



RF Exposure Evaluation

FCCID: 2A9NX-OJD-108

1 Measuring Standard

KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01

2 Requirements

According to KDB680106 clause 5,b

(1) Power transfer frequency is less than 1 MHz.

--Yes, the device operated in the frequency range from 115 KHz to 205KHz

(2) Output power from each primary coil is less than or equal to 15 watts. --Yes, the maximum output power of the primary coil is 15 W

(3) The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coli is present, the coil pairy may be powered on at the same time. --Yes, the transfer system includes have multiple primary coils and clients that are able to detect and allow coupling be powered on at the same time.

(4) Client device is placed directly in contact with the transmitter. --Yes, Client device is placed directly in contact with the transmitter

(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion). --Yes

(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. --Yes, the EUT field strength level are 50% x MPE limit.

3 Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human

exposure to radio frequency (RF) radiation as specified in 1.1307(b) Limits for Maximum Permissible Exposure (MPE)



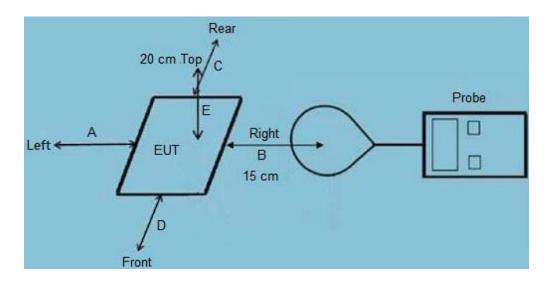
requency range Electric field strength (MHz) (V/m)		Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
	(A) Limits for Occ	upational/Controlled Ex	posures	
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	1	f/300	6
1500-100,000	/	/	5	6
	(B) Limits for Genera	Population/Uncontrolle	d 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	1.0	30

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*=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).

4 Test Setup



5 Test Procedure

1) The RF exposure test was performed in anechoic chamber.

2) The measurement probe was placed at test distance (15 cm from all sides and 20 cm from the top) which is between the edge of the charger and the geometric center of probe.

3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed

4) The EUT was measured according to the dictates of KDB 680106 D01v03r01 Remark: The EUT's test position A, B, C, D and E is valid for the E and H field measurements



6. Measurement Uncertainty

(95% confidence levels, k=2)

Item	Uncertainty
Uncertainty for H-Field	2.36dB
Uncertainty for E-Field	2.42dB
Uncertainty for conducted RF Power	0.62dB
Uncertainty for temperature	0.2°C
Uncertainty for humidity	1.1%
Uncertainty for DC and low frequency voltages	0.06%

7. Equipment list

Test Equipment	Manufacturer	Model No.	SN.	Last	Calibrated
				calibration	until
Electric and	Narda	EHP-200A	N03565	Aug 29,2023	Aug 28,2024
Magnetic					
field					
probe-Analyzer					



7 Placement Mode 1 Photo



8 Test mode

Mode 1	Mobile phone	wireless	charging	(5W)	
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- Mode 2 Mobile phone wireless charging (7.5W)
- Mode 3 Mobile phone wireless charging (10W)
- Mode 4 Mobile phone wireless charging (15W)



9 Necessary accessories

l t	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
1	Adapter	XIAOMI	MDY-11-EB	N/A	This is for testing only in report.
2	Phone	Apple	iPone 13	N/A	This is for testing only in report.

1 Test Result

Placement Mode 4(Worst)

E-Filed Strength at 15 cm from the edges surrounding the EUT (V/m)

Battery power	Frequency Range(MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (V/m)	50%M PE limit (V/m)	Result
1%	0.115-0.205	1.39	1.46	0.56	0.43	614	307	PASS
50%	0.115-0.205	1.48	1.32	0.43	0.60	614	307	PASS
95%	0.115-0.205	1.27	1.54	0.41	0.56	614	307	PASS
Stand-by	0.115-0.205	1.41	1.33	0.59	0.60	614	307	PASS

E-Filed Strength at 20 cm from the top of the EUT (V/m)

Battery	Frequency	Test	Limits	50%MPE	Result	
power	Range(MHz)	Position E	(V/m)	limit(V/m)	Result	
1%	0.115-0.205	1.22	614	307	PASS	
50%	0.115-0.205	1.28	614	307	PASS	
95%	0.115-0.205	1.33	614	307	PASS	
Stand-by	0.115-0.205	1.46	614	307	PASS	

H-Filed Strength at 15 cm from the edges surrounding the EUT (A/m)



	attery ower	Frequency Range(MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)	50%MP E limit (A/m)	Result
	1%	0.115-0.205	0.60	0.58	0.66	0.61	1.63	0.815	PASS
5	50%	0.115-0.205	0.58	0.57	0.65	0.60	1.63	0.815	PASS
9	95%	0.115-0.205	0.61	0.63	0.58	0.61	1.63	0.815	PASS
Sta	ind-by	0.115-0.205	0.62	0.62	0.60	0.63	1.63	0.815	PASS

H-Filed Strength at 20 cm from the top of the EUT (A/m)

Battery	Frequency	Test	Limits	50%MPE limit	Deput	
power	Range(MHz)	Position E	(A/m)	(A/m)	Result	
1%	0.115-0.205	0.48	1.63	0.815	PASS	
50%	0.115-0.205	0.42	1.63	0.815	PASS	
95%	0.115-0.205	0.46	1.63	0.815	PASS	
Stand-by	0.115-0.205	0.59	1.63	0.815	PASS	

Dukelin Tested by: _____

Reviewed by: Jupping

*****END OF THE REPORT****

Flux Compliance Service Laboratory