

EUT: Wireless Charger

Model: V2

FCC ID: 2AYQV-SSTWCH1

1. Power transfer frequency range is 110 to 205 kHz
2. Output power from each primary coil is less 15 Watts
3. The system consists a single coil
4. Client device is placed directly in contact with the transmitter
5. Mobile exposure conditions only. The device is an AC powered wireless charger and would be more than 20 cm away from user
6. The aggregate H-field strengths was less than 50% of the applicable MPE limit

Title: Aggregate leakage fields
 Operator: Howard Huang
 EUT Type: Wireless Charger
 EUT Condition: EUT is continuously charging accessory
 Comments: Fundamental worst case emission
 Date: 6/3/2021
 Temp: 72
 Hum: 38
 Frequency (kHz): 146

a	b	c	d	e	f	g	h		
Max Reading dBuV	Loop Factor	Cable loss	dBpT	dBuA/m	Reading A/m	MPE Limit A/m	Margin	regulatory base	Distance cm
60.97	26.57	0	87.54	85.54	0.01892344	0.815	-0.80	FCC(50%)	15 & 20

E-Field reading 6.7 V/m

Formula used -----

$$dBpT_{(d)} = dBuV_{(a)} + dBpT/uV_{(b)} + \text{cable loss}_{(c)}$$

$$dBuA/m_{(e)} = dBpT_{(d)} - 2$$

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	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	30

Table 1 of Section 1.1310

50%
1.63 0.815