

TEST REPORT

Report No.: 8430EU011520W2

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: VALE 3in1 Foldable Magnetic Wireless Charger

Model No.: MSWC-3IN1 (refer to clause 2.4)

Trademark: N/A

FCC ID: 2A3ZO-MSWC

Test Standard(s): 47 CFR Part 1 Subpart I Section 1.1310
47 CFR Part 2, Subpart J, Section 2.1091

Test Result: Pass

Date of Receipt: Apr. 15, 2026

Test Date: Apr. 16, 2026 – May 08, 2026

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ISSUED BY:

SHENZHEN EU TESTING LABORATORY LIMITED



Prepared by:

Mikey Zhu/ Engineer

Reviewed and Approved by:

Sally Zhang/ Manager

Revision Record

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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

Factory	N/A
Address	N/A

2.4 General Description of E.U.T.

Product Name	VALE 3in1 Foldable Magnetic Wireless Charger
Model No. Under Test	MSWC-3IN1
List Model No.	200086, ECL2-260163A
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: 9V $\overline{=}$ 3A Smartphone output: 5W /7.5W /10W /15W Watch output: 2.5W Earbud output: 3W
Product Type	☒ Mobile ☐ Portable ☐ Fix Location
Test Sample No.	-1/2(Normal Sample), -2/2(Engineering Sample)
Hardware Version	N/A
Software Version	V1.0
Remark	For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.5 Technical Information of E.U.T.

Network and Wireless Connectivity	Wireless Power Transfer (WPT)
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The requirement for the following technical information of the EUT was tested in this report:

Technology	WPT		
Operating Frequency	Smartphone	110.1kHz~205kHz	5W /7.5W /10W /15W
	Earbud	110.1kHz~205kHz	3W
	Watch	335kHz	2.5W
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.		

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.

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

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°C to +35°C
Working Voltage of the EUT	NV (Normal Voltage)	120 VAC, 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	2025/02/14	2026/02/13

4.3 Description of Support Unit

No.	Title	Manufacturer	Model No.	Serial No.
1	Adapter	UGREEN	CD289	EMC-PJ-054
2	Wireless Charging Load	YBZ	ID-ZWX	EMC-PJ-050
3	Wireless Charging Load	YBZ	F18	LVD-PJ-003
4	Wireless Charging Load	YBZ	F15	LVD-PJ-004

4.4 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning 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	Adapter + Wireless Output (2.5W) for Watch (335kHz)	
TM2	Adapter + Wireless Output (3W) for Earbud (110.1-205kHz)	
TM3	Adapter + Wireless Output (5W) for Phone (110.1-205kHz)	
TM4	Adapter + Wireless Output (7.5W) for Phone (110.1-205kHz)	
TM5	Adapter + Wireless Output (10W) for Phone (110.1-205kHz)	
TM6	Adapter + Wireless Output (15W) for Phone (110.1-205kHz)	
TM7	Adapter + Wireless Output (2.5W) for Watch (335kHz) + (3W) for Earbud (110.1-205kHz)	
TM8	Adapter + Wireless Output (2.5W) for Watch (335kHz) + (5W) for Phone (110.1-205kHz)	
TM9	Adapter + Wireless Output (2.5W) for Watch (335kHz) + (7.5W) for Phone (110.1-205kHz)	
TM10	Adapter + Wireless Output (2.5W) for Watch (335kHz) + (10W) for Phone (110.1-205kHz)	
TM11	Adapter + Wireless Output (2.5W) for Watch (335kHz) + (15W) for Phone (110.1-205kHz)	

TM12	Adapter + Wireless Output (3W) for Earbud (110.1-205kHz) + (5W) for Phone (110.1-205kHz)	
TM13	Adapter + Wireless Output (3W) for Earbud (110.1-205kHz) + (7.5W) for Phone (110.1-205kHz)	
TM14	Adapter + Wireless Output (3W) for Earbud (110.1-205kHz) + (10W) for Phone (110.1-205kHz)	
TM15	Adapter + Wireless Output (3W) for Earbud (110.1-205kHz) + (15W) for Phone (110.1-205kHz)	
TM16	Adapter + Wireless Output (2.5W) for Watch (335kHz) + (3W) for Earbud + (5W) for Phone (110.1-205kHz)	
TM17	Adapter + Wireless Output (2.5W) for Watch (335kHz) + (3W) for Earbud + (7.5W) for Phone (110.1-205kHz)	
TM18	Adapter + Wireless Output (2.5W) for Watch (335kHz) + (3W) for Earbud + (10W) for Phone (110.1-205kHz)	
TM19	Adapter + Wireless Output (2.5W) for Watch (335kHz) + (3W) for Earbud + (15W) for Phone (110.1-205kHz)	Record
TM20	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 TM19 full load is the worst mode, and the data in the report only reflects the worst mode.		

4.5 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%

5 Test Methodology

5.1 Reference Evaluation Method

§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)

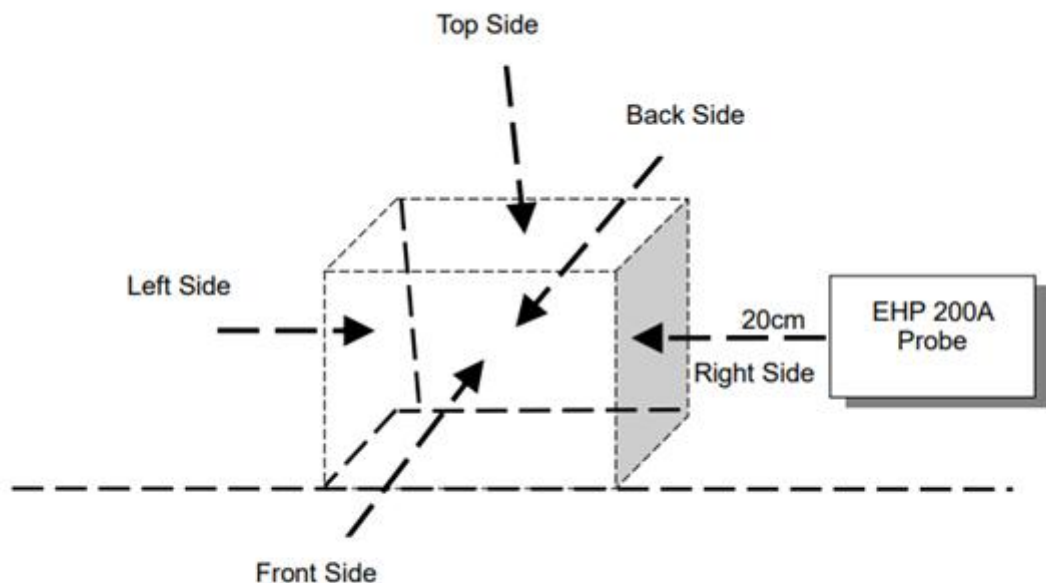
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	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
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).

5.2 Test Setup



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 20cm measured from the center of the probe(s) to the edge of the device.

- 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.
- 3) 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.

5.3 Evaluation Result

Test Condition: Test Mode 19 operating with client device (1% battery status of client device)

Test Position	E-field (V/m)			H-field (A/m)		
	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Top	4.3143	614	0.78	0.2272	1.63	13.94
Bottom	4.7740			0.1472		
Front	2.2564			0.0376		
Rear	3.2529			0.1888		
Left	3.7460			0.0608		
Right	2.6455			0.1176		

Test Condition: Test Mode 19 operating with client device (50% battery status of client device)

Test Position	E-field (V/m)			H-field (A/m)		
	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Top	3.5947	614	0.80	0.1936	1.63	14.04
Bottom	4.8864			0.0664		
Front	3.0396			0.1024		
Rear	2.5743			0.2288		
Left	4.2308			0.0696		
Right	2.4000			0.1632		

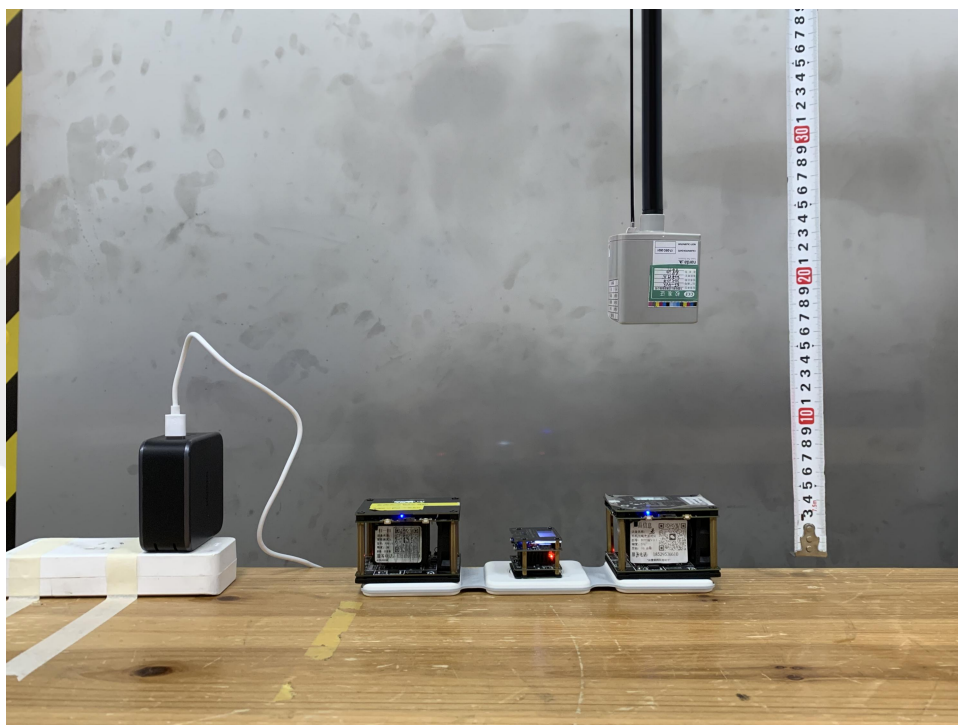
Test Condition: Test Mode 19 operating with client device (99% battery status of client device)

Test Position	E-field (V/m)			H-field (A/m)		
	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Top	4.2016	614	0.80	0.0768	1.63	12.22
Bottom	4.8845			0.1992		
Front	2.9817			0.1720		
Rear	2.0702			0.1336		
Left	3.9286			0.0056		
Right	2.1471			0.1640		

ANNEX A TEST SETUP PHOTOS

PHOTO 1

Test Position: Top



STATEMENT

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