



RF Exposure Evaluation Declaration

FCC ID: QISCP39S

APPLICANT: Huawei Technologies Co., Ltd.

Application Type: Certification

Product: HUAWEI SuperCharge Wireless Car Charger

Model No.: CP39S

Brand Name: HUAWEI

FCC Classification: Part 15 Low Power Transmitter Below 1705 kHz (DCD)

Test Date: October 02, 2019

Reviewed By:

(Sunny Sun)

Approved By:

(Robin Wu)



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
1907RSU008-U2	Rev. 01	Initial Report	10-02-2019	Valid

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§2.1033 General Information

Applicant:	Huawei Technologies Co., Ltd.
Applicant Address:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, China
Manufacturer:	Huawei Technologies Co., Ltd.
Manufacturer Address:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, China
Test Site:	MRT Technology (Suzhou) Co., Ltd
Test Site Address:	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is a FCC registered (MRT Reg. No. 893164) test facility with the site description report on file and has met all the requirements specified in ANSI C63.4-2014.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-20025, G-20034, C-20020, T-20020) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications, Radio and SAR testing.



1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name	HUAWEI SuperCharge Wireless Car Charger
Model No.	CP39S
Brand Name	HUAWEI
Working Frequency Range	110kHz ~ 145kHz
Modulation Type	FSK
Input	DC port (Car Charger): 12V=4A , 24V=4A USB Type-C Port: 5V=4.5A , 9V=2A, 10V=4A
Output	27W MAX
Accessory	Car Charger

2. RF EXPOSURE EVALUATION

2.1. Limits

§1.1310 Radiofrequency radiation exposure limits.

Below sets forth limits for Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields

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/ Control 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
300-1,500	--	--	f/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
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

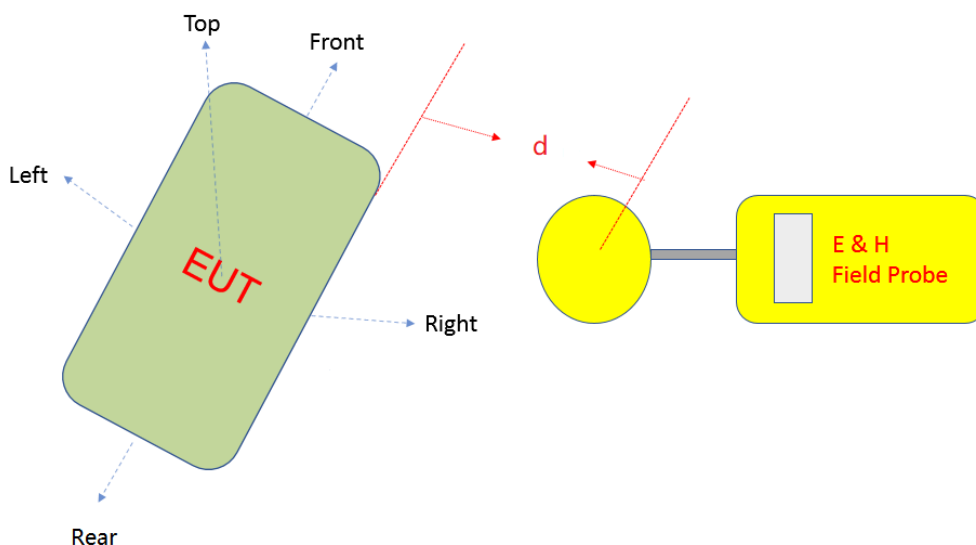
f= Frequency in MHz

* = Plane-wave equivalent power density

2.2. EQUIPMENT APPROVAL CONSIDERATIONS ON KDB 680106 D01v03

EQUIPMENT APPROVAL CONSIDERATIONS	COMPLY
1) Power transfer frequency is less than 1 MHz	Yes. Wireless operating frequency range: 110kHz ~ 145kHz
2) Output power from each primary coil is less than or equal to 15 watts.	No. Wireless maximum transmitted power: 27W Max.
3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.	Yes. Only single primary.
4) Client device is placed directly in contact with the transmitter.	Yes. Placed directly.
5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Yes. Mobile exposure conditions only.
6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.	Yes.

2.1. Test Setup



Note:

1. This shall be measured as the distance from the edge of the device to the center of the measurement probe.
2. d is the test distance at cm. Detailed information please refer to clause 2.3 of this report.

2.2. Test System Details

Auxiliary Equipment Used during Test:

Description	Manufacturer	Model No.	Serial No.	Power Cord
27W Wireless Charger Receiver	Lineprinting	N/A	N/A	N/A
Mobile Phone	Apple	iphone X	N/A	N/A

Note:

1. The 27W Wireless Charger Receiver is provided by manufacturer and it can control the EUT to be at the maximum output power state.
2. Measurements at different power levels of 0 10 50 and 90% for charging mobile phone mode has been evaluated. The worst-case data was shown in this report.

Test Mode:

1. Standby Mode
2. Charging Mode

The test results shown in this report represent the worst-case data.

2.3. Test Result of RF Exposure Evaluation

Product	HUAWEI SuperCharge Wireless Car Charger
Test Item	RF Exposure Evaluation
Note: Communicate with 27W Wireless Charger Receiver	

Electric Field Emissions					
Test Position	Test Distance (d) (cm)	Measure Value (V/m)	Limit (V/m)	50% Limit (V/m)	Result
Front	15	1.39	614	307	Pass
Rear	15	1.34	614	307	Pass
Right	15	1.25	614	307	Pass
Left	15	1.26	614	307	Pass
Top	20	1.46	614	307	Pass
Magnetic Field Emissions					
Test Position	Test Distance (d) (cm)	Measure Value (A/m)	Limit (A/m)	50% Limit (A/m)	Result
Front	15	0.0023	1.63	0.815	Pass
Rear	15	0.0017	1.63	0.815	Pass
Right	15	0.0016	1.63	0.815	Pass
Left	15	0.0015	1.63	0.815	Pass
Top	20	0.0020	1.63	0.815	Pass

Product	HUAWEI SuperCharge Wireless Car Charger
Test Item	RF Exposure Evaluation
Note: Charge the mobile phone	

Electric Field Emissions						
Test Position	Test Distance (d) (cm)	Power Level (%)	Measure Value (V/m)	Limit (V/m)	50% Limit (V/m)	Result
Front	15	0	1.10	614	307	Pass
		10	1.05	614	307	Pass
		50	0.99	614	307	Pass
		90	0.92	614	307	Pass
Rear	15	0	1.05	614	307	Pass
Right	15	0	1.03	614	307	Pass
Left	15	0	1.06	614	307	Pass
Top	20	0	1.19	614	307	Pass
Magnetic Field Emissions						
Test Position	Test Distance (d) (cm)	Power Level (%)	Measure Value (A/m)	Limit (A/m)	50% Limit (A/m)	Result
Front	15	0	0.0022	1.63	0.815	Pass
		10	0.0018	1.63	0.815	Pass
		50	0.0012	1.63	0.815	Pass
		90	0.0010	1.63	0.815	Pass
Rear	15	0	0.0014	1.63	0.815	Pass
Right	15	0	0.0015	1.63	0.815	Pass
Left	15	0	0.0013	1.63	0.815	Pass
Top	20	0	0.0017	1.63	0.815	Pass

_____ The End _____

3. List of Measuring Instrument

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
CARRIES SENSOR	narda	EMR-20	MRTSUE10033	1 year	2020/07/27

Appendix A - EUT Photograph

Refer to "1907RSU008-UE" file.

Appendix B - Test Setup Photograph

Refer to “1907RSU008-UT” file.