

EcoFlow Inc.

TEST REPORT

SCOPE OF WORK

SAR Assessment– EF-MC-VE-3IN1

REPORT NUMBER

250716073SZN-002

ISSUE DATE

30 September 2025

[REVISED DATE]

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PAGES

7

DOCUMENT CONTROL NUMBER

RF Exposure

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Test Report

Applicant: EcoFlow Inc.
RM 401, Plant #1, Runheng Industrial Zone, Fuhai Street, Bao'an District, Shenzhen, 518000, China

Manufacturer: EcoFlow Inc.
RM 401, Plant #1, Runheng Industrial Zone, Fuhai Street, Bao'an District, Shenzhen, 518000, China

FCC ID: 2A2P9-EFMCVE3IN1
Sample Descriptio: EF Wireless Charging Stand
Product Model No.: EF-MC-VE-3IN1
Brand Name: ECOFLOW, EF ECOFLOW
Electrical Rating: Input: DC 5V3A, 9V3A, 12V3A from adapter
Total Wireless Output: 25W Max.
(iPhone: 15W Max./Apple Watch: 5W Max./AirPods: 5W Max.)

Date Received: 16 July 2025
Date Test Conducted: 16 July 2025 to 03 September 2025

Test Requested: Test for compliance with CFR 47 part 1
Test Method: Environmental evaluation and exposure limit according to FCC
CFR 47 part 1, 1.1307(c) and (d), 1.1310
KDB 680106 D01 Wireless Power Transfer v04

Test Result: Pass
Conclusion: When determining of test conclusion, measurement uncertainty of tests have been considered.

Prepared and Checked By:**Approved By:**

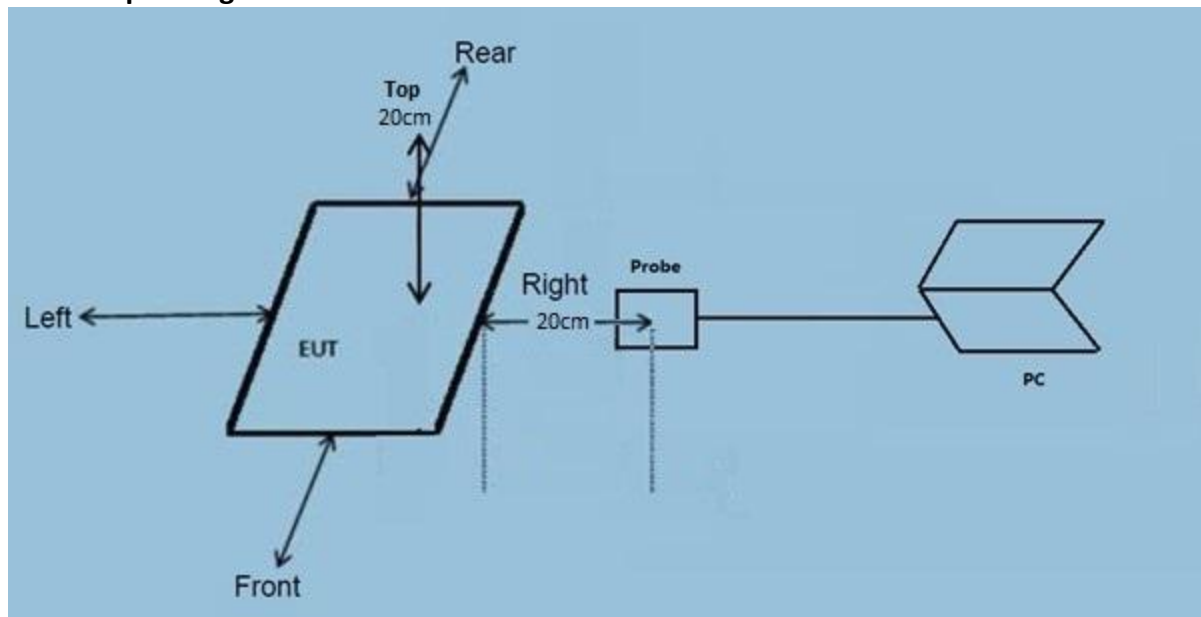
Tony Tang
Engineer

Johnny Wang
Project Engineer
Date: 30 September 2025

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Test Report

Test Setup Configuration



Note

- The RF exposure test is performed in the shield room.
- The test distance is between the edge of the charger and the geometric centre of probe.

Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ186-06	The Magnetic Amplitude and Gradient Probe System	SPEAG	MAGPy-8H3D+E3D	2024-03-07	2026-03-07

This product was tested in the following configuration:

Description	Manufacturer	Detail
Mobile phone	(Provided by Intertek)	Model: A2884
Apple Watch	(Provided by Intertek)	Model: A2980
Airpods	(Provided by Intertek)	Model: A2566

Test Facility

The Semi-Anechoic chamber and shield room used to collect the radiated data and conducted data are Intertek Testing Services Shenzhen Ltd. Longhua Branch and located at 101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, ShenZhen. This test facility and site measurement data have been fully placed on file with File Number: CN1188.

Justification

The EUT was powered by an adapter with AC 120V, 60Hz input during the test. The test system was pre-scanning tested based on the consideration of following EUT operation mode. and only the worst-case data was shown in this report.

For mode 11 to mode 13, Three coils were charging during test, measurements were taken with the client being charged by the one coil and measured 20 cm from four edges and 20 cm from top of the coil firstly. And then repeat these measurements for the other coils one by one.

Pertest mode	Description
Mode 1	Standby mode
Mode 2	iPhone is charging at 1% battery power
Mode 3	iPhone is charging at 50% battery power
Mode 4	iPhone is charging at 99% battery power
Mode 5	Apple Watch is charging at 1% battery power
Mode 6	Apple Watch is charging at 50% battery power
Mode 7	Apple Watch is charging at 99% battery power
Mode 8	Airpods is charging at 1% battery power
Mode 9	Airpods is charging at 50% battery power
Mode 10	Airpods is charging at 99% battery power
Mode 11	iPhone+Apple Watch+Airpods are charging at 1% battery power
Mode 12	iPhone+Apple Watch+Airpods are charging at 50% battery power
Mode 13	iPhone+Apple Watch+Airpods are charging at 99% battery power

Reference Limit:

Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(c) and (d), 1.1310

According to FCC 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.

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3 – 1.34	614	1.63	(100) *	30

Note: * = Plane wave equivalent power density

Test Result:

During test, the iPhone, Apple Watch and AirPods are being charged.

The result for iPhone wireless power transmit part:
H-field strength measurement result at 20 cm:

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
0.360	1% Battery Level	0.01	0.01	0.01	0.02	0.01	1.63
0.360	50% Battery Level	0.01	0.01	0.01	0.01	0.01	1.63
0.360	99% Battery Level	0.01	0.01	0.01	0.01	0.01	1.63
0.360	Stand-by	0.01	0.01	0.01	0.01	0.01	1.63

E-field strength measurement result at 20 cm:

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (A/m)	Limits (V/m)
0.360	1% Battery Level	1.12	0.17	0.13	0.21	0.26	614
0.360	50% Battery Level	0.86	0.19	0.06	0.12	0.23	614
0.360	99% Battery Level	0.83	0.21	0.03	0.14	0.25	614
0.360	Stand-by	0.45	0.11	0.12	0.05	0.12	614

The result for Apple Watch wireless power transmit part:
H-field strength measurement result at 20 cm:

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
0.3265	1% Battery Level	0.02	0.01	0.01	0.01	0.01	1.63
0.3265	50% Battery Level	0.01	0.01	0.01	0.01	0.01	1.63
0.3265	99% Battery Level	0.01	0.01	0.01	0.01	0.01	1.63
0.3265	Stand-by	0.01	0.01	0.01	0.01	0.01	1.63

E-field strength measurement result at 20 cm:

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (A/m)	Limits (V/m)
0.3265	1% Battery Level	0.32	0.16	0.13	0.32	0.56	614
0.3265	50% Battery Level	0.15	0.26	0.12	0.11	0.52	614
0.3265	99% Battery Level	0.11	0.18	0.09	0.06	0.31	614
0.3265	Stand-by	0.06	0.12	0.08	0.06	0.13	614

H-field strength measurement result at 20 cm:

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
1.778	1% Battery Level	0.01	0.01	0.01	0.01	0.02	1.63
1.778	50% Battery Level	0.01	0.01	0.01	0.01	0.01	1.63
1.778	99% Battery Level	0.01	0.01	0.01	0.01	0.01	1.63
1.778	Stand-by	0.01	0.01	0.01	0.01	0.01	1.63

E-field strength measurement result at 20 cm:

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (A/m)	Limits (V/m)
1.778	1% Battery Level	0.08	0.10	0.11	0.07	0.45	614
1.778	50% Battery Level	0.05	0.07	0.08	0.03	0.41	614
1.778	99% Battery Level	0.02	0.01	0.02	0.01	0.33	614
1.778	Stand-by	0.01	0.01	0.01	0.01	0.12	614

The result for AirPods wireless power transmit part:
H-field strength measurement result at 20 cm:

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Limits (A/m)
0.144	1% Battery Level	0.01	0.01	0.01	0.01	0.01	1.63
0.144	50% Battery Level	0.01	0.01	0.01	0.01	0.01	1.63
0.144	99% Battery Level	0.01	0.01	0.01	0.01	0.01	1.63
0.144	Stand-by	0.01	0.01	0.01	0.01	0.01	1.63

E-field strength measurement result at 20 cm:

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Limits (V/m)
0.144	1% Battery Level	0.34	0.21	0.46	0.29	0.34	614
0.144	50% Battery Level	0.31	0.18	0.12	0.16	0.19	614
0.144	99% Battery Level	0.11	0.09	0.07	0.05	0.03	614
0.144	Stand-by	0.02	0.01	0.02	0.01	0.01	614

Total exposure
MPE-based total exposure ratio (Worst case):
H-Field Strength:

The worst case H-field strength for simultaneous transmitting(360kHz, 326.5kHz and 111-148kHz) are $0.02/1.63 + 0.02/1.63 + 0.01/1.63 = 0.0307 < 1$.

The worst case H-field strength for simultaneous transmitting(360kHz, 1.778MHz and 112-205kHz) are $0.02/1.63 + 0.02/1.63 + 0.01/1.63 = 0.0307 < 1$.

E-Field Strength:

The worst case E-field strength for simultaneous transmitting(360kHz, 326.5kHz and 112-205kHz) are $1.12/614 + 0.56/614 + 0.46/614 = 0.0035 < 1$.

The worst case E-field strength for simultaneous transmitting(360kHz, 1.778MHz and 112-205kHz) are $1.12/614 + 0.45/614 + 0.46/614 = 0.0033 < 1$.

Configuration photo of the test:

Please refer to RF Exposure setup photos.pdf.

***** End of Report*****