



Report No.:	8326EU011613W2
Applicant:	Hong Kong Etech Groups Ltd.
Address:	16/F, Block C, 2nd Phase of Central Avenue, Haihong Industrial Area, Xixiang, Baoan, Shenzhen, China
Product Name:	Life is for fun Series Foldable 3-in-1 Magnetic Charger
Model No.:	EWL-24077-A (refer to clause 2.4)
Trademark:	MINISO
FCC ID:	2A3ZO-24077A
Test Standard(s):	47 CFR Part 1 Subpart I Section 1.1310 47 CFR Part 2, Subpart J, Section 2.1091
Date of Receipt:	Jan. 16, 2025
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ISSUED BY: SHENZHEN EU TESTING LABORATORY LIMITED

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2 General Information

2.1 Applicant Information

Applicant	Hong Kong Etech Groups Ltd.
Address	16/F, Block C, 2nd Phase of Central Avenue, Haihong Industrial Area, Xixiang, Baoan, Shenzhen, China

2.2 Manufacturer Information

Manufacturer	Hong Kong Etech Groups Ltd.
Address	16/F, Block C, 2nd Phase of Central Avenue, Haihong Industrial Area, Xixiang, Baoan, Shenzhen, China

2.3 Factory Information

Address 16/F, Block C, 2nd Phase of Central Avenue, Haihong Industrial Area, Xixiang,	
Baoan, Shenzhen, China	

2.4 General Description of E.U.T.

Product Name	Life is for fun Series Foldable 3-in-1 Magnetic Charger	
Model No. Under Test	EWL-24077-A	
List Model No.	ECL1-240033A	
Description of Model differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in appearance color and model name. (this information provided by the customer)	
Rating(s)	Input: 5V===3A/9V===3A Wireless phone charging: 15W MAX Wireless watch charging: 2.5W MAX Wireless earphone charging: 5W MAX Total output: 22.5W MAX	
Product Type	Mobile Portable Fix Location	
Test Sample No.	-1/2(Normal Sample), -2/2(Engineering Sample)	
Hardware Version	V1.0	
Software Version	V1.0	
Remark	For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.	

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2.5 Technical Information of E.U.T.

Network and	
Wireless Connectivity	Wireless Power Transfer (WPT)

The requirement for the following technical information of the EUT was tested in this report:

Technology WPT	
Operating Frequency	115 - 150KHz
Modulation Type	FSK
Antenna Type	Inductive Loop Coil Antenna
Antenna Gain(Peak)	0 dBi
Remark	The above information are declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant.



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3 Test Summary

3.1 Test Standard

The tests were performed according to following standards:

No.	Identity	Document Title
1	47 CFR Part 1 Subpart I Section 1.1310	Radio frequency radiation exposure limits.
2	47 CFR Part 2, Subpart J, Section 2.1091	Radiofrequency radiation exposure evaluation: mobile devices
3	KDB 680106 D01v04	RF exposure consideration for low power consumer wireless power transfer applications.
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Remark:

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

3.2 Test Verdict

No.	Description	FCC Part No.	Verdict	Remark
1	RF Exposure Evaluation	FCC 1.1310 FCC 2.1091 KDB 680106 D01 Wireless Power Transfer v04	Pass	

3.3 Test Laboratory

Test Laboratory	Shenzhen EU Testing Laboratory Limited
Address	101, Building B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China
Designation Number	CN1368
Test Firm Registration Number	952583

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4 Test Configuration

4.1 Test Environment

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	30% to 60%				
Atmospheric Pressure	86 kPa to 106 kPa				
Temperature	NT (Normal Temperature)	+15℃ to +35℃			
Working Voltage of the EUT	NV (Normal Voltage)	AC 120V/60Hz for adapter			

4.2 Test Equipment

Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
Electric and Magnetic Field Probe - Analyzer	Narda	EHP-200A	EE-405	2024/02/13	2025/02/14

4.3 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was prescanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned bellow was evaluated respectively.

No.	Description	Remark
TM1	Wireless Output (2.5W)	
TM2	Wireless Output (5W)	
TM3	Wireless Output (15W)	
TM4	Wireless Output (2.5W) + (5W)	
TM5	Wireless Output (2.5W) + (15W)	
TM6	Wireless Output (5W) + (15W)	
TM7	Wireless Output (2.5W) + (5W) + (15W)	
TM14	Standby	
Note:		

1. EUT supports empty load, half load, full load working at the same time, so the all conditions have been tested. It is found that TM7 full load is the worst mode, and the data in the report only reflects the worst mode.

4.4 Measurement Uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test Item	Measurement Uncertainty
Magnetic field measurements(3kHz~10MHz)	±14.6%
Electric field measurements(3kHz~10MHz)	±17.3%

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5 RF Exposure Evaluation

5.1 Test Requirement

§1.1310: 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), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter.

Table 1 to §1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

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				

F=frequency in MHz

30-300

300-1500

1500-100,000

*=Plane-wave equivalent power density

27.5

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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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TRF No.: FCC MPE_WPT (A02)

0.2

f/1500

1.0

30

30

30



5.2 Test Setup



- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (20cm) which is between the edge of the charger and the geometric center of probe.
- 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.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v04.

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5.1 Evaluation Result

Test Condition: Test Mode 7 operating with client device (1% battery status of client device)

Test Desition	E-field (V/m)			H-field (A/m)				
Test Position	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)		
Тор	4.8613			0.1416				
Bottom	4.4794			0.2709				
Front	2.8578	614	614	614 0.94%	0 940/	0.2529	1.62	14 1094
Rear	4.2442	014	0.04%	0.2861	1.05	14.1076		
Left	2.4817			0.1835				
Right	3.9643			0.0278				

Test Condition: Test Mode 7 operating with client device (50% battery status of client device)

Test Desition	E-field (V/m)			H-field (A/m)		
	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Тор	5.0558			0.1137		
Bottom	4.2876			0.2165		
Front	1.9292	614	0 8004	0.2026	1.63	12 940/
Rear	3.0809	014	0.00%	0.2295	1.05	13.04 %
Left	2.7142			0.1461		
Right	4.9243			0.0220		

Test Condition: Test Mode 7 operating with client device (99% battery status of client device)

Test Desition	E-field (V/m)			H-field (A/m)		
Test Position	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Тор	5.2261			0.1418		
Bottom	4.7333			0.2156		
Front	2.2242	614	0.82%	0.0610	1.63	20 60%
Rear	3.1860	014	0.02 /0	0.0274	1.05	20.00 %
Left	3.1515			0.1105		
Right	2.7648			0.0242		

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ANNEX A TEST SETUP PHOTOS





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STATEMENT

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.

2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.

3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.

4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.

5. The test data and results are only valid for the tested samples provided by the customer.

6. This report shall not be partially reproduced without the written permission of the laboratory.

7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

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