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Report Number: F690501-RF-RTL003402

| TEST REPORT | | | | | |
|---|---|--|--|--|--|
| - | | | | | |
| | of | | | | |
| | FCC Part 15 Subpart C §15.209 | | | | |
| | FCC ID: 2AV76-NMOK-301W | | | | |
| Equipment Under Test Model Name | : WIRELESS POWER CHARGING SYSTEM : NMOK-301W | | | | |
| Variant Model Name(s) | | | | | |
| Applicant | : NIDEC MOBILITY KOREA CORPORATION | | | | |
| Manufacturer | : NIDEC MOBILITY KOREA CORPORATION | | | | |
| Date of Receipt | : 2022.03.23 | | | | |
| Date of Test(s) | : 2022.05.12 ~ 2022.08.26 | | | | |
| Date of Issue | | | | | |
| In the configuration tested, the EUT complied with the standards specified above. This test report does not assure KOLAS accreditation. 1) The results of this test report are effective only to the items tested. 2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received. | | | | | |
| 3) This test report cannot be reproduced, except in full, without prior written permission of the Company. Tested by: Teo Kim Teo Kim Teo Kim | | | | | |
| SGS Korea Co., Ltd. Gunpo Laboratory | | | | | |

RTT7081-02(2020.10.05)(0)



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1. General Information

1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)

- 10-2, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- Designation number: KR0150

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

Phone No. : +82 31 688 0901

Fax No. : +82 31 688 0921

1.2. Details of Applicant

| Applicant | : | NIDEC MOBILITY KOREA CORPORATION |
|----------------|---|--|
| Address | : | 790-12, Bogaewonsam-ro, Bogae-myeon, Anseong-si, Gyeonggi-do, South Korea, |
| | | 17507 |
| Contact Person | : | Nam, Sang-il |
| Phone No. | : | +82 2 850 5789 |

1.3. Details of Manufacturer

Company : Same as applicant Address : Same as applicant

1.4. Description of EUT

| Kind of Product | WIRELESS POWER CHARGING SYSTEM |
|---------------------|--------------------------------|
| Model Name | NMOK-301W |
| Serial Number | 001 |
| Power Supply | DC 12 V |
| Operation Mode | 5 W, 10 W |
| Frequency Range | 120 kHz |
| Antenna Type | Coil Antenna |
| Antenna Part Number | CM00000484 |
| H/W Version | 1.00 |
| S/W Version | 1.00 |



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1.5. Test Equipment List

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Interval | Cal. Due |
|---------------------|--------------------------------|--------------------------------------|---------------------------|---------------|------------------|---------------|
| Spectrum Analyzer | R&S | FSV30 | 103210 | Dec. 08, 2021 | Annual | Dec. 08, 2022 |
| Signal Generator | R&S | SMBV100A | 255834 | May 25, 2022 | Annual | May 25, 2023 |
| Amplifier | H.P. | 8447F | 2944A03909 | Aug. 04, 2022 | Annual | Aug. 04, 2023 |
| Loop Antenna | Schwarzbeck Mess-Elektronik | FMZB 1519 | 1519-039 | Aug. 23, 2021 | Biennial | Aug. 23, 2023 |
| Bilog Antenna | Schwarzbeck Mess-Elektronik | VULB9163 | 01126 | Feb. 07, 2022 | Annual | Feb. 07, 2023 |
| Test Receiver | R&S | ESU26 | 100109 | Jan. 18, 2022 | Annual | Jan. 18, 2023 |
| Turn Table | Innco systems GmbH | DS 1200 S | N/A | N.C.R. | N/A | N.C.R. |
| Controller | Innco systems GmbH | CONTROLLER CO3000-4P | CO3000/963/38 330516/L | N.C.R. | N/A | N.C.R. |
| Anechoic Chamber | SY Corporation | L × W × H (9.6 m × 6.4 m × 6.6 m) | N/A | N.C.R. | N/A | N.C.R. |
| Coaxial Cable | RFONE | PL360P-292M292M-1.5M- A | 20200324002 | Aug. 18, 2022 | Semi- Annual | Feb. 18, 2023 |
| Coaxial Cable | RFONE | MWX221-NMSNMS (4 m) | J1023142 | Apr. 04, 2022 | Semi- Annual | Oct. 04, 2022 |
| Coaxial Cable | RFONE | 142A SERIES 502839-8 (10 m) | 90000034 | Apr. 04, 2022 | Semi- Annual | Oct. 04, 2022 |

Support Equipment

| Description | Manufacturer | Model | FCC ID |
|------------------|-------------------------------|----------|------------|
| Portable Handset | Samsung Electronics Co., Ltd. | SM-G906S | A3LSMG906S |
| Portable Handset | Samsung Electronics Co., Ltd. | SM-G975U | A3LSMG975U |

Note;

- For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.



1.6. Summary of Test Results

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC Part 15 Subpart C | | | | | |
|---|--|-------------------|--|--|--|
| Section Test Item(s) Result | | | | | |
| 15.209 | Radiated Emission, Spurious Emission and Field Strength of Fundamental | Complied | | | |
| 2.1049 | 20 dB Bandwidth | Complied | | | |
| 15.207 | AC Power Line Conducted Emission | N/A ¹⁾ | | | |

Note;

1) The AC power line test was not performed because the EUT use battery power for operation and which do not operate from the AC power lines.

1.7. Test Procedure(s)

The measurement procedures described in the American National Standard of Procedure for Compliance Testing of unlicensed Wireless Devices (ANSI C63.10-2013).

1.8. 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) + (AMP (dB))

1.9. Test Report Revision

| Revision | Report Number | Date of Issue | Description |
|----------|----------------------|---------------|-------------|
| 0 | F690501-RF-RTL003402 | 2022.09.02 | Initial |



1.10. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| Parameter | Parameter Uncertainty | |
|-----------------------------------|-----------------------|----------------|
| 20 dB Bandwidth | 3.90 kl/z | |
| | Н | 3.30 dB |
| Radiated Emission, 9 klz to 30 Mz | V | 3.30 dB |
| Dedicted Emission holes 4 Min | Н | 4.80 dB |
| Radiated Emission, below 1 GHz | V | 5.20 dB |

All measurement uncertainty values are shown with a coverage factor of k=2 to indicate a 95 % level of confidence.

1.11. Worst Case of Test Configurations

| Charging mode with client device | Mode | | Description |
|--|-------------------|--------------------|--|
| | 5 W | 10 W | |
| Model: SM-G906S FCC ID: A3LSMG906S Model: SM-G975U | Ant. 1: 120 战团 | Ant. 1: 120 klz | 1 % of battery 50 % of battery 99 % of battery |
| FCC ID: A3LSMG975U | SM-G906S | SM-G975U | |

| Mode | Battery | Frequency (朏) | Detect Mode | Reading (dBµN) |
|------|---------|------------------|-------------|-------------------|
| | 1 % | | | <u>66.80</u> |
| 5 W | 50 % | 120 | Average | 65.90 |
| | 99 % | | | 65.90 |
| | 1 % | | | <u>68.50</u> |
| 10 W | 50 % | 120 | Average | 67.90 |
| | 99 % | | | 67.55 |

Note;

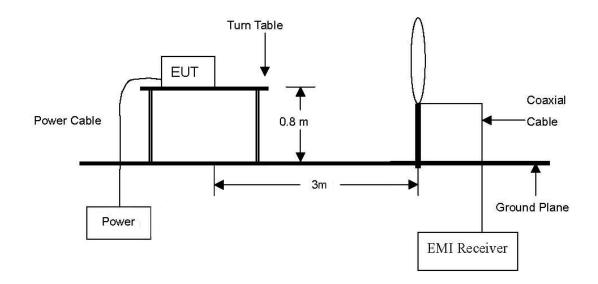
- EUT was investigated with client device under normal charging condition as above then worst value was only reported.



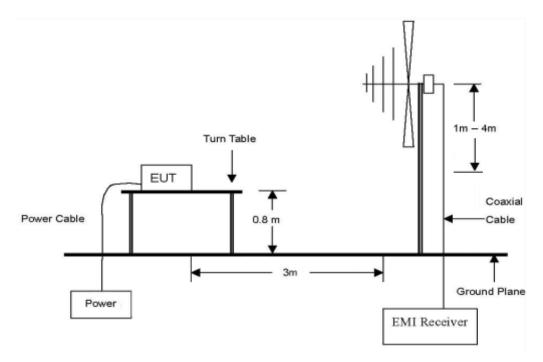
2. Field Strength of Fundamental and Spurious Emission

2.1. Test Setup

The diagram below shows the test setup that is utilized to make the measurements for emission from 9 $\,\rm klz$ to 30 $\,\rm Mlz$



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 Mz to 1 Gz.





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 (胜) | 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., §§15.231 and 15.241

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 🖄 to 30 Mb

- 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 Quasi Peak and Average Detect Function and Specified Bandwidth with Maximum Hold Mode.



2.3.2. Test Procedures for emission from 30 Mb to 1 000 Mb

- 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. During performing radiated emission below 1 GHz, the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1 GHz, the EUT was set 3 meter away from the interference-receiving antenna.
- c. The antenna is a broadband antenna, and its height 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.
- d. 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 table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. For measurements below 1 GHz resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.



2.4. Field Strength of Fundamental Test Result

| Ambient temperature | : | (23 | ± 1) ℃ |
|---------------------|---|-----|---------------|
| Relative humidity | : | 47 | % R.H. |

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

Test Condition: 5 W Operating mode with client device (1 % battery status of client device)

| Radiated Emissions | | Ant. | Correction Factors | | Total | | Limit | | |
|--------------------|--------------------------------|----------------|-----------------------|--------------|------------|------------------------------|--------------------------------|-------------------------------|----------------|
| Frequency (쌘) | Reading (dB ₄ V) | Detect Mode | Pol. | AF (dB/m) | CL (dB) | Actual (dBµV/m) at 3 m | Actual (dBµV/m) at 300 m | Limit (dBµV/m) at 300 m | Margin (dB) |
| Ant. 1 (120 kHz) | Ant. 1 (120 klz) | | | | | | | | |
| 0.120 | 66.80 | Average | Н | 17.90 | 0.02 | 84.72 | 4.72 | 26.02 | 21.30 |

Test Condition: 10 W Operating mode with client device (1 % battery status of client device)

| Radiated Emissions | | Ant. | Correction Factors | | Total | | Limit | | |
|--------------------|-------------------|----------------|-----------------------|--------------|------------|------------------------------|--------------------------------|-------------------------------|----------------|
| Frequency (쌘) | Reading (dBµV) | Detect Mode | Pol. | AF (dB/m) | CL (dB) | Actual (dBµV/m) at 3 m | Actual (dBµN/m) at 300 m | Limit (dBµN/m) at 300 m | Margin (dB) |
| Ant. 1 (120 kHz) | | | | | | | | | |
| 0.120 | 68.50 | Average | Н | 17.90 | 0.02 | 86.42 | 6.42 | 26.02 | 19.60 |

Remark;

- 1. According to §15.31(f)(2),
 - 300 m Result ($dB\mu N/m$) = 3 m Result ($dB\mu N/m$) 40log (300/3) ($dB\mu N/m$).
- 2. According to field strength table of general requirement in §15.209(a), field strength limits below 1.705 M were calculated as below.
 - 9 kHz to 490 kHz: 20log (2 400 / F (kHz)) at 300 m (dB $\mu V/m)$
 - 490 kHz to 1.705 MHz: 20log (24 000/F (kHz)) at 30 m (dB₄N/m)
- 3. According to §15.209(d), the measurements were tested by using Quasi peak detector except for the frequency bands 9-90 kt, 110-490 kt and above 1 Gt in these three bands on measurements employing an average detector.
- 4. The limit above was calculated based on table of §15.209(a).

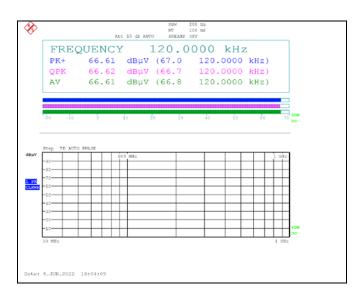


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- Test plots

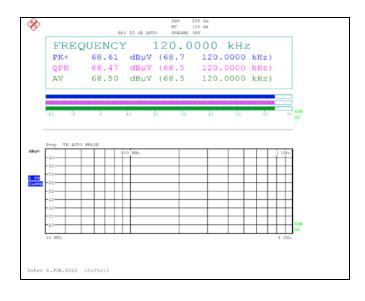
Test Condition: 5 W Operating mode with client device (1 % battery status of client device)

Ant. 1 (120 ktz)



Test Condition: 10 W Operating mode with client device (1 % battery status of client device)

Ant. 1 (120 ktz)





2.5. Spurious Emission Test Result

| Ambient temperature | : | (23 = | ±1) ℃ |
|---------------------|---|-------|--------------|
| Relative humidity | : | 47 | % R.H. |

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

Test Condition: 5 W Operating mode with client device (1 % battery status of client device)

Ant. 1 (120 ktz)

Below 30 Mb

| Radiated Emissions | | Ant. | Corre Fact | | Total | | Limit | | |
|--------------------|-------------------|----------------|---------------|--------------|------------|------------------------------|--|---|----------------|
| Frequency (觃) | Reading (dBµV) | Detect Mode | Pol. | AF (dB/m) | CL (dB) | Actual (dBµN/m) at 3 m | Actual (dB <i>µ</i> V/m) at 300 m or 30 m | Limit (dB <i>µ</i> V/m) at 300 m or 30 m | Margin (dB) |
| 0.035 | 30.70 | Average | Н | 18.09 | 0.01 | 48.80 | -31.20 | 36.72 | 67.92 |
| 0.067 | 20.80 | Average | Н | 17.99 | 0.02 | 38.81 | -41.19 | 31.08 | 72.27 |
| 0.086 | 13.20 | Average | Н | 17.94 | 0.02 | 31.16 | -48.84 | 28.91 | 77.75 |
| 0.090 | 15.40 | Average | Н | 17.93 | 0.02 | 33.35 | -46.65 | 28.52 | 75.17 |
| 0.357 | 27.30 | Average | Н | 17.93 | 0.04 | 45.27 | -34.73 | 16.55 | 51.28 |
| 0.596 | 21.30 | Quasi Peak | Н | 18.04 | 0.07 | 39.41 | -0.59 | 32.10 | 32.69 |
| 0.838 | 20.51 | Quasi Peak | Н | 18.14 | 0.12 | 38.77 | -1.23 | 29.14 | 30.37 |
| Above 1.000 | Not detected | - | - | - | - | - | - | - | - |

Above 30 Mb

| Radi | ated Emission | าร | Ant | Int Correction Factors | | Correction Factors Total | | | Limit | |
|-------------------|-------------------|----------------|------|------------------------|------------------|--------------------------|-------------------|----------------|-------|--|
| Frequency (Mb) | Reading (dBµV) | Detect Mode | Pol. | AF (dB/m) | AMP + CL (dB) | Actual (dBµN/m) | Limit (dBµN/m) | Margin (dB) | | |
| 33.38 | 47.10 | Peak | V | 16.48 | -26.70 | <u>36.88</u> | 40.00 | 3.12 | | |
| 79.21 | 39.70 | Peak | V | 12.92 | -26.15 | 26.47 | 40.00 | 13.53 | | |
| 109.96 | 36.40 | Peak | н | 17.40 | -25.84 | 27.96 | 43.50 | 15.54 | | |
| 150.99 | 44.10 | Peak | V | 13.90 | -25.44 | 32.56 | 43.50 | 10.94 | | |
| 199.35 | 43.20 | Peak | V | 17.17 | -24.86 | 35.51 | 43.50 | 7.99 | | |
| 278.10 | 43.40 | Peak | н | 18.62 | -24.28 | 37.74 | 46.00 | 8.26 | | |
| Above 300.00 | Not detected | - | - | - | - | - | - | - | | |



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Test Condition: 10 W Operating mode with client device (1 % battery status of client device)

Ant. 1 (120 🗤)

Below 30 Mb

| Radiated Emissions | | Ant. | | Correction Factors | | Total | | Limit | |
|--------------------|-------------------|----------------|------|-----------------------|------------|------------------------------|--|---|----------------|
| Frequency (账) | Reading (dBµV) | Detect Mode | Pol. | AF (dB/m) | CL (dB) | Actual (dBµN/m) at 3 m | Actual (dB <i>µ</i> V/m) at 300 m or 30 m | Limit (dB _/ N/m) at 300 m or 30 m | Margin (dB) |
| 0.035 | 31.10 | Average | Н | 18.09 | 0.01 | 49.20 | -30.80 | 36.72 | 67.52 |
| 0.070 | 9.20 | Average | Н | 17.99 | 0.02 | 27.21 | -52.79 | 30.70 | 83.49 |
| 0.078 | 8.70 | Average | Н | 17.96 | 0.02 | 26.68 | -53.32 | 29.76 | 83.08 |
| 0.094 | 13.40 | Quasi Peak | Н | 17.92 | 0.02 | 31.34 | -48.66 | 28.14 | 76.80 |
| 0.359 | 32.40 | Average | Н | 17.93 | 0.04 | 50.37 | -29.63 | 16.50 | 46.13 |
| 0.599 | 27.60 | Quasi Peak | Н | 18.04 | 0.07 | 45.71 | 5.71 | 32.06 | 26.35 |
| 0.837 | 18.14 | Quasi Peak | Н | 18.13 | 0.12 | 36.39 | -3.61 | 29.15 | 32.76 |
| Above 1.000 | Not detected | - | - | - | - | - | - | - | - |

Above 30 Mb

| Radi | ated Emission | าร | Ant | Ant Correction Factors | | Total | Total Limit | | |
|-------------------|--------------------------------|----------------|------|------------------------|------------------|--------------------|-------------------|----------------|--|
| Frequency (Mb) | Reading (dB _µ N) | Detect Mode | Pol. | AF (dB/m) | AMP + CL (dB) | Actual (dBµN/m) | Limit (dBµV/m) | Margin (dB) | |
| 32.87 | 46.00 | Quasi Peak | V | 16.40 | -26.70 | 35.70 | 40.00 | 4.30 | |
| 79.19 | 40.70 | Peak | V | 12.92 | -26.15 | 27.47 | 40.00 | 12.53 | |
| 108.72 | 38.50 | Peak | Н | 17.53 | -25.86 | 30.17 | 43.50 | 13.33 | |
| 151.08 | 44.50 | Peak | V | 13.90 | -25.44 | 32.96 | 43.50 | 10.54 | |
| 199.02 | 44.10 | Peak | V | 17.20 | -24.86 | 36.44 | 43.50 | 7.06 | |
| 279.99 | 46.20 | Peak | Н | 18.70 | -24.26 | 40.64 | 46.00 | 5.36 | |
| Above 300.00 | Not detected | - | - | - | - | - | - | - | |



Remark;

- 1. According to §15.31 (f)(2),
 - 300 m Result ($dB\mu N/m$) = 3 m Result ($dB\mu N/m$) 40log (300/3) ($dB\mu N/m$)
 - 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 Mz were calculated as below.
 - 9 kHz to 490 kHz: 20log (2 400 / F (kHz)) at 300 m (dBµN/m)
 - 490 kHz to 1.705 MHz: 20log (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 kt, 110-490 kt and above 1 Gt in these three bands on measurements employing an average detector.
- 4. The limit above was calculated based on table of §15.209 (a).
- 5. Radiated spurious emission measurement as below 30 Mb.
- (Actual ($dB\mu A/m$) at $3m = Reading (dB\mu N) + AF (dB/m) + CL (dB)$)
- 6. Radiated spurious emission measurement as above 30 $\,{\rm Mb}.$
 - (Actual ($dB\mu A/m$) = Reading ($dB\mu V$) + AF (dB/m) + CL (dB) + AMP (dB))
- 7. According to §15.31(o), emission levels are not report much lower than the limits by over 20 dB.



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- Test plots

Test Condition: 5 W Operating mode with client device (1 % battery status of client device)

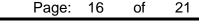
Ant. 1 (120 ktz)

Below 30 Mb



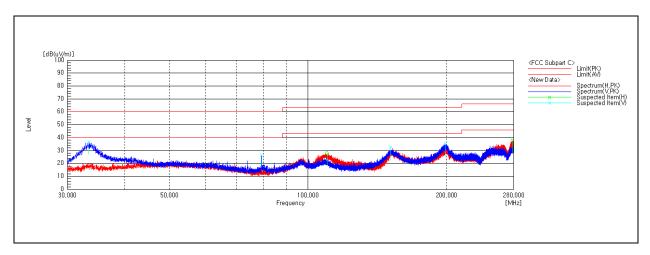


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Above 30 Mb



Remark;

- Traces shown in the plot were made by using a peak detector.



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Test Condition: 10 W Operating mode with client device (1 % battery status of client device)

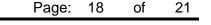
Ant. 1 (120 kt/z)

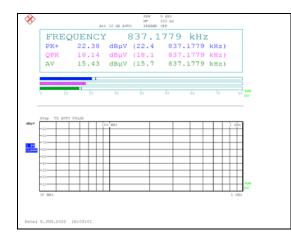
Below 30 Mb



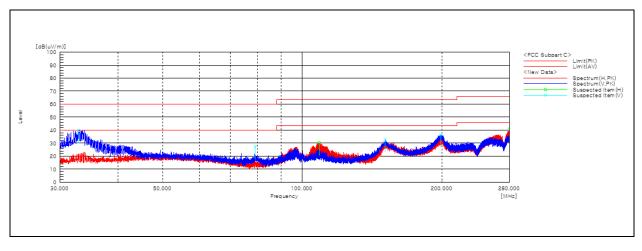


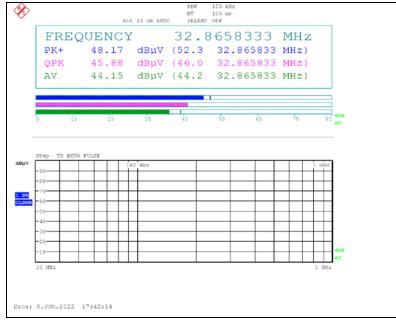
Report Number: F690501-RF-RTL003402





Above 30 Mb





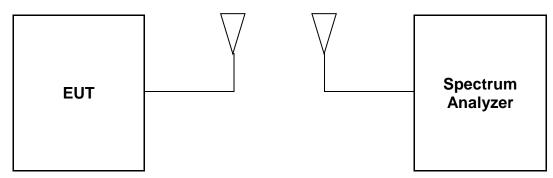
Remark;

- Traces shown in the plot were made by using a peak detector.



3. 20 dB Bandwidth

3.1. Test Setup



3.2. Limit

None; for reporting purposed only

3.3. Test Procedure

- a. Span = set to capture all products of the modulation process, including the emission skirts. RBW = 200 Hz, VBW = 200 Hz, 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 dB 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. |

Test Condition: 5 W Operating mode with client device (1 % battery status of client device)

| Antenna | Frequency (朏) | EUT Status | 20 dB Bandwidth (版) | Limit |
|---------|------------------|---|------------------------|-------------------------|
| 1 | 120 | With client device (1 % battery status of client device) | 0.521 | Reporting proposed only |

Test Condition: 10 W Operating mode with client device (1 % battery status of client device)

| Antenna | Frequency (述) | EUT Status | 20 dB Bandwidth (版) | Limit |
|---------|------------------|---|------------------------|-------------------------|
| 1 | 120 | With client device (1 % battery status of client device) | 0.514 | Reporting proposed only |

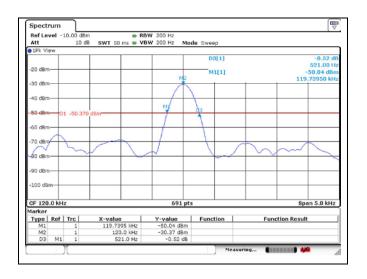


Report Number: F690501-RF-RTL003402

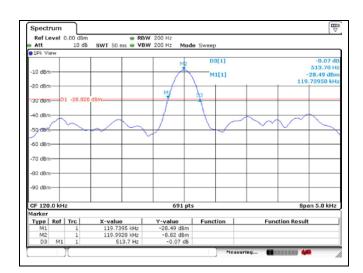
- Test plots

Test Condition: 5 W Operating mode with client device (1 % battery status of client device)

Ant. 1 (120 🖄



Test Condition: 10 W Operating mode with client device (1 % battery status of client device) Ant. 1 (120 脸)



- End of the Test Report -