

1 Safety Human Exposure

1.1 Radio Frequency Exposure Compliance

1.1.1 Electromagnetic Fields

RESULT:
Pass

For WPT: DTR MARVEL WL CHARGE PAD, WFH WIRELESS CHARGING PAD

For FCC Part: Part 2.1091

Test Specification

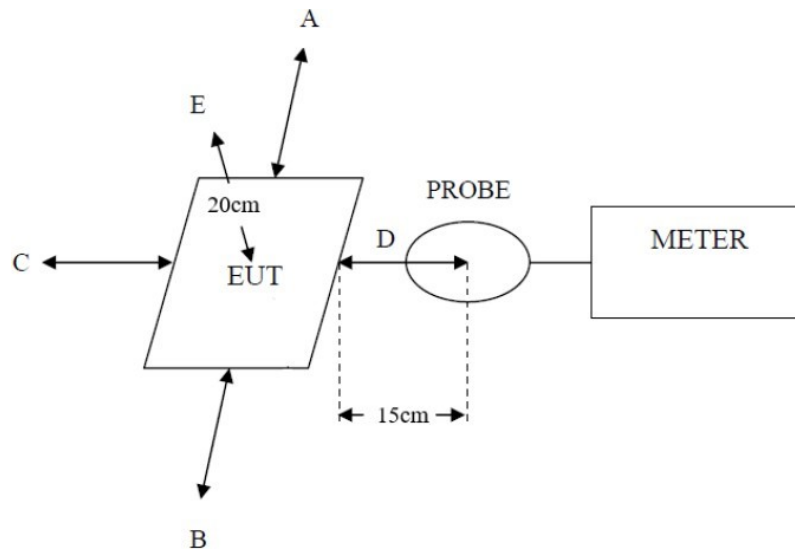
 Test standard : CFR47 FCC Part 2: Subpart J Section 1.1310
 FCC CFR 47 Part 1(1.1310) KDB 680106 D01 v03

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 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

Test Setup:


The EUT does comply with item 5(b) of KDB 680106 D01 v03

- 1) Power transfer frequency is less than 1MHz
- 2) Output power from each primary coil is less than or equal to 15 watts.
- 3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pair of coils.
- 4) Client device is inserted in or placed directly in contact with the transmitter.
- 5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)
- 6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Test equipment list

RF Exposure				
Description	Manufacturer	Model	Serial No.	Calibrated until
H-Field Probe 100 cm ² SENSOR	narda	D-0010	BN 2300/90.10	20.05.2021
MAGNETIC FIELD HiTESTER ELT-400	narda	D-0009	BN 2304/03	20.05.2021

Test Result:

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

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			
0.241	0.191	0.098	0.155	0.201	0.815	1.63	Pass