

# 1.1 Radio Frequency Exposure Compliance

## 1.1.1 Electromagnetic Fields

FCC ID: ZBCWD-286B

RESULT:

Pass

### Test Specification

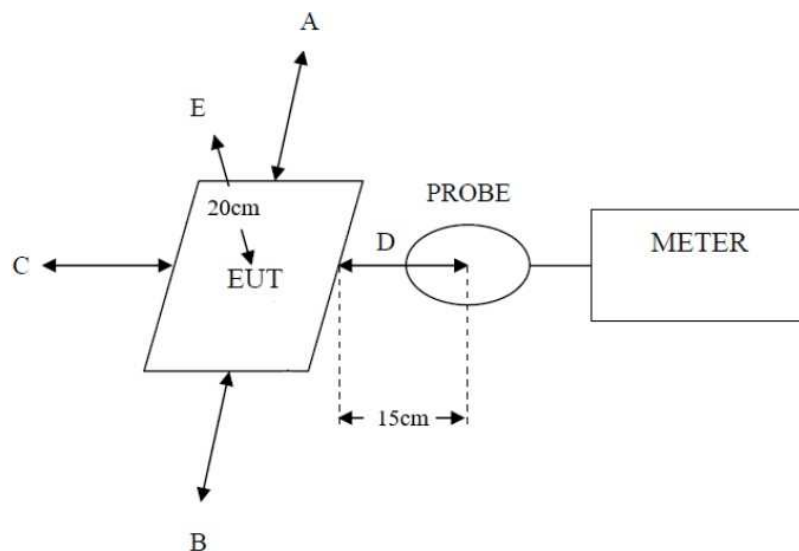
Test standard : CFR47 FCC Part 2: Subpart J Section 1.1310  
 FCC CFR 47 Part 1(1.1310) KDB 680106 D01 v03

According to the table 1 of FCC Part 2.1310, the reference limit as below:

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

f = frequency in MHz \* = Plane-wave equivalent power density

Test Setup:



**Test Result:**

**For base(110.5kHz-205kHz)**

Table: H-Field Strength at 15 cm from the edges surrounding the EUT and 20cm from the top surface of the EUT

EUT Test Mode	Measured H-Field Strength Values (A/m)					50% Limit (A/m)	Limit (A/m)	Result
	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E			
Device working at the maximum power	0.1672	0.1731	0.1528	0.1650	0.1485	0.815	1.63	Pass

**For apple iphone charger(360kHz)**

Table: H-Field Strength at 15 cm from the edges surrounding the EUT and 20cm from the top surface of the EUT

EUT Test Mode	Measured H-Field Strength Values (A/m)					50% Limit (A/m)	Limit (A/m)	Result
	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E			
Device working at the maximum power	0.2896	0.2696	0.2488	0.2632	0.2608	0.815	1.63	Pass

For an exposure waveform consisting of multiple frequencies, a test for compliance of exposure waveform shall satisfy the following criterion

EX:  
 base + apple iphone charger Max H-field  
 (base Max H-field (A/m) + apple watch charger Max H-field (A/m)) / Limit (A/m) = Max H-field  
 -> (0.1731 + 0.2896) / 1.63 = 0.2839 ≤ 1

RF Exposure				
Description	Manufacturer	Model	Serial No.	Cal. Until
"Van der Hoofden" test head	Schwarzbeck	VDHH 9502	159	2022-08-16
EMF Tester	NARDA	ELT-400	D-0009/D-0010	2022-01-15