

Maximum Permissible Exposure

FCC ID : 2BGZ3-WPTT15ABJ
Equipment : WIRELESS CHARGER
Brand Name : Innergie
Model Name : WPTT-15AB J
Applicant : DELTA ELECTRONICS, INC.
No. 3, Tungyuan Road, Chungli Industrial Zone,
Taoyuan City 32063, Taiwan, R.O.C
Manufacturer : DELTA ELECTRONICS, INC.
No. 3, Tungyuan Road, Chungli Industrial Zone,
Taoyuan City 32063, Taiwan, R.O.C
Standard : 47 CFR Part 2.1091

The product was received on Mar. 26, 2024, and testing was started from Apr. 23, 2024 and completed on May 15, 2024. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in 47 CFR Part 2.1091 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.


Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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APPENDIX A. TEST PHOTOS

PHOTOGRAPHS OF EUT V01



History of this test report

Report No.	Version	Description	Issued Date
FA431422NF	01	Initial issue of report	Jun. 27, 2024



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
2	-	Maximum Permissible Exposure	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

None

Reviewed by: Terry Chang

Report Producer: Amber Chiu

1 General Description

1.1 Information

1.1.1 EUT General Information

RF General Information < 5W >			
Evaluation Mode	Frequency Range	Operating Frequency	Modulation Type
WPC	112-400 kHz	126.934	FSK

RF General Information < 15W >			
Evaluation Mode	Frequency Range	Operating Frequency	Modulation Type
WPC	112-400 kHz	361.2	FSK

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	3L ELECTRONIC	WPT4202-8R4K-PWM-PT	Wireless charging antenna coils	N/A

1.1.3 Support Equipment

Support Equipment					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Adapter	Innergie	ADP-45HW	-	Provided by Customer
2	USB cable	Innergie	A1	-	Provided by Customer
3	RX 15W Load	EESON	A1	-	Provided by Customer
4	Cell phone	Apple	MGJA3TA/A	-	Provided by Customer

1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2.1091

The following reference test guidance is not within the scope of accreditation of TAF:

- ♦ KDB680106 D01 Wireless Power Transfer v04

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted < 5 W >	TH01-HY	Raven Chien	22.2~22.8°C / 53~59%	23/Apr/2024
RF Conducted <15 W >	TH01-HY	Alan Chien	22.2~22.8°C / 53~59%	15/May/2024

2 Human Exposure Assessment

2.1 Maximum Permissible Exposure

2.1.1 Limit of Maximum Permissible Exposure

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
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

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
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

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

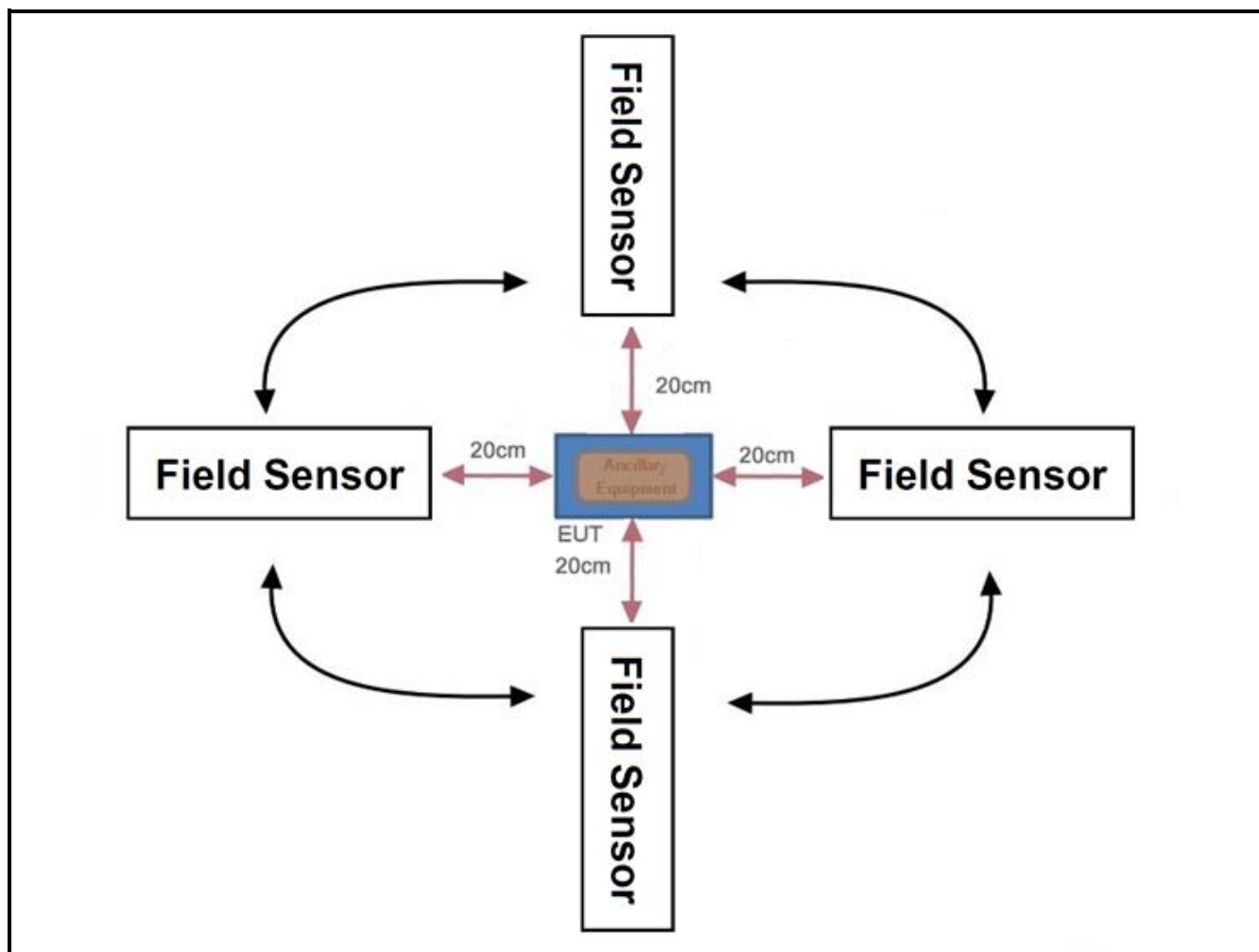
2.1.2 The Worst Condition

Ancillary Equipment	Evaluation Mode	Worst Condition
RX 15W Load	WPC	Low power<25%

2.1.3 Test Method

Test Method
☒ Performed aggregate both leakage E-field and H-field at surrounding the device from all simultaneous transmitting coils.
☒ During testing, the EUT was placed on a non-conductive table top and the ancillary equipment (e.g., mobile phone) was placed on the EUT for charging. Maximum E-field and H-field measurements were tested 20 cm from each side of the EUT. Along the side of the EUT to center of E-field probe and H-field probe were positioned at the location to search maximum field strength.

2.1.4 Test Setup



Note 1: find worst position for each axis.

Note 2: This shall be measured as the distance from the edge of the device to the center of the measurement probe.

2.1.5 Result of Maximum Permissible Exposure
< 5W >

Maximum Permissible Exposure				
Charging Condition	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
Low power<25%	20cm	Left	1.9375	0.018
	20cm	Right	2.4375	0.019
	20cm	Top	1.8438	0.019
	20cm	Bottom	2.0793	0.019
Limit			614	1.63
Result			PASS	PASS

< 15W >

Maximum Permissible Exposure				
Charging Condition	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
Low power<25%	20cm	Left	0.6857	0.019
	20cm	Right	0.7184	0.024
	20cm	Top	0.7471	0.023
	20cm	Bottom	0.7081	0.018
Limit			614	1.63
Result			PASS	PASS

3 Test Equipment and Calibration Data

Instrument for Conducted Test

Instrument	Manufacturer/ Brand Name	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Electric and Magnetic field Probe - Analyzer	Narda S.T.S. / PMM	EHP 200AC	180ZX00640	3kHz~30MHz	17/Jan/2024	16/Jan/2025
Probe – test tool	Narda S.T.S. / PMM	EHP200-TS	Rel 1.94 28/08/2020	N/A	N/A	N/A



4 Measurement Uncertainty

Test Items	Uncertainty	Remark
Maximum Permissible Exposure	1.5 (V/m)	Confidence levels of 95%