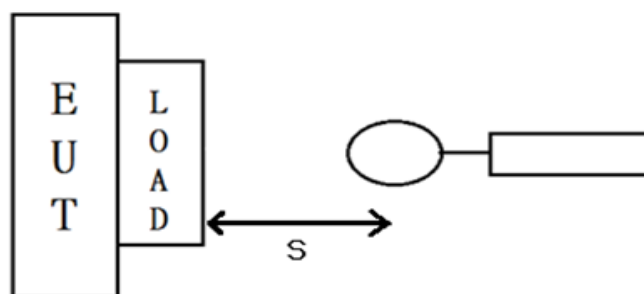
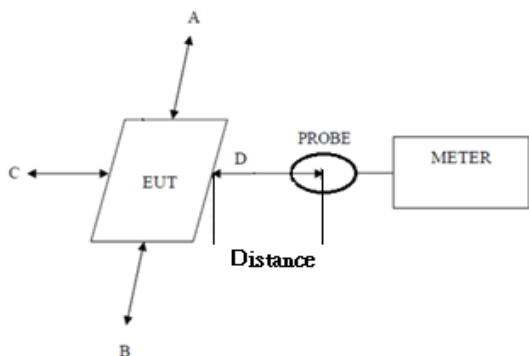


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3.5 RF Exposure Compliance Requirements

Test standard : FCC KDB Publication
680106 D01 RF Exposure Wireless Charging App v03

Probe from EUT Side



All of the following requirements as below:

- (1) Power transfer frequency is less than 1 MHz.
Explanation: The power transfer frequency range is 100~148kHz. (Refer to user manual.)
- (2) Output power from each primary coil is less than or equal to 15 watts.
Explanation: The max. output power is 7.5W. (Refer to user manual.)
- (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 pairs of coils.
Explanation: The transfer system has only single primary and secondary coils.
- (4) Client device is placed directly in contact with the transmitter.
Explanation: Compliance.
- (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
Explanation: Compliance.
- (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.
Explanation: Compliance, please refer to page 18 of this report.



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Limit:

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 Exposures				
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
300-1500	/	/	f/300	6
1500-100,000	/	/	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
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30
F=frequency in MHz *=Plane-wave equivalent power density RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).				



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Test Result:

QST015B_FULL					
Operation Frequency (MHz)	Test Distance (cm)	Probe from EUT Side	E-Field strength (V/m)	H-Field strength (A/m)	H-Field strength (A/m) (for 50% limit)
0.127~0.128	15	A	5.004	0.364	0.364
0.127~0.128	15	B	6.57	0.781	0.781
0.127~0.128	15	C	7.732	0.656	0.656
0.127~0.128	15	D	7.97	0.597	0.597
0.127~0.128	20	S	0.77	0.702	0.702
Limit			614	1.63	0.815

QST015B_HALF					
Operation Frequency (MHz)	Test Distance (cm)	Probe from EUT Side	E-Field strength (V/m)	H-Field strength (A/m)	H-Field strength (A/m) (for 50% limit)
0.127~0.128	15	A	4.525	0.343	0.343
0.127~0.128	15	B	6.539	0.787	0.787
0.127~0.128	15	C	4.328	0.622	0.622
0.127~0.128	15	D	6.066	0.520	0.520
0.127~0.128	20	S	0.775	0.575	0.575
Limit			614	1.63	0.815

20191108-QST015B_10% LOAD (change load 5V 0.1A)					
Operation Frequency (MHz)	Test Distance (cm)	Probe from EUT Side	E-Field strength (V/m)	H-Field strength (A/m)	H-Field strength (A/m) (for 50% limit)
0.127~0.128	15	A	3.123	0.323	0.323
0.127~0.128	15	B	4.563	0.542	0.542
0.127~0.128	15	C	4.331	0.500	0.500
0.127~0.128	15	D	4.726	0.507	0.507
0.127~0.128	20	S	0.965	0.526	0.526
Limit			614	1.63	0.815

Note: The test compliance with RF exposure requirements.