

FCC - TEST REPORT

Report Number : **68.760.19.0415.01** Date of Issue: **July 09, 2019**

Model : **CP61**

Product Type : **Wireless Charger**

Applicant : **Huawei Technologies Co., Ltd.**

Address : **Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C**

Manufacturer : **Huawei Technologies Co., Ltd.**

Address : **Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C**

Test Result : **Positive** **Negative**

Total pages including Appendices : **22**

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2. Details about the Test Laboratory

Details about the Test Laboratory

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park,
Nantou Checkpoint Road 2, Nanshan District,
Shenzhen City, 518052,
P. R. China

FCC Registration Number: 514049

Telephone: 86 755 8828 6998
Fax: 86 755 8828 5299

3. Description of the Equipment Under Test

Product:	HUAWEI WIRELESS CHARGER
Model no.:	CP61
FCC ID:	QISCP61
Options and accessories:	Adapter and USB Cable
Rating:	5-10Vdc 4A Max supplied by an external adapter
Adapter information:	Adapter 1: Manufacturer:Huawei Technologies Co.,Ltd. Model: HW-100400E00 Input voltage:100-240V 50/60Hz 1.2A Output voltage:5V \equiv 2A or 9V \equiv 2A or 10V \equiv 4A Max Adapter 2: Manufacturer:Huawei Technologies Co.,Ltd. Model: HW-100400E01 Input voltage:100-240V 50/60Hz 1.2A Output voltage:5V \equiv 2A or 9V \equiv 2A or 10V \equiv 4A Max
RF Transmission Frequency:	111-145KHz
Antenna Type:	Integrated loop antenna
Antenna Gain:	0dBi
Description of the EUT:	The Equipment Under Test (EUT) is a wireless charger which operated at 111-145kHz.

4. Summary of Test Standards

Test Standards	
FCC Part 18 10-1-18 Edition	Industrial, Scientific, and Medical equipment

5. Summary of Test Results

Technical Requirements			
FCC Part 18 10-1-18 Edition			
Test Condition		Pages	Test Result
§18.307	Conducted emission AC power port	10	Pass
§18.301	Operating frequencies	--	N/A
§18.305	Field strength	15	Pass
§18.309	Frequency range	See note 2	Pass
§18.303	Prohibited frequency bands	See note 3	Pass

Note 1: N/A=Not Applicable.

Note 2: Because the highest frequency of the internal sources of the EUT is less than 108MHz, so the measurement only is made up to 1GHz.

Note 3: The fundamental frequency of this product is 111-145kHz. Outside the band specified of §18.303, it is considered sufficiently to comply with the provisions of this section.

6. General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: Q1SCP61, complies with FCC Part 18.

SUMMARY:

All tests according to the regulations cited on page 5 were

- Performed
- Not Performed

The Equipment under Test

- **Fulfills** the general approval requirements.
- **Does not** fulfill the general approval requirements.

Sample Received Date: July 1, 2019

Testing Start Date: July 4, 2019

Testing End Date: July 5, 2019

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch -

Reviewed by:



John Zhi
Project Manager

Prepared by:



Moon Xiong
Project Engineer



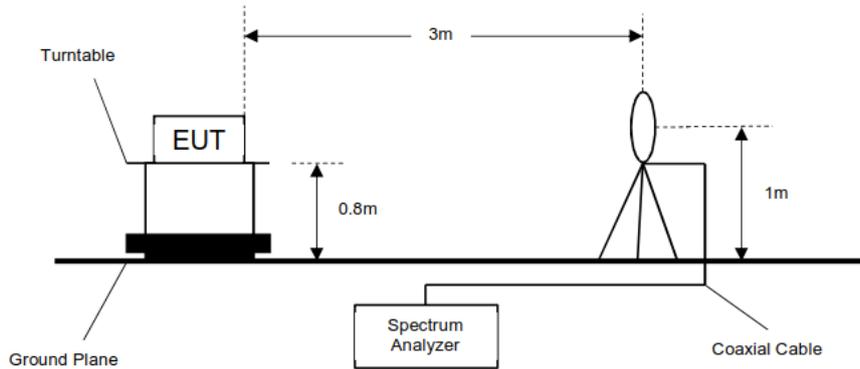
Tested by:



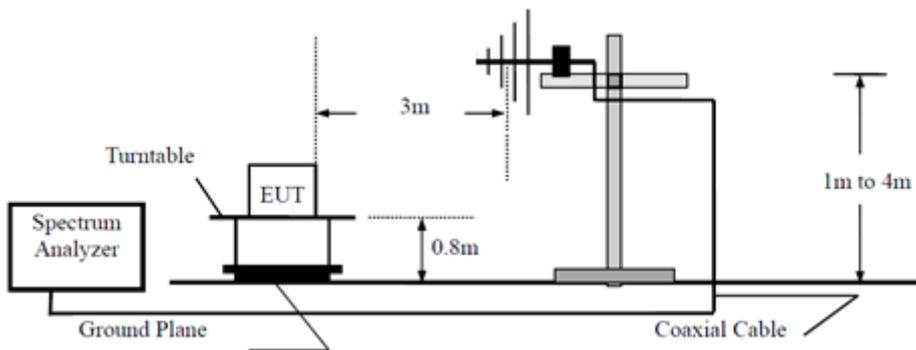
Tree Zhan
Test Engineer

7. Test Setups

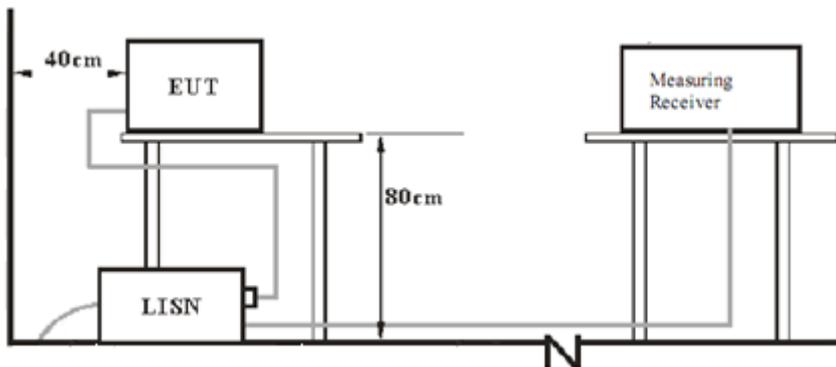
Below 30MHz



30MHz-1GHz



AC Power Line Conducted Emission test setups



8. Systems test configuration

Auxiliary Equipment Used during Test:

Description	Manufacturer	Model NO.	S/N
Mobile Phone	HUAWEI	---	---

9. Technical Requirement

9.1 Conducted Emission Test

Test Method

1. The EUT was placed on a table, which is 0.8m above ground plane
2. The power line of the EUT is connected to the AC mains through an Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. A EMI test receiver is used to test the emissions from both sides of AC line

Limit

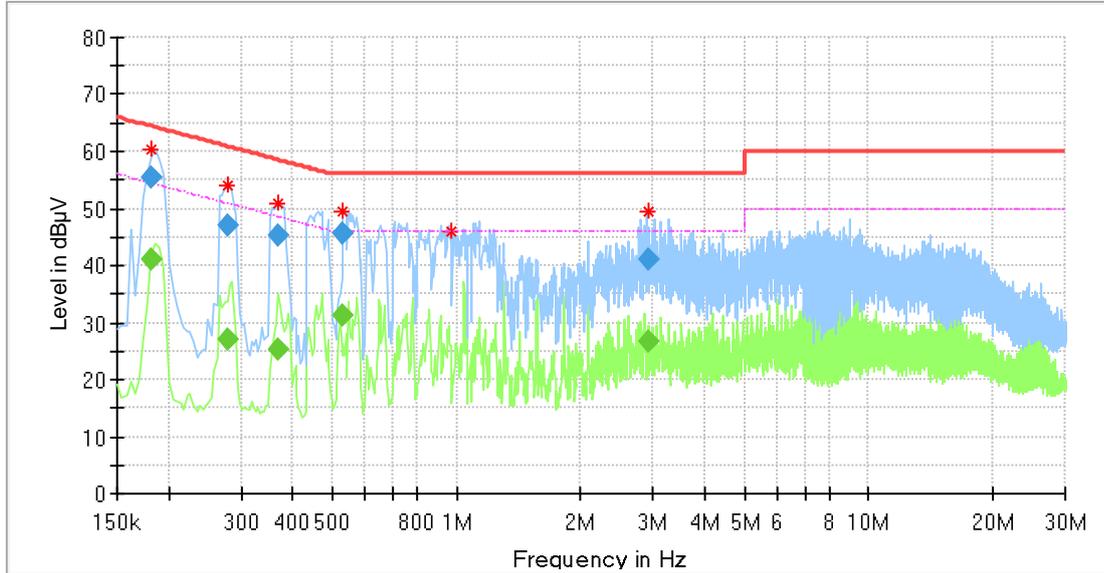
According to §18.307, conducted emissions limit as below:

Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

*Decreasing linearly with logarithm of the frequency

Conducted Emission

Product Type : Wireless Charger
 M/N : CP61
 Operating Condition : Charging Mode
 Test Specification : Line
 Comment : AC 120V/60Hz
 Adapter model : HW-1004000E00



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.181500	60.30	---	64.21	3.91	L1	10.2
0.277500	53.87	---	60.76	6.89	L1	10.2
0.369500	50.88	---	58.41	7.53	L1	10.3
0.529500	49.62	---	56.00	6.38	L1	10.3
0.970000	46.00	---	56.00	10.00	L1	10.3
2.910500	49.62	---	56.00	6.38	L1	10.3

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.181500	---	41.11	54.42	13.31	L1	10.2
0.181500	55.58	---	64.42	8.84	L1	10.2
0.277500	---	26.93	50.89	23.96	L1	10.2
0.277500	46.91	---	60.89	13.98	L1	10.2
0.369500	---	25.21	48.51	23.30	L1	10.3
0.369500	45.38	---	58.51	13.13	L1	10.3
0.529500	---	31.33	46.00	14.67	L1	10.3
0.529500	45.49	---	56.00	10.51	L1	10.3
2.910500	---	26.82	46.00	19.18	L1	10.3
2.910500	41.18	---	56.00	14.82	L1	10.3

Remark :

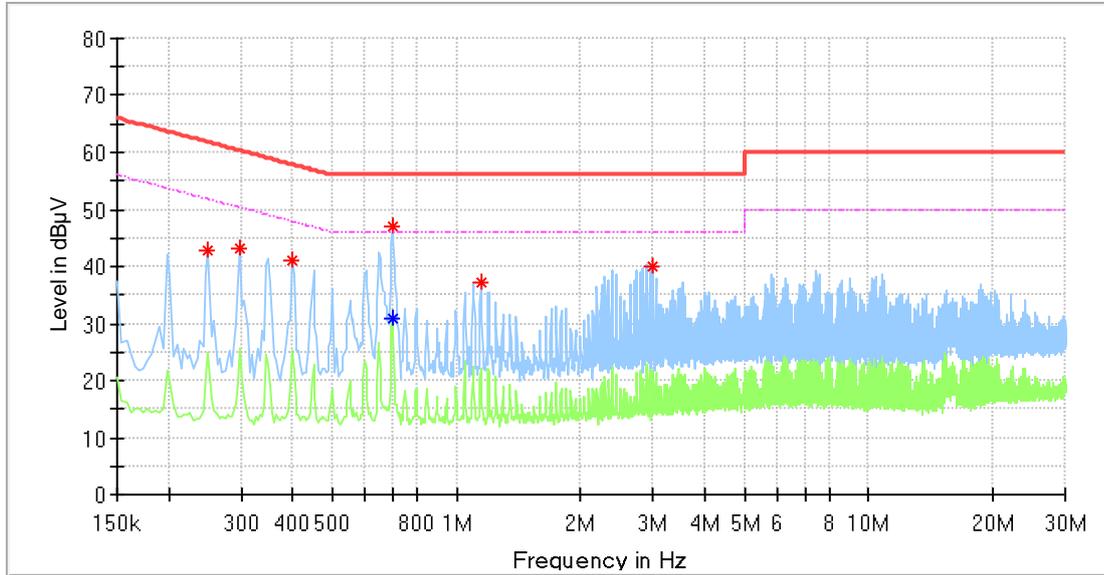
Level=Reading Level + Correction Factor

Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)

Conducted Emission

Product Type : Wireless Charger
 M/N : CP61
 Operating Condition : Charging Mode
 Test Specification : Neutral
 Comment : AC 120V/60Hz
 Adapter model : HW-1004000E00



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.250000	42.91	---	61.76	18.84	N	10.2
0.298000	43.12	---	60.30	17.18	N	10.2
0.398000	41.07	---	57.90	16.82	N	10.3
0.698000	---	30.72	46.00	15.28	N	10.3
0.698000	47.02	---	56.00	8.98	N	10.3
1.146000	37.26	---	56.00	18.74	N	10.3
2.990000	39.97	---	56.00	16.03	N	10.4

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---		---

Remark :

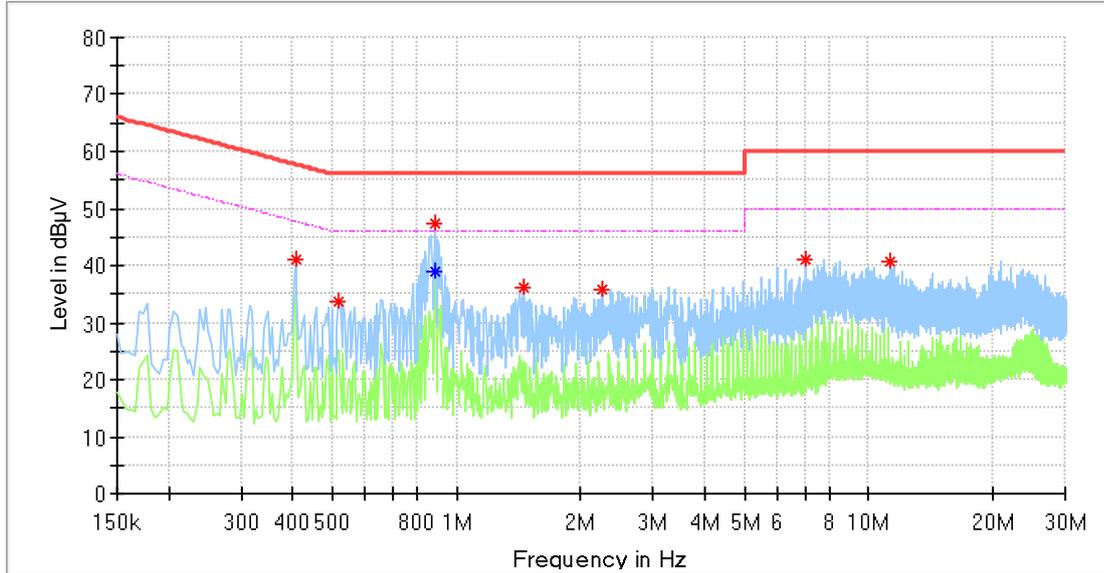
Level=Reading Level + Correction Factor

Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)

Conducted Emission

Product Type : Wireless Charger
 M/N : CP61
 Operating Condition : Charging Mode
 Test Specification : Line
 Comment : AC 120V/60Hz
 Adapter model : HW-1004000E01



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.406000	40.90	---	57.73	16.83	L1	10.3
0.518000	33.76	---	56.00	22.24	L1	10.3
0.886000	47.49	---	56.00	8.51	L1	10.3
0.886000	---	39.07	46.00	6.93	L1	10.3
1.450000	36.05	---	56.00	19.95	L1	10.3
2.254000	35.62	---	56.00	20.38	L1	10.3
7.038000	41.19	---	60.00	18.81	L1	10.5
11.310000	40.57	---	60.00	19.43	L1	10.7

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---	---	---

Remark :

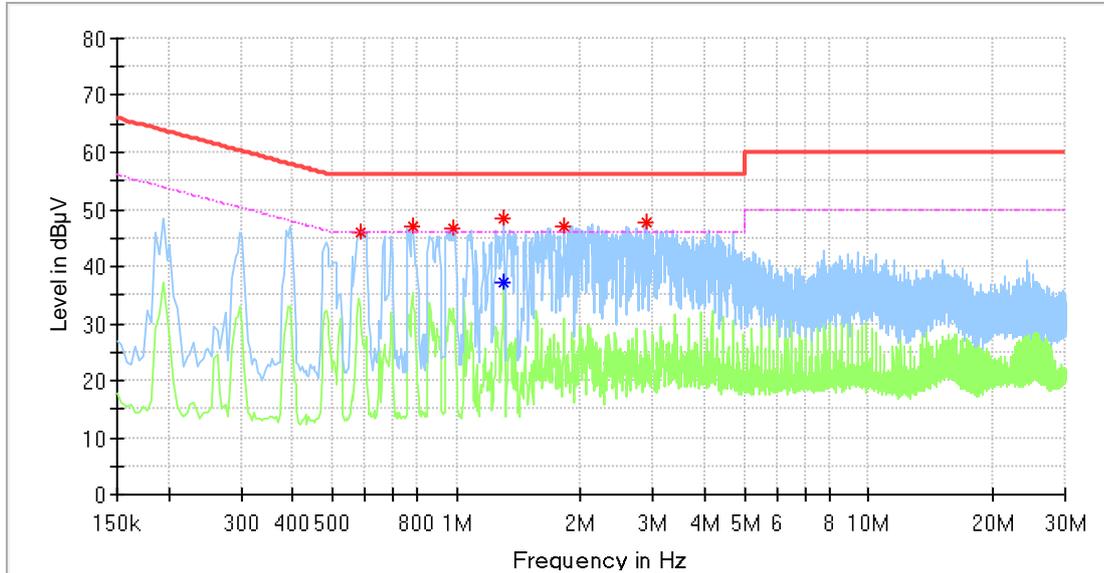
Level=Reading Level + Correction Factor

Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)

Conducted Emission

Product Type : Wireless Charger
 M/N : CP61
 Operating Condition : Charging Mode
 Test Specification : Neutral
 Comment : AC 120V/60Hz
 Adapter model : HW-1004000E01



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.586000	46.10	---	56.00	9.90	N	10.3
0.782000	46.87	---	56.00	9.13	N	10.3
0.982000	46.57	---	56.00	9.43	N	10.3
1.302000	48.51	---	56.00	7.49	N	10.3
1.302000	---	37.11	46.00	8.89	N	10.3
1.822000	47.18	---	56.00	8.82	N	10.3
2.890000	47.89	---	56.00	8.11	N	10.4

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---		---

Remark :

Level=Reading Level + Correction Factor

Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)

9.2 Radiated Emission Test for 9KHz-30MHz

Test Method

1: Field strength measurements are made in the frequency range of 9 kHz to 30 MHz using a calibrated loop antenna as specified in ANSI C63.4 clause 4.5.2, positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. This method is applicable for radiated radio-noise measurements from all units, cables, power cords, and interconnect cabling or wiring.

2: For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

Limits

According to §18.305, Field strength limit as below:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500 500 or more	25 25 x SQRT(power/500)	300 1300
	Any non-ISM frequency	Below 500 500 or more	15 15 x SQRT(power/500)	300 1300
Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz Above 5,725 MHz	Any Any	10 (²)	1,600 (²)
Medical diathermy	Any ISM frequency Any non-ISM frequency	Any Any	25 15	300 300
Ultrasonic	Below 490 kHz	Below 500 500 or more	2,400/F(kHz) 2,400/F(kHz) x SQRT(power/500)	300 ³ 300
	490 to 1,600 kHz Above 1,600 kHz	Any Any	24,000/F(kHz) 15	30 30
Induction cooking ranges	Below 90 kHz	Any	1,500	⁴ 30
	On or above 90 kHz	Any	300	⁴ 30
¹ Field strength may not exceed 10 µV/m at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts. ² Reduced to the greatest extent possible. ³ Field strength may not exceed 10 µV/m at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts. ⁴ Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.				

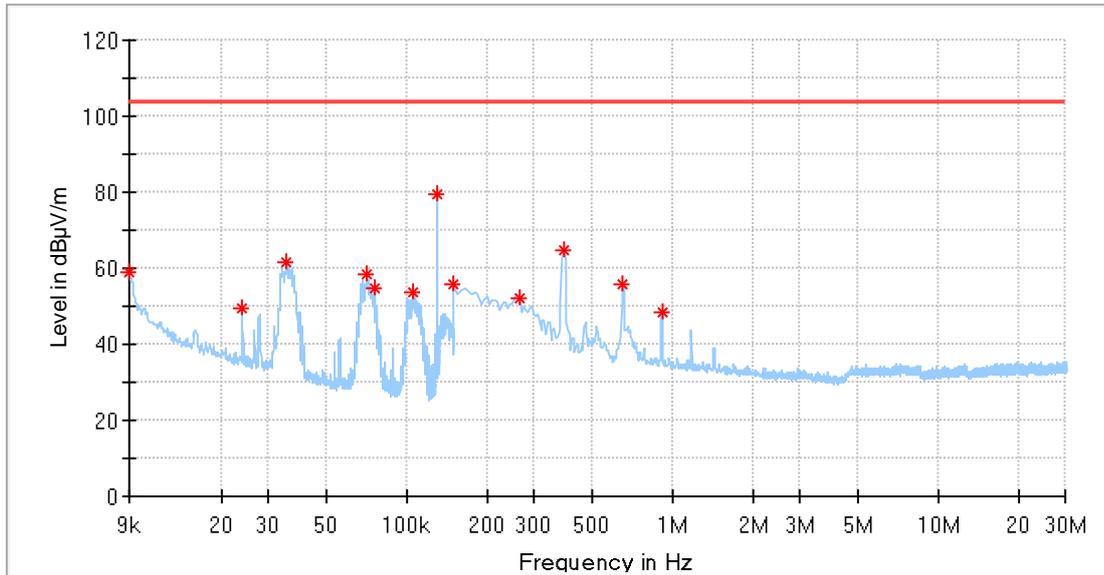
Note 1: Limit 3m(dBµV/m)=Limit 300m(dBµV/m)+40Log(300m/3m) (Below 30MHz)

Note 2: Limit 3m(dBµV/m)=Limit 300m(dBµV/m)+20Log(300m/3m) (Above 30MHz)

Note 3: this product is a wireless charger which operated at 111-148kHz with data transmission. So, it belongs to miscellaneous with non-SIM frequency.

Radiated Emission for 9KHz-30MHz

Product Type : Wireless Charger
 M/N : CP61
 Operating Condition : Charging Mode
 Polarity : Horizontal
 Comment : 9KHz-30MHz



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB)	Comment
0.009000	58.78	103.50	44.72	H	0.0	21.0	---
0.023993	49.53	103.50	53.97	H	0.0	20.0	---
0.035085	61.52	103.50	41.98	H	346.0	19.8	---
0.070852	58.30	103.50	45.20	H	346.0	19.7	---
0.075458	54.52	103.50	48.98	H	322.0	19.7	---
0.105209	53.89	103.50	49.61	H	351.0	19.8	---
0.130307	79.48	103.50	24.02	H	0.0	19.7	---
0.150000	56.00	103.50	47.50	H	0.0	19.7	---
0.264425	51.93	103.50	51.57	H	0.0	19.7	---
0.388800	64.69	103.50	38.81	H	0.0	19.8	---
0.647500	55.73	103.50	47.77	H	355.0	19.8	---
0.911175	48.60	103.50	54.90	H	349.0	19.8	---

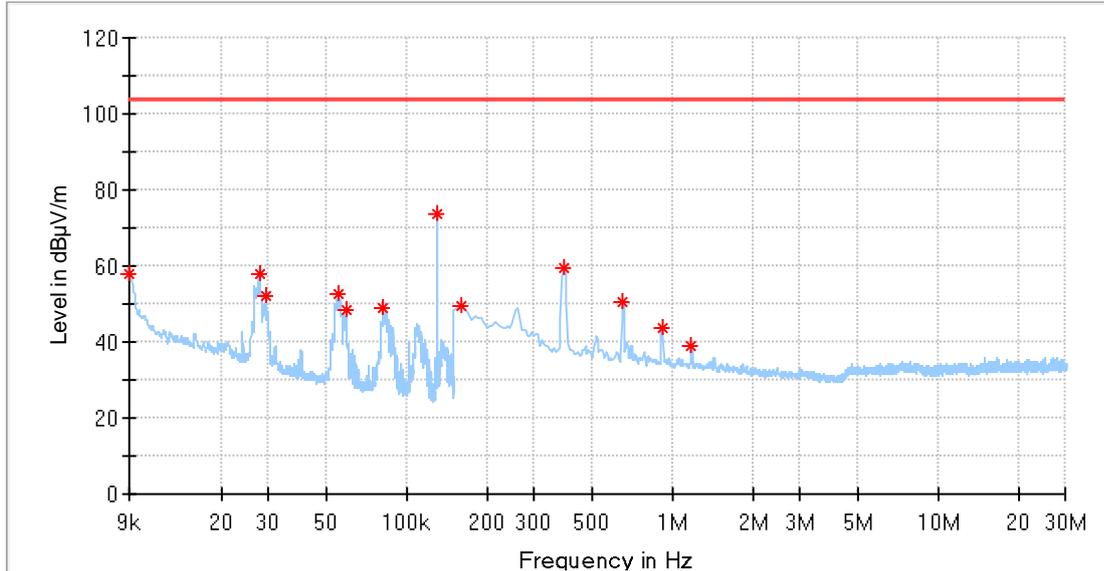
Remark :

Level=Reading Level + Correction Factor

Correction Factor=Antenna Factor + Cable Loss

(The Reading Level is recorded by software which is not shown in the sheet)

Product Type : Wireless Charger
 M/N : CP61
 Operating Condition : Charging Mode
 Polarity : Vertical
 Comment : 9KHz-30MHz



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	PoI	Azimuth (deg)	Corr. (dB)	Comment
0.009000	58.15	103.50	45.35	V	224.0	21.0	---
0.027753	58.00	103.50	45.50	V	30.0	19.9	---
0.029492	52.10	103.50	51.40	V	297.0	19.9	---
0.055577	52.67	103.50	50.83	V	30.0	19.7	---
0.059243	48.21	103.50	55.29	V	297.0	19.7	---
0.081756	48.80	103.50	54.70	V	288.0	19.7	---
0.130307	73.79	103.50	29.71	V	39.0	19.7	---
0.159950	49.33	103.50	54.17	V	305.0	19.7	---
0.388800	59.62	103.50	43.88	V	45.0	19.8	---
0.647500	50.59	103.50	52.91	V	45.0	19.8	---
0.916150	43.44	103.50	60.06	V	66.0	19.8	---
1.169875	39.04	103.50	64.46	V	45.0	19.8	---

Remark :

Level=Reading Level + Correction Factor

Correction Factor=Antenna Factor + Cable Loss

(The Reading Level is recorded by software which is not shown in the sheet)

9.3 Radiated Emission Test for 30MHz-1GHz

Test Method

- 1: The EUT was placed on a turn table which is 0.8m above ground for below 1GHz at 3 meters chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2: The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
- 3: The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4: For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5: Use the following spectrum analyzer settings According to C63.4:
 Span = wide enough to capture the peak level of the in-band emission and all spurious
 RBW = 100 KHz, VBW ≥ RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Note:

- 1: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Quasi-peak detection (QP) at frequency below 1GHz.

Limits

According to §18.305, Field strength limit as below:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (µV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500 500 or more	25 25 x SQRT(power/500)	300 1300
	Any non-ISM frequency	Below 500 500 or more	15 15 x SQRT(power/500)	300 1300
Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz Above 5,725 MHz	Any Any	10 (²)	1,600 (²)
Medical diathermy	Any ISM frequency	Any	25	300
	Any non-ISM frequency	Any	15	300
Ultrasonic	Below 490 kHz	Below 500 500 or more	2,400/F(kHz) 2,400/F(kHz) x SQRT(power/500)	300 ³ 300
	490 to 1,600 kHz	Any	24,000/F(kHz)	30
	Above 1,600 kHz	Any	15	30
Induction cooking ranges	Below 90 kHz	Any	1,500	⁴ 30
	On or above 90 kHz	Any	300	⁴ 30

¹Field strength may not exceed 10 µV/m at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.
²Reduced to the greatest extent possible.
³Field strength may not exceed 10 µV/m at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts.
⁴Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.

- Note 1: Limit 3m(dBµV/m)=Limit 300m(dBµV/m)+40Log(300m/3m) (Below 30MHz)
 Note 2: Limit 3m(dBµV/m)=Limit 300m(dBµV/m)+20Log(300m/3m) (Above 30MHz)
 Note 3: this product is a wireless charger which operated at 111-148kHz with data transmission. So, it belongs to miscellaneous with non-SIM frequency.

Radiated Emission

Model: CP61
 Test Mode: Charging Mode
 Test Voltage: AC 120V/60Hz
 Project No./Sample ID: 68.760.19.0415.01
 Adapter model: HW-1004000E00

Frequency Band	Frequency	Emission Level	Polarization	Limit	Detector	Margin	Correct factor (dB)	Result
	MHz	dB μ V/m		dB μ V/m		dB μ V/m		
30MHz-1000MHz	50.188125	18.77	H	63.52	QP	44.75	18.1	Pass
	97.718125	22.80	H	63.52	QP	40.72	15.5	Pass
	168.649375	25.60	H	63.52	QP	37.92	14.5	Pass
	290.263125	25.81	H	63.52	QP	37.71	19.7	Pass
	527.185625	30.45	H	63.52	QP	33.07	24.6	Pass
	951.863750	35.17	H	63.52	QP	28.35	30.8	Pass
	34.061875	23.33	V	63.52	QP	39.92	14.8	Pass
	50.188125	21.85	V	63.52	QP	41.67	18.1	Pass
	96.687500	25.84	V	63.52	QP	38.68	15.4	Pass
	187.806875	24.85	V	63.52	QP	38.67	15.1	Pass
	635.461875	33.32	V	63.52	QP	30.20	26.6	Pass
892.390625	36.88	V	63.52	QP	26.64	29.9	Pass	

Remark:

- 1) Level=Reading Level + Correction Factor
- 2) Correction Factor=Antenna Factor + Cable Loss
- 3) The Reading Level is recorded by software which is not shown in the sheet
- 4) The worst case data were reported and no other spurious and harmonics emissions were reported greater than listed emission above table.

Model: CP61
 Test Mode: Charging Mode
 Test Voltage: AC 120V/60Hz
 Project No./Sample ID: 68.760.19.0415.01
 Adapter model: HW-1004000E01

Frequency Band	Frequency	Emission Level	Polarization	Limit	Detector	Margin	Correct factor (dB)	Result
	MHz	dB μ V/m		dB μ V/m		dB μ V/m		
30MHz-1000MHz	46.853750	21.51	H	63.52	QP	42.01	17.6	Pass
	99.233750	22.66	H	63.52	QP	40.86	15.7	Pass
	130.213125	21.12	H	63.52	QP	42.4	13.5	Pass
	169.376875	33.17	H	63.52	QP	30.35	14.5	Pass
	307.359375	26.84	H	63.52	QP	36.68	20.2	Pass
	415.453750	29.40	H	63.52	QP	34.12	22.6	Pass
	34.365000	27.83	V	63.52	QP	35.69	14.9	Pass
	45.641250	24.89	V	63.52	QP	38.63	17.4	Pass
	54.553125	23.76	V	63.52	QP	39.76	17.1	Pass
	95.535625	26.49	V	63.52	QP	37.03	15.2	Pass
	173.923750	32.95	V	63.52	QP	30.57	14.6	Pass
829.401250	39.26	V	63.52	QP	24.26	28.9	Pass	

Remark:

- 1) Level=Reading Level + Correction Factor
- 2) Correction Factor=Antenna Factor + Cable Loss
- 3) The Reading Level is recorded by software which is not shown in the sheet
- 4) The worst case data were reported and no other spurious and harmonics emissions were reported greater than listed emission above table.

10. Test Equipment List

Radiated Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	101269	2019-7-6
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	2019-7-6
Horn Antenna	Rohde & Schwarz	HF907	102294	2019-7-6
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100398	2019-7-6
Pre-amplifier	Rohde & Schwarz	SCU 18	102230	2019-7-6
Signal Generator	Rohde & Schwarz	SMY01	839369/005	2019-7-6
Attenuator	Agilent	8491A	MY39264334	2019-7-6
3m Semi-anechoic chamber	TDK	9X6X6	----	2020-7-7
Test software	Rohde & Schwarz	EMC32	Version 9.15.00	N/A

Conducted Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 3	101782	2019-7-6
LISN	Rohde & Schwarz	ENV4200	100249	2019-7-6
LISN	Rohde & Schwarz	ENV432	101318	2019-7-6
LISN	Rohde & Schwarz	ENV216	100326	2019-7-6
ISN	Rohde & Schwarz	ENY81	100177	2019-7-6
ISN	Rohde & Schwarz	ENY81-CA6	101664	2019-7-6
High Voltage Probe	Rohde & Schwarz	TK9420(VT9420)	9420-584	2019-6-30
RF Current Probe	Rohde & Schwarz	EZ-17	100816	2020-6-29
Attenuator	Shanghai Huaxiang	TS2-26-3	080928189	2019-7-6
Test software	Rohde & Schwarz	EMC32	Version9.15.00	N/A

11. Measurement System Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty	
Items	Extended Uncertainty
Uncertainty for Conducted Emission 9kHz-150KHz	3.62dB
Uncertainty for Radiated Emission in 3m chamber 9KHz-30MHz	4.46dB
Uncertainty for Radiated Emission in 3m chamber 30MHz-1000MHz	Horizontal: 4.91dB; Vertical: 4.89dB;