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TEST REPORT

of

FCC Part 15 Subpart C §15.209

FCC ID: 2AJKSKSC100G2

Equipment Under Test: WIRELESS CHARGER

: KSC-100G2 Model Name

: Kum Oh Electronics Co., Ltd. **Applicant**

: Kum Oh Electronics Co., Ltd. Manufacturer

: 2016.12.14 Date of Receipt

: 2016.12.26 ~ 2017.01.12 Date of Test(s)

Date of Issue : 2017.01.12

In the configuration tested, the EUT complied with the standards specified above.

Tested By: Date: 2017.01.12 Aileen Jeong **Technical** 2017.01.12 Date: Manager:

Alvin Kim



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1. General information

1.1. Testing laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)

- Wireless Div. 2FL, 10-2, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807

All SGS services are rendered in accordance with the applicable SGS conditions of service available on request and accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.

Phone No. : +82 31 688 0901 Fax No. : +82 31 688 0921

1.2. Details of applicant

Applicant : Kum Oh Electronics Co., Ltd.

Address : 35, Gilju-ro 444beon-gil, Wonmi-gu, Bucheon-si, Gyeonggi-do, 14556 Korea

Contact Person : Park, Chan-Hong Phone No. : +82 10 4407 6607

1.3. Description of EUT

| Kind of Product | WIRELESS CHARGER |
|-----------------------|-------------------------------|
| Model Name | KSC-100G2 |
| Power Supply | DC 5.0 V |
| Frequency Range | 120 kHz ~ 190 kHz |
| Antenna Type | Inductive loop coil antenna |
| Operating Temperature | -20 ℃ ~ 60 ℃ |
| H/W Version | rev0.6 |
| S/W Version | SAORBISO_30_OPT1_8_18_15b(3s) |



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1.4. Test Equipment List

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Interval | Cal. Due |
|-----------------------|-----------------------|--------------------------------------|-----------|---------------|------------------|---------------|
| Spectrum Analyzer | R&S | FSV30 | 103102 | Jun. 08, 2016 | Annual | Jun. 08, 2017 |
| Signal Generator | R&S | SMBV100A | 255834 | Jun. 20, 2016 | Annual | Jun. 20, 2017 |
| DC Power Supply | R&S | HMP2020 | 019922876 | Apr. 26, 2016 | Annual | Apr. 26, 2017 |
| Test Receiver | R&S | ESU26 | 100109 | Mar. 07, 2016 | Annual | Mar. 07, 2017 |
| Loop Antenna | R&S | HFH2-Z2 | 100118 | Jun. 04, 2016 | Biennial | Jun. 04, 2017 |
| Turn Table | INNCO systems GmbH | DS 1200 S | N/A | N.C.R. | N/A | N.C.R. |
| Anechoic Chamber | SY Corporation | L x W x H (9.6 m x 6.4 m x 6.6 m) | N/A | N.C.R. | N/A | N.C.R. |
| Shield Room | SY Corporation | L x W x H (6.5 m x 3.5 m x 3.5 m) | N/A | N.C.R. | N/A | N.C.R. |
| Test Receiver | R&S | ESCI 7 | 100911 | Dec. 20, 2016 | Annual | Dec. 20, 2017 |
| Two-Line V-Network | R&S | ENV216 | 100190 | Dec. 21, 2016 | Annual | Dec. 21, 2017 |

Support equipment

| Description | Manufacturer | Model | FCC ID |
|-----------------------|-------------------------------|---------|-----------|
| Smart Wearable Device | Samsung Electronics Co., Ltd. | SM-R720 | A3LSMR720 |

1.5. Sample calculation

Where relevant, the following sample calculation is provided:

Field strength level ($dB\mu N/m$) = Measured level ($dB\mu N$) + Antenna factor (dB) + Cable loss (dB)



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1.6. Worst case of test configurations

In order to check all kinds of possible configurations, EUT was evaluated with appropriate client and under each charging condition as below table.

| EUT configuration | Description |
|---|--------------------------------|
| Charging Mode | Less than 1 % of battery |
| with client device (Model : SM-R720, | Less than 50 % of battery |
| FCC ID : A3LSMR720) | 100 % full charging of battery |

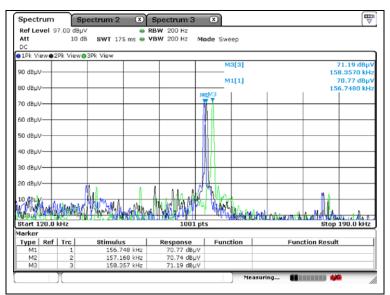
EUT setup configuration:

- The EUT can be capable of charging one client at a time.
- The measurement is performed with a typical WPT client device on the power transfer zone.

Operating configurations:

Client device (SM-R720)

- While the wireless charger is charging with the client device turned off. (Trace#1 "M1")
- While the client device was in airplane mode (Trace#2 "M2")
- While the client device was connected to an active data connection (Trace#3 "M3") The device was tested under all modes and bands like WLAN and Bluetooth Low Energy. In the result, WLAN / 2.4 @ Band was found in Middle channel.



Plot – fundamental emission comparison

- The level of Trace#3 was higher than Trace#1 and 2. So Trace#3 was selected.
- Trace#3 as WLAN / 2.4 @ Band which was found in Middle channel should be tested with the client device as a worst case.



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1.7. Summary of Test Results

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC Part 15 Subpart C §15.209 | | | | | | | | |
|---|--|----------|--|--|--|--|--|--|
| Section in FCC Part 15 Subpart C | Test Item | Result | | | | | | |
| 15.209 | Radiated emission, Spurious Emission and Field Strength of Fundamental | Complied | | | | | | |
| 2.1049 | 20 dB Bandwidth | Complied | | | | | | |
| 15.207 | Transmitter AC Power Line Conducted Emission | Complied | | | | | | |

1.8. Test Report Revision

RTT5041-20(2015.10.01)(3)

| Revision | Report number | Date of Issue | Description |
|----------|------------------------|---------------|-----------------------------|
| 0 | F690501/RF-RTL010694 | 2016.12.29 | Initial |
| 1 | F690501/RF-RTL010694-1 | 2017.01.12 | Retested occupied bandwidth |

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 $A4(210 \text{ mm} \times 297 \text{ mm})$

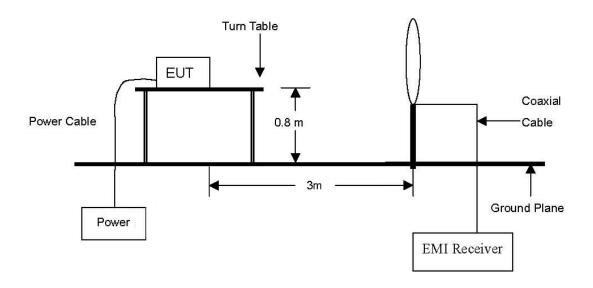


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2. Field Strength of Fundamental and Spurious Emission

2.1. Test Setup

The diagram below shows the test setup that is utilized to make the measurements for emission from 9 km to 30 km Emissions.



2.2. Limit

2.2.1. Radiated emission limits, general requirements

According to §15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (Mb) | Field Strength (microvolts/meter) | Measurement Distance (meter) |
|-------------------|--------------------------------------|------------------------------|
| 0.009 - 0.490 | 2 400/F(kHz) | 300 |
| 0.490 - 1.705 | 24 000/F(kHz) | 30 |
| 1.705 - 30.0 | 30 | 30 |
| 30 - 88 | 100** | 3 |
| 88 - 216 | 150** | 3 |
| 216 - 960 | 200** | 3 |
| Above 960 | 500 | 3 |

^{**} Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 Mb, 76-88 Mb, 174-216 Mb or 470-806 Mb. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections §15.231 and §15.241

The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company.

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 RTT5041-20(2015.10.01)(3)
 Tel. +82 31 428 5700 / Fax. +82 31 427 2370
 A4(210 mm x 297 mm)



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2.3. Test Procedures

Radiated emissions from the EUT were measured according to the dictates of ANSI C63.10:2013.

2.3.1. Test Procedures for emission from 9 kb to 30 kb

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. Then antenna is a loop antenna is fixed at one meter above the ground to determine the maximum value of the field strength. Both parallel and perpendicular of the antenna are set to make the measurement.
- c. For each suspected emission, the EUT was arranged to its worst case and then the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- d. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

Although these tests were performed other than open field test site, adequate comparison measurements were confirmed against 30 meter open field test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 937606.



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2.4. Field Strength of Fundamental Test Result

Ambient temperature : (23 ± 1) °C Relative humidity : 47 % R.H.

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical. The field strength of spurious emission was measured in one orthogonal EUT position (x-axis). Definition of DUT for a orthogonal plane was described in the test setup photo.

| Radiated Emissions | | | Ant. | | rrection Total | | al | Limit | | |
|--|--|----------------|--------|----------------|----------------|------------------------------|--------------------------|-------------------------------|----------------|--|
| Frequency (畑) | Reading (dBμV) | Detect Mode | Pol. | Ant. (dB/m) | Cable (dB) | Actual (dΒμV/m) at 3 m | Actual (dBμV/m) at 300 m | Limit (dΒμV/m) at 300 m | Margin (dB) | |
| Charging mod | Charging mode with client (less than 1 % battery status) | | | | | | | | | |
| 0.165 | 34.80 | Average | Н | 19.57 | 0.10 | 54.47 | -25.53 | 23.25 | 48.78 | |
| Charging mod | de with client | (less than | 50 % b | attery stat | tus) | | | | | |
| 0.161 | 34.60 | Average | Н | 19.57 | 0.09 | 54.26 | -25.74 | 23.47 | 49.21 | |
| Charging mode with client (100 % battery status) | | | | | | | | | | |
| 0.164 | 38.70 | Average | Н | 19.57 | 0.10 | 58.37 | -21.63 | 23.31 | 44.94 | |

Note;

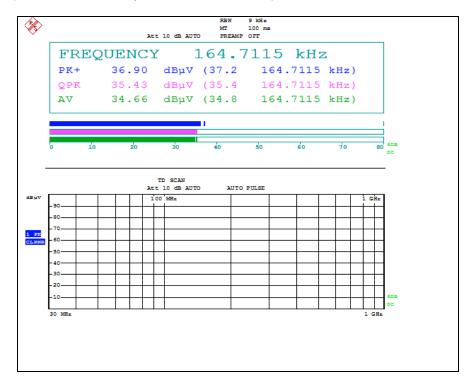
- 1. According to §15.31 (f)(2) 300 m Result($dB\mu V/m$) = 3 m Result($dB\mu V/m$) 40log(300/3) ($dB\mu V/m$).
- 2. According to §15.209 (d), the measurements were tested by using Quasi peak detector except for the frequency bands $9-90~\mathrm{kHz}$, $110-490~\mathrm{kHz}$ and above 1 $~\mathrm{GHz}$ in these three bands on measurements employing an average detector.
- 3. The limit above was calculated based on table of §15.209 (a).



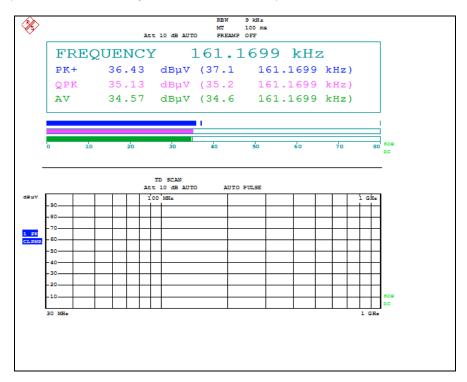
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Test plots

Charging mode (less than 1 % battery status of client device)



Charging mode (less than 50 % battery status of client device)



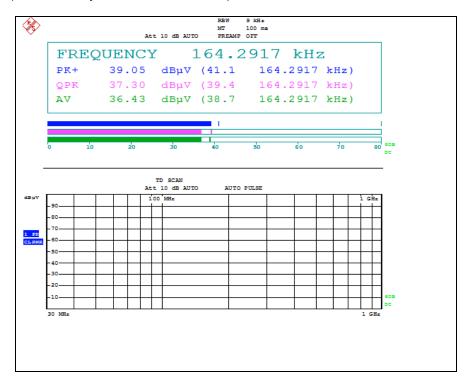
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Charging mode (100 % battery status of client device)





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2.5. Spurious Emission Test Result

Ambient temperature : (23 ± 1) °C Relative humidity : 47 % R.H.

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Charging mode with client device (less than 1 % battery status)

| Radiated Emissions | | | Ant. | Correction Factors | | Total | | Limit | |
|--------------------|-----------------|----------------|------|-----------------------|------------|------------------------|-------------------------|------------------------|----------------|
| Frequency (艦) | Reading (dBμV) | Detect Mode | Pol. | Ant. (dB/m) | Cable (dB) | Actual (dBμV/m) at 3 m | Actual (dBμV/m) at 300m | Limit (dBµV/m) at 300m | Margin (dB) |
| 0.022 | 22.30 | Average | Н | 19.90 | 0.02 | 42.22 | -37.78 | 40.76 | 78.54 |
| 0.042 | 29.40 | Average | Н | 19.70 | 0.03 | 49.13 | -30.87 | 35.14 | 66.01 |
| 0.063 | 26.90 | Average | Н | 19.67 | 0.03 | 46.60 | -33.40 | 31.62 | 65.02 |
| 0.084 | 24.40 | Average | Ι | 19.63 | 0.04 | 44.07 | -35.93 | 29.12 | 65.05 |
| 0.488 | 9.40 | Average | Н | 19.41 | 0.38 | 29.19 | -50.81 | 13.84 | 64.65 |
| Above 0.500 | Not detected | - | - | - | - | - | - | - | - |

Charging mode with client device (less than 50 % battery status)

| Radiated Emissions | | | Ant. | | Correction Total | | al | Limit | |
|--------------------|-----------------|----------------|------|----------------|------------------|------------------------|-------------------------|------------------------------|----------------|
| Frequency (畑) | Reading (dBμV) | Detect Mode | Pol. | Ant. (dB/m) | Cable (dB) | Actual (dBμV/m) at 3 m | Actual (dBμV/m) at 300m | Limit (dΒμV/m) at 300m | Margin (dB) |
| 0.022 | 29.50 | Average | Н | 19.90 | 0.02 | 49.42 | -30.58 | 40.76 | 71.34 |
| 0.035 | 27.90 | Average | Н | 19.70 | 0.03 | 47.63 | -32.37 | 36.72 | 69.09 |
| 0.044 | 28.10 | Average | Н | 19.70 | 0.03 | 47.83 | -32.17 | 34.74 | 66.91 |
| 0.066 | 25.60 | Average | Н | 19.67 | 0.03 | 45.30 | -34.70 | 31.21 | 65.91 |
| 0.249 | 11.30 | Average | Н | 19.53 | 0.17 | 31.00 | -49.00 | 19.68 | 68.68 |
| Above 0.300 | Not detected | - | - | - | - | - | - | - | - |



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Charging mode with client device (100 % battery status)

| Radiated Emissions | | | Ant. | Correction Factors | | Tot | tal | Limit | |
|--------------------|-------------------|----------------|------|--------------------|---------------|------------------------------|--|---|----------------|
| Frequency (脈) | Reading (dBμV) | Detect Mode | Pol. | Ant. (dB/m) | Cable (dB) | Actual (dΒμV/m) at 3 m | Actual (dBµV/m) at 30m or 300 m | Limit (dBµV/m) at 30m or 300 m | Margin (dB) |
| 0.019 | 26.50 | Average | Н | 19.98 | 0.02 | 46.50 | -33.50 | 42.03 | 75.53 |
| 0.038 | 25.90 | Average | Н | 19.70 | 0.03 | 45.63 | -34.37 | 36.01 | 70.38 |
| 0.076 | 26.70 | Average | Н | 19.65 | 0.03 | 46.38 | -33.62 | 29.99 | 63.61 |
| 0.710 | 12.70 | Quasi peak | Н | 19.40 | 0.57 | 32.67 | -7.33 | 30.58 | 37.91 |
| Above 0.800 | Not detected | - | - | - | - | - | - | - | - |

Note;

- 1. According to §15.31 (f)(2)
 - 300 m Result($dB\mu V/m$) = 3 m Result($dB\mu V/m$) 40log(300/3) ($dB\mu V/m$)
 - 30 m Result($dB\mu N/m$) = 3 m Result($dB\mu N/m$) 40log(30/3) ($dB\mu N/m$)
- 2. According to field strength table of general requirement in §15.209 (a), field strength limits below 1.705 Mb were calculated as below.
 - 9 kHz to 490 kHz : $20\log(2\ 400\ /\ F\ (\text{kHz}))$ at $300\ m\ (\text{dB}\mu\text{V/m})$
 - 490 kHz to 1 705 kHz : $20\log(24\ 000\ /\ F\ (kHz))$ at 30 m ($dB\mu V/m$)
- 3. According to §15.209 (d), the measurements were tested by using Quasi peak detector except for the frequency bands $9-90~\mathrm{klz}$, $110-490~\mathrm{klz}$ and above 1 $~\mathrm{GHz}$ in these three bands on measurements employing an average detector.

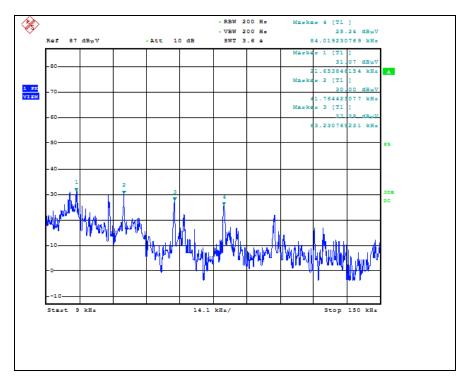


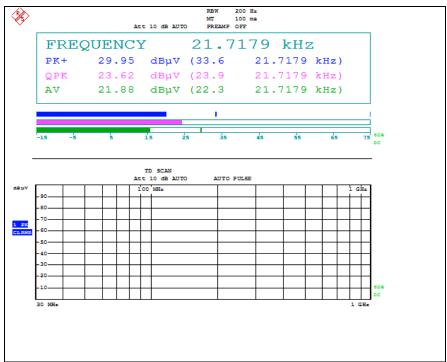
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Test plots

Below 30 Mb

Charging mode (less than 1 % battery status of client device)



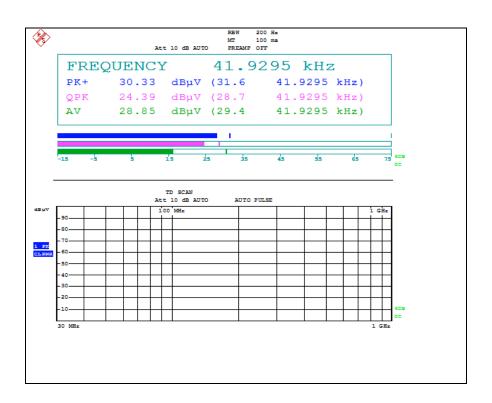


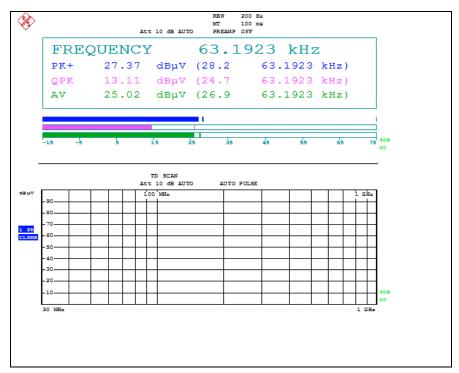
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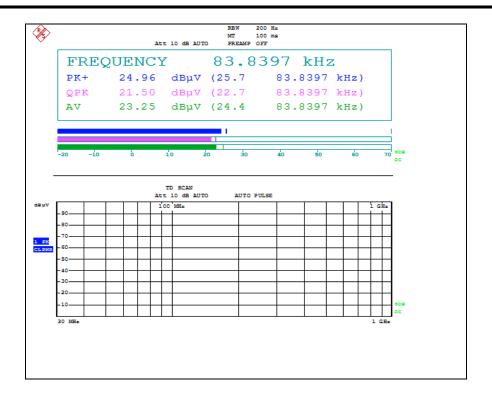
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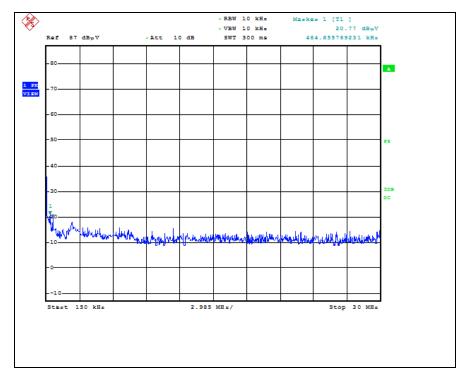






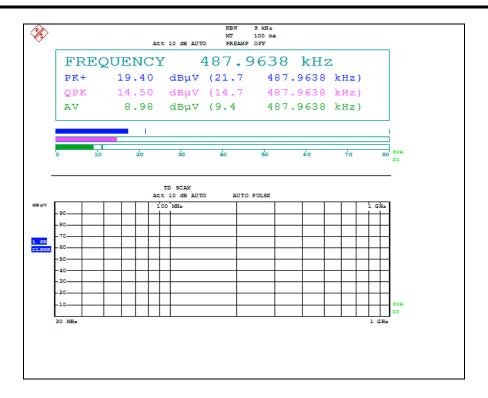
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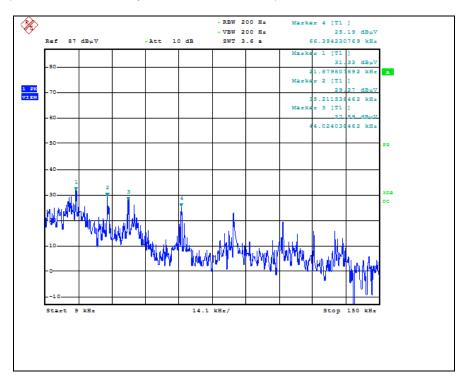




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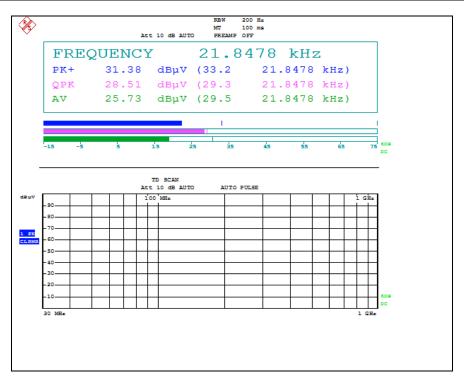


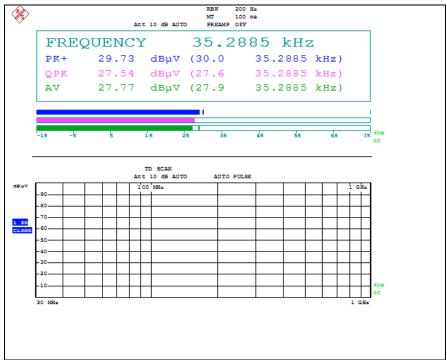
Charging mode (less than 50 % battery status of client device)





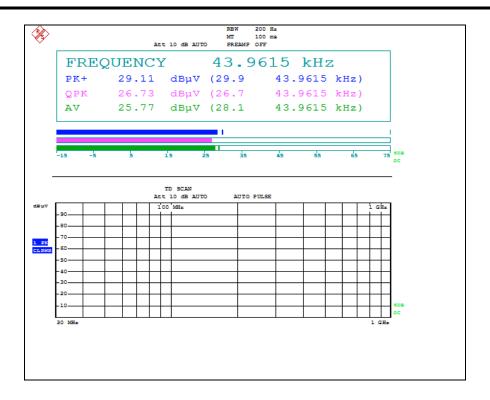
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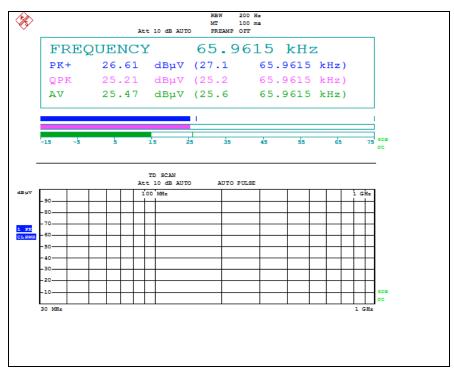






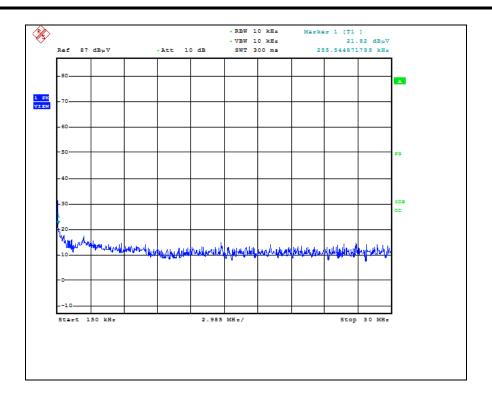
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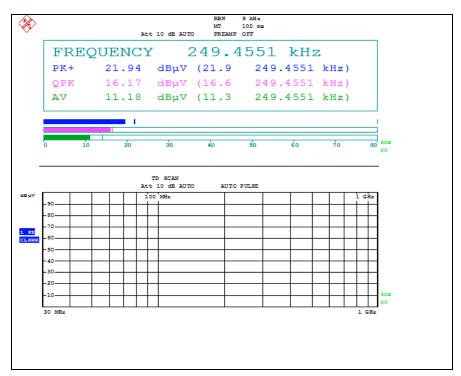






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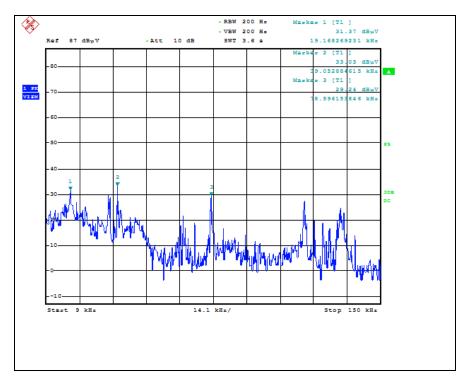


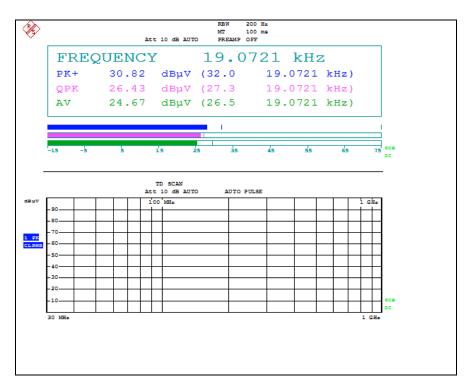




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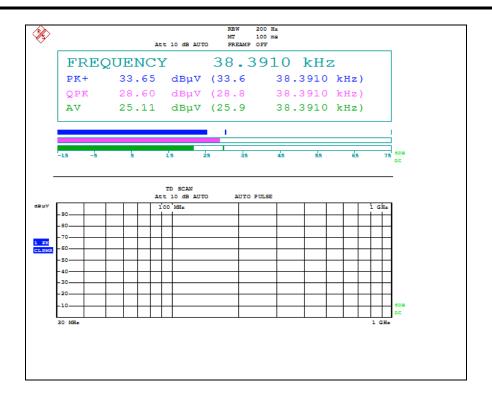
Charging mode (100% battery status of client device)

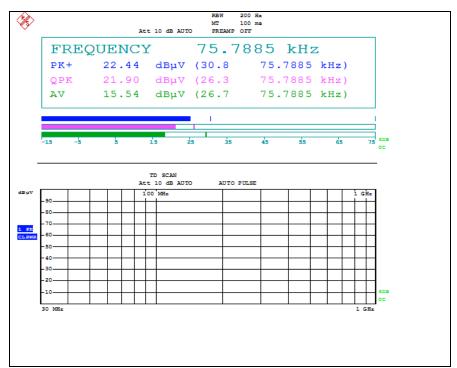






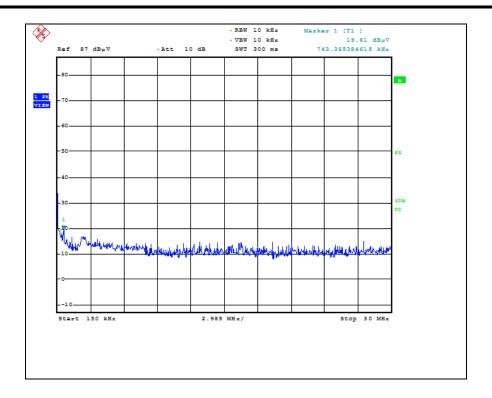
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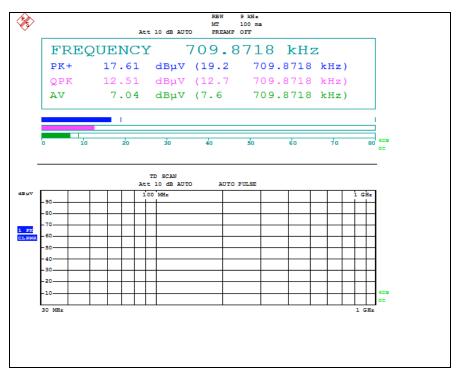






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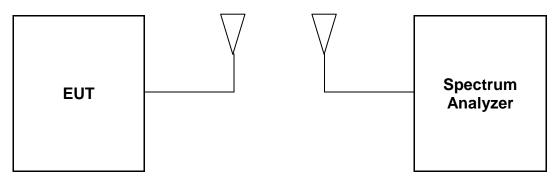




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3. 20 dB Bandwidth

3.1. Test Setup



3.2. Limit

None; for reporting purposed only

3.3. Test Procedure

- a. Span = between 2 to 5 times the 20 dB Bandwidth, RBW = in the range of 1 % to 5 % of the 20 dB Bandwidth, VBW = approximately 3 x RBW, Sweep = auto, Detector = peak, Trace = max hold.
- b. The marker-to-peak function to set the mark to the peak of the emission. Use the marker-delta function to measure 20 $\,\mathrm{d}\mathbb{B}\,$ down one side of the emission. Reset the function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is 20 dB bandwidth of the emission.



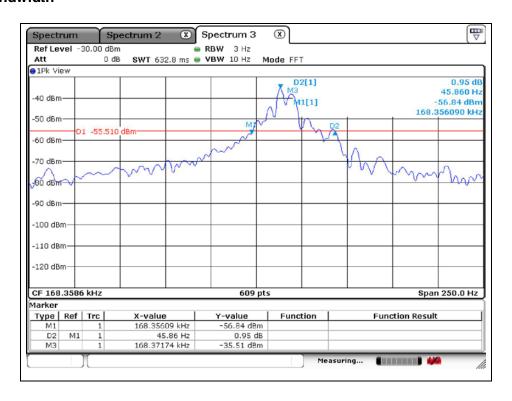
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3.4. Test Result

Ambient temperature : (23 ± 1) °C Relative humidity : 47 % R.H.

| EUT status | 20 dB Bandwidth (版) | Limit |
|---|------------------------|-------------------------|
| With client device (100 % battery status) | 0.046 | Reporting proposed only |

20 dB Bandwidth

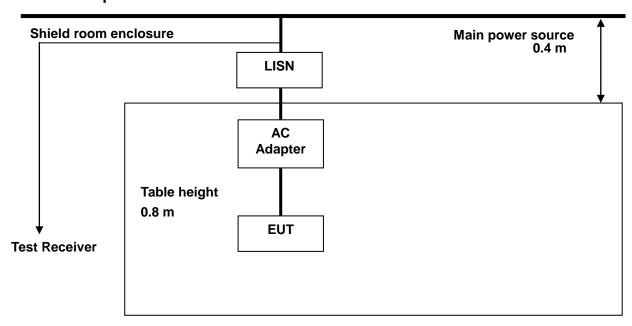




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4. Transmitter AC Power Line Conducted Emission

4.1. Test Setup



4.2. Limit

According to §15.207(a), for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H /50 ohm line impedance stabilization network(LISN).

Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequency ranges.

| Fraguency of Emission (IIII) | Conducted limit (dBµV) | | | |
|------------------------------|------------------------|----------|--|--|
| Frequency of Emission (쌘) | Quasi-peak | Average | | |
| 0.15 - 0.50 | 66 - 56* | 56 - 46* | | |
| 0.50 - 5.00 | 56 | 46 | | |
| 5.00 – 30.0 | 60 | 50 | | |

^{*} Decreases with the logarithm of the frequency.



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4.3. Test Procedures

AC conducted emissions from the EUT were measured according to the dictates of ANSI C63.10:2013

- 1. The test procedure is performed in a $6.5 \text{ m} \times 3.5 \text{ m} \times 3.5 \text{ m}$ (L \times W \times H) shielded room. The EUT along with its peripherals were placed on a 1.0 m (W) \times 1.5 m (L) and 0.8 m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.
- 2. The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room.
- 3. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.
- 4. The excess power cable between the EUT and the LISN was bundled. The power cables of peripherals were unbundled. All connecting cables of EUT and peripherals were moved to find the maximum emission.



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4.4. Test Results

The following table shows the highest levels of conducted emissions on both phase of Hot and Neutral line.

Ambient temperature : (23 ± 1) °C Relative humidity : 47 % R.H.

Frequency range : 0.15 M/z - 30 M/z

Measured Bandwidth : 9 kHz

Charging mode with Client device (less than 50 % status)

| FREQ. | LEVEL(dB,dV) | | LINE | LIMIT(| (dBµV) | MARG | IN(dB) |
|-------|--------------|---------|------|--------|---------|--------|---------|
| (MHz) | Q-Peak | Average | LINE | Q-Peak | Average | Q-Peak | Average |
| 0.48 | 41.60 | 35.10 | N | 56.34 | 46.34 | 14.74 | 11.24 |
| 0.68 | 38.50 | 31.50 | N | 56.00 | 46.00 | 17.50 | 14.50 |
| 1.21 | 39.30 | 30.80 | N | 56.00 | 46.00 | 16.70 | 15.20 |
| 3.42 | 37.10 | 27.90 | N | 56.00 | 46.00 | 18.90 | 18.10 |
| 4.82 | 38.30 | 29.50 | N | 56.00 | 46.00 | 17.70 | 16.50 |
| 16.36 | 43.40 | 33.90 | N | 60.00 | 50.00 | 16.60 | 16.10 |
| 0.48 | 31.80 | 23.30 | Н | 56.34 | 46.34 | 24.54 | 23.04 |
| 1.00 | 30.30 | 22.50 | Н | 56.00 | 46.00 | 25.70 | 23.50 |
| 1.33 | 30.10 | 23.40 | Н | 56.00 | 46.00 | 25.90 | 22.60 |
| 2.45 | 26.30 | 18.70 | Н | 56.00 | 46.00 | 29.70 | 27.30 |
| 4.75 | 32.00 | 24.30 | Н | 56.00 | 46.00 | 24.00 | 21.70 |
| 15.68 | 35.60 | 26.70 | Н | 60.00 | 50.00 | 24.40 | 23.30 |

Note;

- 1. Line (H): Hot, Line (N): Neutral
- 2. All antennas of operation and charging mode with client device (1 %, 50 %, and 100 % of battery) were tested.
 - As worst condition, charging mode with client device (50 %) is reported.
- 3. The limit for Class B device(s) from 150 klb to 30 Mlb are specified in Section of the Title 47 CFR.
- 4. Traces shown in plot were made by using a peak detector and average detector.
- 5. Deviations to the Specifications: None.



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