

Report No.: DDT-R21120820-26E02

■Issued Date: May 20, 2022

RF EXPOSURE REPORT

FOR

Applicant	:	KREAFUNK APS	
Address	:	Klamsagervej 35 A, st.8230 Åbyhøj, Denmark	
Equipment under Test	:	Magnetic Power bank Wireless Charger	
Model No.	•	OCHARGE QI	
Trade Mark	4	KREAFUNK	
FCC ID	÷	2ACVC-TOCHARGEQI	
Manufacturer	:	Dongguan Lvdong Technology Company Ltd.	
Address	:	3rd Floor, Building D, Zhongchuang Intelligent Park, No.1 Second Sen Hu Road, Bihu Avenue, FenggangTown, Dongugan City, China	

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

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Test Report Declare

Applicant	:	KREAFUNK APS	
Address		Klamsagervej 35 A, st.8230 Åbyhøj, Denmark	
Equipment	:	lagnetic Power bank Wireless Charger	
Model No.	:	toCHARGE QI	
Trade Mark	:	KREAFUNK ®	
Manufacturer		Dongguan Lvdong Technology Company Ltd.	
Address	:	3rd Floor, Building D, Zhongchuang Intelligent Park, No.1 Second Sen Hu Road, Bihu Avenue, FenggangTown, Dongugan City, China	

Assess Standard Used: FCC CFR 47 part1, 1.1307(b), 1.1310; KDB 680106 D01 RF Exposure Wireless Charging App v03r01.

We Declare:

The equipment described above is assessed by Dongguan Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No.:	DDT-R21120820-26E02	(8)	(9)
Date of Receipt:	Jan. 21, 2022	Date of Test:	Jan. 21, 2022 ~ May 18, 2022

Prepared By:

Sam Li/Engineer

Damon Hu/EMC Manager

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Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
	Initial issue	May 20, 2022	(8)

1. General Information

1.1. Description of equipment

EUT* Name	:	: Magnetic Power bank Wireless Charger			
Model Number	:	toCHARGE QI			
EUT function description	:	Please reference user manual of this device			
Power Supply	: 8	Input: DC powered by an external adapter or a built-in 3.85V lithium battery. Output: 15W Max.			
Wireless charging Operation frequency		110 kHz - 205 kHz			
Antenna Type	:	Inductive loop coil antenna			
Sample Type	:	N/A			
Sample Number	:	N/A			

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Note: EUT is the abbreviation of equipment under test.

1.2. Accessories of EUT

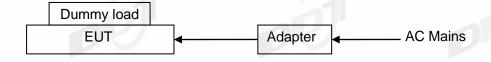
Description of Accessories	Manufacturer	Model number	Description	Remark
N/A ®	N/A	N/A	N/A ®	N/A

1.3. Assistant equipment used for test

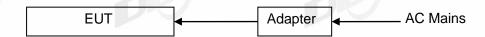
Assistant equipment	Manufacturer	Model number or Type	Description	Other
Dummy load	N/A	N/A 🚳	N/A	⊚ N/A
Mobile phone	HUAWEI	VOG-AL00	N/A	N/A

1.4. Block diagram of EUT configuration for test

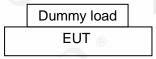
For mode 1: AC charge+Tx mode (5W load, 10W load, 15W load):



For mode 2: AC charge+Standby mode:



For mode 3: Tx mode (5W load, 10W load, 15W load):



For mode 4: Standby mode:



Note: Scan with mode 1, mode 2, mode 3 and mode 4, the worst case is mode 3 Tx mode (15W load) and recorded in this report, since the mode 3 is portable mode and the minimum test distance is 0 cm.

1.5. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City,

Guangdong Province, China, 523808

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, G-20118

2. Equipment Used During Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Isotropic EM Field Probe	Wavecontrol	WP400	19SN0986	Apr. 08, 2022	1 Year

3. Method of Measurement

3.1. Applicable standard

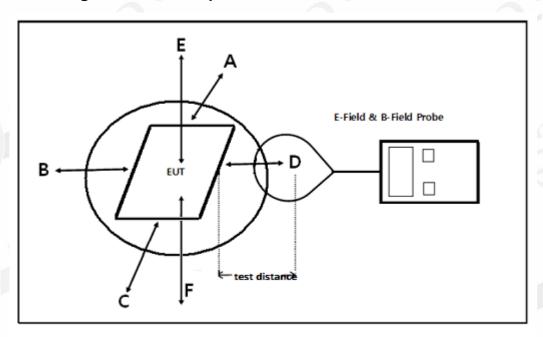
According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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According to §1.1310 and §2.1091 RF exposure is calculated.

According KDB 680106 D01 RF Exposure Wireless Charging App v03r01.

3.2. Block diagram of test setup



Note: Due to installation limitations no tests from the underside of the charging device (Test Position F) are required. The test position F is required when the distance is 0 cm for partable device.

3.3. Test procedure

- a) The RF exposure test was performed in shielded chamber.
- b) The measurement probe was placed at test distance (0 cm, 2 cm, 4 cm, 6 cm, 8 cm, 10 cm) which is between the edge of the charger and the geometric centre of probe.
- c) The measurement probe used to search of highest strength.
- d) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E, F) were completed.
- e) The EUT were measured according to the dictates of KDB 680106 D01 RF Exposure Wireless Charging App v03r01.

3.4. Equipment approval considerations:

The EUT does comply with section 5 b) of KDB 680106 D01 RF Exposure Wireless Charging App v03r01.

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

Yes; the device operates in the frequency range from 110 kHz - 205 kHz

- (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 coil is present, the coil pairs may be powered on at the same time. Yes.
- (4) Client device is placed directly in contact with the transmitter.
 Yes.
- (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

No; the EUT is for portable exposure conditions.

(6) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.

Yes; EUT was evaluated for portable exposure condition, and H-field measurements for each edge/top surface of the host/client pair at every 2 cm, starting from as close as possible out to 10 cm

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
	(A) Limits for C	occupational/Controlled Expo	osure	
0.3-3.0	614	1.63	*100	6
3.0-30	1842/	4.89/f	*900/f2	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 Gene	ral Population/Uncontrolled	Exposure	
0.3-1.34	614	1.63	*100	30
1.34-30	824/	2.19/f	*180/f2	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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

3.5. E and H Field Strength

Test mode for wireless charger:

Dummy load: 10W Load, 5W Load and 7.5W Load mode

Mobile phone has been charged at 1%, 50% and 99% battery electric quantity

E-Filed Strength at 0 cm from the edges surrounding the EUT and 0 cm above the top surface of the EUT (V/m)

Toot Docition	Pro	Limits		
Test Position	99%	1%	50%	Test (V/m)
Α	0.62	1.10	0.19	614
В	1.19	0.88	0.84	614
С	1.03	1.32	1.35	614
D	0.60	1.05	1.12	614
E	0.85	2.30	1.83	614
F	1.50	4.67	4.10	614

H-Filed Strength at 0 cm from the edges surrounding the EUT and 0 cm above the top surface of the EUT (A/m)

Toot Docition	Pro	Limits		
Test Position	99%	1%	50%	Test (A/m)
Α	0.30	0.29	0.31	1.63
В	0.07	0.14	0.11	1.63
С	0.12	0.21	0.20	1.63
D a	0.05	0.09	0.14	1.63
E	0.16	0.08	0.20	1.63
¥F.	0.33	0.41	0.59	1.63

E-Filed Strength at 2 cm from the edges surrounding the EUT and 2 cm above the top surface of the EUT (V/m)

Test Position	Pro	Probe Measure Result(V/m)		
Test Position	99%	1%	50%	Test (V/m)
Α	0.57	0.88	1.01	614
В	0.53	0.69	0.81	614
С	0.54	0.89	0.98	614
D	0.62	0.75	0.91	614
E	0.62	1.35	1.20	614

H-Filed Strength at 2 cm from the edges surrounding the EUT and 2 cm above the top surface of the EUT (A/m)

Test Position	Pro	Probe Measure Result(A/m)		
Test Fosition	99%	1%	50%	Test (A/m)
Α	0.10	0.06	0.16	1.63
В	0.07	0.06	0.08	1.63
_ ® C	0.08	0.06	0.11	1.63
D	0.05	0.04	0.07	1.63
E	0.06	0.05	0.11	1.63

E-Filed Strength at 4 cm from the edges surrounding the EUT and 4 cm above the top surface of the EUT (V/m)

Test Position	Probe Measure Result(V/m)			Limits
Test Position	99%	1%	50%	Test (V/m)
А	0.59	0.66	0.94	614
В	0.57	0.57	0.88	614
С	0.57	0.64	0.89	614
D	0.55	0.62	1.21	614
Enley	0.55	0.93	1.00	614

H-Filed Strength at 4 cm from the edges surrounding the EUT and 4 cm above the top surface of the EUT (A/m)

Test Position	Pro	be Measure Result(Limits	
Test Fosition	99%	1%	50%	Test (A/m)
Α	0.07	0.05	0.04	1.63
В	0.05	0.05	0.05	1.63
С	0.07	0.05	0.06	1.63
D	0.04	0.04	0.04	1.63
® E	0.06	0.05	0.04	1.63

E-Filed Strength at 6 cm from the edges surrounding the EUT and 6 cm above the top surface of the EUT (V/m)

Test Position	Prol	Probe Measure Result(V/m)		
Test Fosition	99%	1%	50%	Test (V/m)
A ®	0.51	<u>0.57</u>	0.65	614
В	0.48	0.53	0.58	614
С	0.51	0.57	0.63	614
D	0.49	0.58	0.59	614
E	0.51	0.72	0.88	614

H-Filed Strength at 6 cm from the edges surrounding the EUT and 6 cm above the top surface of the EUT (A/m)

Test Position	Probe Measure Result(A/m)			Limits
Test Position	99%	1%	50%	Test (A/m)
Α	0.05	0.05	0.04	1.63
В	0.04	0.05	0.04	1.63
С	0.04	0.05	0.05	1.63
D	0.04	0.04	0.05	1.63
E	0.05	0.05	0.05	1.63

E-Filed Strength at 8 cm from the edges surrounding the EUT and 8 cm above the top surface of the EUT (V/m)

Toot Docition	Probe Measure Result(V/m) L			Limits
Test Position	99%	1%	50%	Test (V/m)
Α	0.46	0.53	0.06	_@ 614
В	0.47	0.51	0.60	614
С	0.46	0.52	0.61	614
D	0.46	0.53	0.63	614
E	0.48	0.74	0.69	614

H-Filed Strength at 8 cm from the edges surrounding the EUT and 8 cm above the top surface of the EUT (A/m)

, , , , ,				
Test Position	Pro	Probe Measure Result(A/m)		
Test Position	99%	1%	50%	Test (A/m)
Α	0.05	0.05	0.05	1.63
В	0.04	0.05	0.04	1.63
С	0.04	0.05	0.05	1.63
D	0.04	0.04	0.05	1.63
® E	0.04	0.05	0.06	1.63

E-Filed Strength at 10 cm from the edges surrounding the EUT and 10 cm above the top surface of the EUT (V/m)

Toot Docition	Prob	Probe Measure Result(V/m)		
Test Position	99%	1%	50%	Test (V/m)
A ®	0.44	0.46	0.69	614
В	0.45	0.44	0.63	614
С	0.44	0.51	0.62	614
D	0.44	0.45	0.58	614
E	0.47	0.52	0.64	614

H-Filed Strength at 10 cm from the edges surrounding the EUT and 10 cm above the top surface of the EUT (A/m)

Test Position	Pro	Probe Measure Result(A/m) Lim		
Test Position	99%	1%	50%	Test (A/m)
A	0.04	0.04	0.06	1.63
В	0.03	0.04	0.05	1.63
С	0.04	0.04	0.06	1.63
D	0.03	0.04	0.04	1.63
E	0.04	0.04	0.05	1.63

E-Filed Strength at 15 cm from the edges surrounding the EUT and 20 cm above the top surface of the EUT (V/m)

Toot Docition	Probe Measure Result(V/m)			Limits
Test Position	99%	1%	50%	Test (V/m)
Α	0.44	0.40	0.45	614
В	0.45	0.40	0.44	614
С	0.45	0.40	0.46	614
D	0.50	0.41	0.46	614
Enle	0.46	0.41	0.48	614

H-Filed Strength at 15 cm from the edges surrounding the EUT and 20 cm above the top surface of the EUT (A/m)

Toot Docition	Probe Measure Result(A/m)			Limits
Test Position –	99%	1%	50%	Test (A/m)
Α	0.04	0.04	0.03	1.63
В	0.03	0.04	0.03	1.63
С	0.04	0.04	0.04	1.63
D	0.03	0.04	0.03	1.63
® E	0.04	0.04	0.03	1.63