

Prüfbericht-Nr.: Test report no.:	CN23AMV5 003	Auftrags-Nr.: Order no.:	168447466	Seite 1 von 11 Page 1 of 11
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2023-10-12	
Auftraggeber: Client:	SRP COMPANIES 85 RIO GRANDE DRIVE SECOND FLOOR, CASTLE ROCK, Colorado, United States			
Prüfgegenstand: Test item:	TTNM WRLS MGNTC CHRGR W/TYPE C			
Bezeichnung / Typ-Nr.: Identification / Type no.:	608707678630			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	CFR47 FCC Part 2.1091			
Wareneingangsdatum: Date of sample receipt:	2023-10-13	Please refer to Photo Document		
Prüfmuster-Nr.: Test sample no:	A003579946-001~003			
Prüfzeitraum: Testing period:	2023-10-27 - 2023-10-30			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	 Lin Lin		genehmigt von: authorized by:	 Hardy Suo
Datum: Date:	2023-11-01		Ausstellungsdatum: Issue date:	2023-11-01
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:	FCC ID: 2ATF5-67863			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.
No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. China.

FCC Accreditation Designation No.: CN1260

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Equipment	Manufacturer	Model	Serial No.	Cal. until
Electric and Magnetic Field Analyzer	Narda	EHP200A	180ZX20517	2024-09-21

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Magnetic Field Emissions (A/m)	±1.2µT
Electric Field Emissions (V/m)	±18%

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2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. China. is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a TTNM WRLS MGNTC CHRGR W/TYPE C, which supports wireless charging (WPT) function.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	TTNM WRLS MGNTC CHRGR W/TYPE C
Type Designation:	608707678630
FCC ID:	2ATF5-67863
Operating Voltage:	DC 5V@3A / 9V@2.2A
Operating Temperature Range:	-10°C ~ +60°C
Technical Specification of WPT	
Frequency Range:	110~205KHz
Type of Modulation:	FSK
Antenna Type:	Coil antenna
Antenna Number:	1
Wireless output power:	5W / 7.5W / 10W / 15W

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Charging mode
- B. On, Standby

3.4 Noise Generating and Noise Suppressing Parts

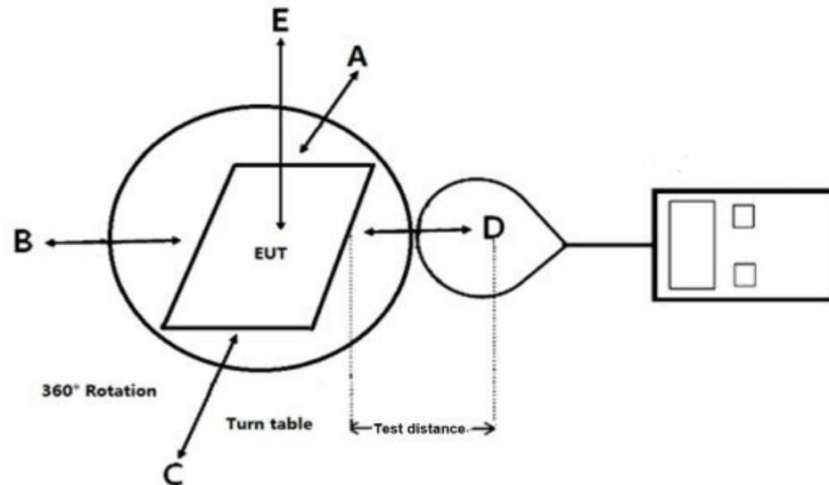
Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- User Manual
- ID Label and Location Info
- Operation Description

3.6 Test Setup Diagram

Diagram of Measurement Configuration



4 Safety Human Exposure

4.1 Radio Frequency Exposure Compliance

4.1.1 Test Procedures According to the Technical Standards

Standards	Test Item	Judgment	Remark
FCC CFR 47 part1, 1.1310 KDB680106 D01v03r01	Electric Field Strength (E) (V/m)	PASS	-
	Magnetic Field Strength (H) (A/m)	PASS	-

4.1.2 Limit of Maximum Permissible Exposure

Limit of Maximum Permissible Exposure

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 Exposure				
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
300-1,500			f/300	6
1,500-100,000			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
300-1,500			f/1500	30
1,500-100,000			1.0	30

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

Note 1: f = frequency in MHz ; *Plane-wave equivalent power density.

Note 2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03.

Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

Note 4: Test distance from 0 cm to 20cm and the step is 2cm.

4.1.3 Test Result

RF Exposure Evaluation - Magnetic Field Emissions:

Test Mode	Test Distance (cm)	Measure Value (A/m)					Limit (A/m)	Result
		Top	Front	Rear	Left	Right		
Charging mode	0	0.275	0.282	0.291	0.278	0.274	1.63	PASS
	2	0.273	0.28	0.287	0.276	0.273	1.63	PASS
	4	0.272	0.279	0.285	0.273	0.271	1.63	PASS
	6	0.27	0.277	0.284	0.271	0.268	1.63	PASS
	8	0.267	0.274	0.282	0.269	0.265	1.63	PASS
	10	0.264	0.273	0.28	0.267	0.262	1.63	PASS
	12	0.262	0.271	0.279	0.265	0.258	1.63	PASS
	14	0.261	0.268	0.275	0.262	0.256	1.63	PASS
	16	0.257	0.265	0.273	0.261	0.254	1.63	PASS
	18	0.254	0.261	0.27	0.258	0.25	1.63	PASS
	20	0.251	0.258	0.267	0.254	0.246	1.63	PASS

RF Exposure Evaluation - Electric Field Emissions:

Test Mode	Test Distance (cm)	Measure Value (V/m)					Limit (V/m)	Result
		Top	Front	Rear	Left	Right		
Charging mode	0	1.853	1.862	1.876	1.857	1.851	614	PASS
	2	1.85	1.858	1.874	1.855	1.848	614	PASS
	4	1.847	1.855	1.873	1.852	1.846	614	PASS
	6	1.843	1.851	1.87	1.848	1.843	614	PASS
	8	1.841	1.848	1.867	1.844	1.84	614	PASS
	10	1.837	1.845	1.862	1.842	1.837	614	PASS
	12	1.835	1.842	1.86	1.838	1.833	614	PASS
	14	1.831	1.839	1.856	1.836	1.831	614	PASS
	16	1.828	1.835	1.853	1.832	1.826	614	PASS
	18	1.825	1.833	1.851	1.828	1.823	614	PASS
	20	1.822	1.831	1.848	1.824	1.82	614	PASS

5 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

6 List of Tables

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