

TEST REPORT

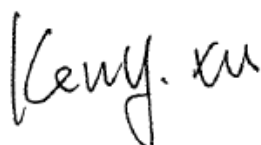
Application No.: SZEM2001000531CR
Applicant: SHENZHEN DNS INDUSTRIES CO., LTD.
Address of Applicant: 23/F Building A, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian, Shenzhen, China
Manufacturer: SHENZHEN DNS INDUSTRIES CO., LTD.
Address of Manufacturer: 23/F Building A, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian, Shenzhen, China
Factory: HUIZHOU D&S CABLE CO., LTD.
Address of Factory: LONGJIN DONGJIANG INDUSTRY ZONE, SHUIKOU, HUICHENG, HUIZHOU, GUANGDONG, CHINA

Equipment Under Test (EUT):
EUT Name: WIRELESS CHARGER
Model No.: WD-224C
Trade mark: DNS
FCC ID: ZBCWD-224C
Standard(s) : 47 CFR Part 15, Subpart C
Date of Receipt: 2020-01-16
Date of Test: 2020-01-19 to 2020-03-16
Date of Issue: 2020-03-19

Test Result:

PASS*

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



Keny Xu
 EMC Laboratory Manager



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| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2020-03-19 | | Original |
| | | | | |
| | | | | |

| | | | |
|---------------------------------|--|---|--|
| Authorized for issue by: | | | |
| | |  | |
| | | <hr/> Peter Geng /Project Engineer | |
| | |  | |
| | | <hr/> Eric Fu /Reviewer | |



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2 Test Summary

| Radio Spectrum Technical Requirement | | | | |
|--------------------------------------|---------------------------|--------|----------------------------------|--------|
| Item | Standard | Method | Requirement | Result |
| Antenna Requirement | 47 CFR Part 15, Subpart C | N/A | 47 CFR Part 15, Subpart C 15.203 | Pass |

| Radio Spectrum Matter Part | | | | |
|---|---------------------------|-----------------------------------|---|--------|
| Item | Standard | Method | Requirement | Result |
| Conducted Emissions at AC Power Line (150kHz-30MHz) | 47 CFR Part 15, Subpart C | ANSI C63.10 (2013) Section 6.2 | 47 CFR Part 15, Subpart C 15.207 | Pass |
| 20dB Bandwidth | 47 CFR Part 15, Subpart C | ANSI C63.10 (2013) Section 6.9.2 | 47 CFR Part 15, Subpart C 15.215 | Pass |
| Restricted Bands | 47 CFR Part 15, Subpart C | ANSI C63.10 (2013) Section 6.10.5 | 47 CFR Part 15, Subpart C 15.205 | Pass |
| Radiated Emissions (9kHz-30MHz) | 47 CFR Part 15, Subpart C | ANSI C63.10 (2013) Section 6.4 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |
| Radiated Emissions (30MHz-1GHz) | 47 CFR Part 15, Subpart C | ANSI C63.10 (2013) Section 6.5 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |



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8.2 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS).....32



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4 General Information

4.1 Details of E.U.T.

| | |
|----------------------|---|
| Power Supply: | AC/DC adapter information, Input: AC 100-240V, 50/60Hz, 0.5A Output: DC 12V/1.5A, 9V/2A, 5V/3A for wireless charger, Input: DC 5V/3A, 9V/2A Output: wireless charger 1: 5W, 7.5W, 10W wireless charger 2: 5W |
| Cable: | USB A to Type C cable: 100cm, unshielded |
| Operation frequency: | 110.26-146.47kHz |
| Antenna Type: | Loop Antenna |
| Modulation Type: | Load Modulation |

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------------|--------------|-----------|--------------|
| iPhone 8 | Apple | A1863 | F4GVQ656JC6D |
| SAMSUNG Galaxy S8 | SAMSUNG | SM-G9500 | R28J9140LPB |

4.3 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|--------------------------------------|
| 1 | Radio Frequency | $\pm 7.25 \times 10^{-8}$ |
| 2 | Occupied Bandwidth | $\pm 3\%$ |
| 3 | Conduction emission | $\pm 3.0\text{dB}$ (150kHz to 30MHz) |
| 4 | Radiated Spurious emission test | $\pm 4.5\text{dB}$ (Below 1GHz) |
| 5 | Temperature test | $\pm 1^\circ\text{C}$ |
| 6 | Humidity test | $\pm 3\%$ |
| 7 | Supply voltages | $\pm 1.5\%$ |
| 8 | Time | $\pm 3\%$ |



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

| Conducted Emissions at AC Power Line (150kHz-30MHz) | | | | | |
|---|------------------|-----------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Shielding Room | ZhongYu Electron | GB-88 | SEM001-06 | 2019-06-13 | 2022-06-12 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM024-01 | 2019-07-11 | 2020-07-10 |
| LISN | Rohde & Schwarz | ENV216 | SEM007-01 | 2019-09-24 | 2020-09-23 |
| LISN | ETS-LINDGREN | 3816/2 | SEM007-02 | 2019-04-01 | 2020-03-31 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | SEM004-02 | 2019-04-01 | 2020-03-31 |

| Radiated Emissions (9kHz-30MHz) | | | | | |
|---------------------------------|----------------------|-----------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| 10m Semi-Anechoic Chamber | SAEMC | FSAC1018 | SEM001-03 | 2018-03-31 | 2021-03-30 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM029-01 | 2019-07-11 | 2020-07-10 |
| EMI Test Receiver | Rohde & Schwarz | ESR | SEM004-03 | 2019-04-01 | 2020-03-31 |
| Trilog-Broadband Antenna | Schwarzbeck | VULB9168 | SEM003-18 | 2019-08-08 | 2022-08-07 |
| Pre-amplifier | Sonoma Instrument Co | 310N | SEM005-04 | 2019-04-12 | 2020-04-11 |
| Active Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2017-08-22 | 2020-08-21 |

| Radiated Emissions (30MHz-1GHz) | | | | | |
|---------------------------------|----------------------|-----------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| 10m Semi-Anechoic Chamber | SAEMC | FSAC1018 | SEM001-03 | 2018-03-31 | 2021-03-30 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM029-01 | 2019-07-11 | 2020-07-10 |
| EMI Test Receiver | Rohde & Schwarz | ESR | SEM004-03 | 2019-04-01 | 2020-03-31 |
| Trilog-Broadband Antenna | Schwarzbeck | VULB9168 | SEM003-18 | 2019-08-08 | 2022-08-07 |
| Pre-amplifier | Sonoma Instrument Co | 310N | SEM005-04 | 2019-04-12 | 2020-04-11 |
| Active Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2017-08-22 | 2020-08-21 |



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20 dB bandwidth

| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date (yyyy-mm-dd) | Cal. Due date (yyyy-mm-dd) |
|---|------------------------------|--------------------------|---------------|------------------------|----------------------------|
| Shielding Room | SAEMC | MSR733 | SEM001-09 | 2019-06-13 | 2022-06-12 |
| DC Power Supply | ZhaoXin | PS-3005D | SEM011-05 | 2019-09-24 | 2020-09-23 |
| Spectrum Analyzer (20Hz-43GHz) | Rohde & Schwarz | FSU43 | SEM004-08 | 2019-04-12 | 2020-04-11 |
| Signal Generator (9kHz-40GHz) | KEYSIGHT | N5173B | SEM006-05 | 2019-09-28 | 2020-09-27 |
| Measurement Software | JS Tonscend | JS1120-2 BT/WIFI V2.6 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM031-01 | 2019-07-11 | 2020-07-10 |
| Attenuator | Weinschel Associates | WA41 | SEM021-09 | N/A | N/A |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002 | SEM002-15 | 2019-04-01 | 2020-03-31 |

Restricted Bands

| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date (yyyy-mm-dd) | Cal. Due date (yyyy-mm-dd) |
|---|------------------------------|--------------------------|---------------|------------------------|----------------------------|
| Shielding Room | SAEMC | MSR733 | SEM001-09 | 2019-06-13 | 2022-06-12 |
| DC Power Supply | ZhaoXin | PS-3005D | SEM011-05 | 2019-09-24 | 2020-09-23 |
| Spectrum Analyzer (20Hz-43GHz) | Rohde & Schwarz | FSU43 | SEM004-08 | 2019-04-12 | 2020-04-11 |
| Signal Generator (9kHz-40GHz) | KEYSIGHT | N5173B | SEM006-05 | 2019-09-28 | 2020-09-27 |
| Measurement Software | JS Tonscend | JS1120-2 BT/WIFI V2.6 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM031-01 | 2019-07-11 | 2020-07-10 |
| Attenuator | Weinschel Associates | WA41 | SEM021-09 | N/A | N/A |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002 | SEM002-15 | 2019-04-01 | 2020-03-31 |



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| General used equipment | | | | | |
|---------------------------------|---|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-03 | 2019-09-26 | 2020-09-25 |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-04 | 2019-09-26 | 2020-09-25 |
| Humidity/ Temperature Indicator | Mingle | N/A | SEM002-08 | 2019-09-26 | 2020-09-25 |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2019-04-04 | 2020-04-03 |



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

6.1.2 Conclusion

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement.

Antenna location: Refer to internal photos.



7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

| Frequency of emission(MHz) | Conducted limit(dBμV) | |
|----------------------------|-----------------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreases with the logarithm of the frequency.



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7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 50.5 % RH Atmospheric Pressure: 1020 mbar

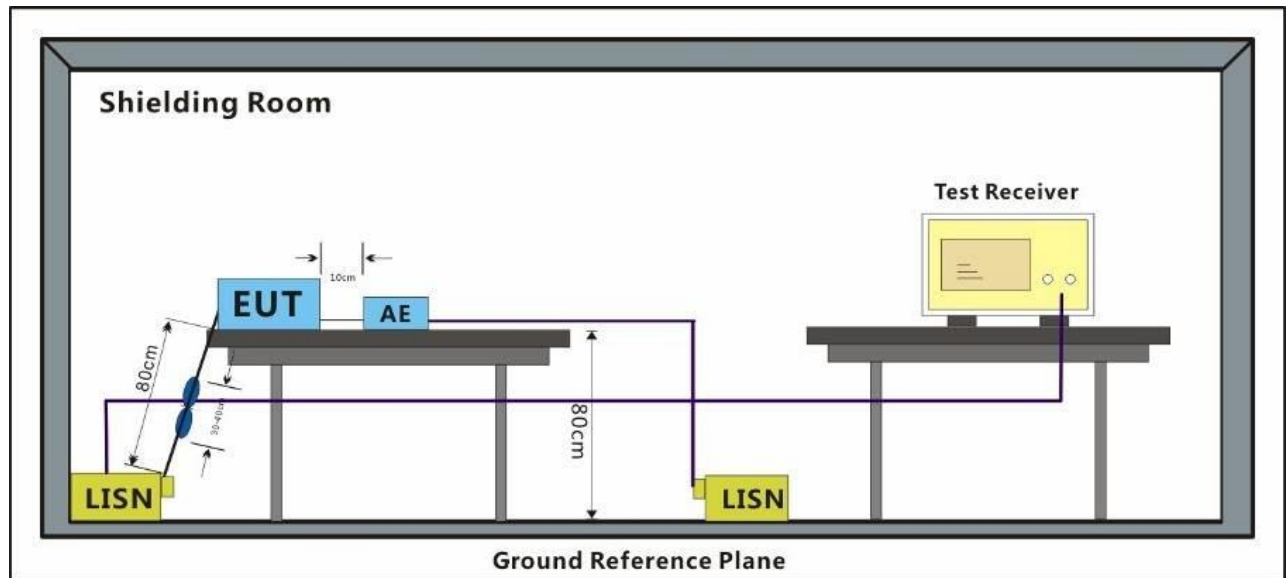
Pretest these modes to find the worst case:

- a: Charge mode_Keep the EUT charging(wireless charger 1: 5W)
- b: Charge mode_Keep the EUT charging(wireless charger 1: 7.5W)
- c: Charge mode_Keep the EUT charging(wireless charger 1: 10W)
- d: Charge mode_Keep the EUT charging(wireless charger 2: 5W)
- e: Charge mode_Keep the EUT charging(wireless charger 1: 5W+wireless charger 2: 5W)
- f: Charge mode_Keep the EUT charging(wireless charger 1: 7.5W+wireless charger 2: 5W)
- g: Charge mode_Keep the EUT charging(wireless charger 1: 10W+wireless charger 2: 5W)

The worst case for final test:

- g: Charge mode_Keep the EUT charging(wireless charger 1: 10W+wireless charger 2: 5W)

7.1.2 Test Setup Diagram



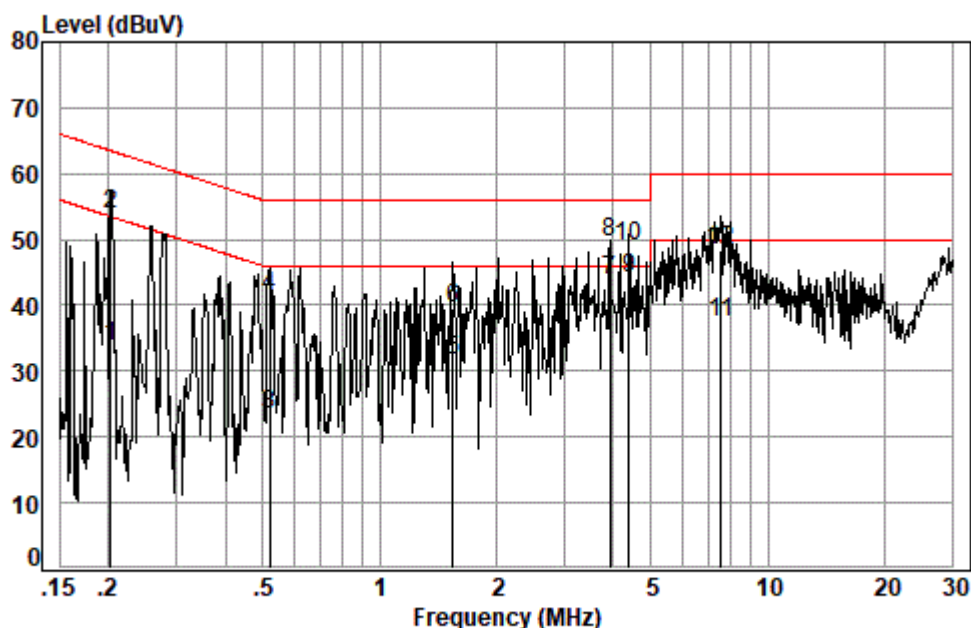
7.1.3 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor



Mode:g; Line:Live Line



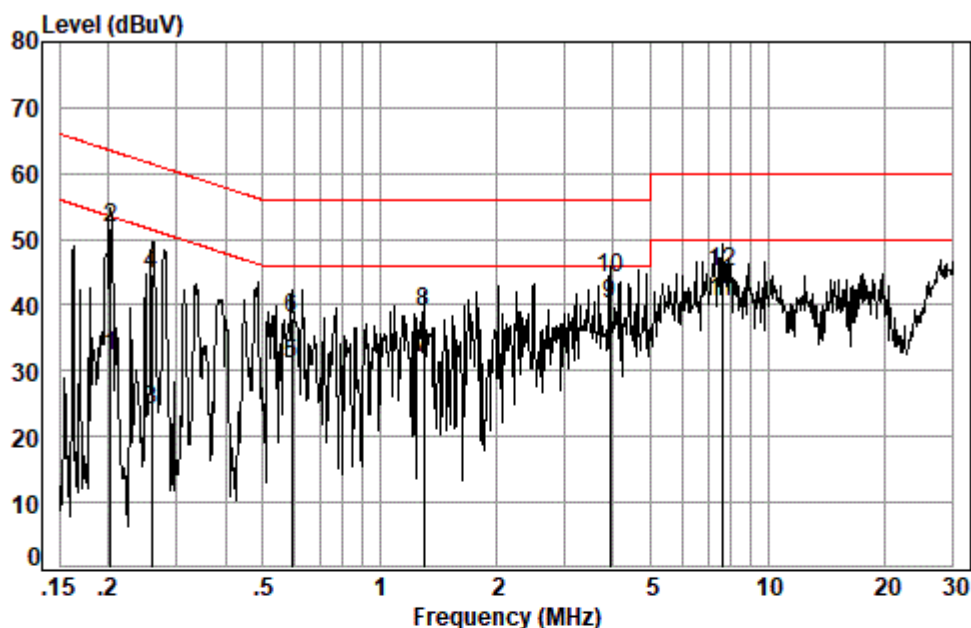
Site : Shielding Room
Condition: Line
Job No. : 00531CR
Test mode: g

| | Freq | Cable Loss | LISN Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark |
|----|--------|------------|-------------|------------|-------------|------------|------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.2029 | 0.02 | 9.59 | 24.30 | 33.91 | 53.49 | -19.58 | Average |
| 2 | 0.2029 | 0.02 | 9.59 | 44.12 | 53.73 | 63.49 | -9.76 | QP |
| 3 | 0.5210 | 0.06 | 9.59 | 13.66 | 23.31 | 46.00 | -22.69 | Average |
| 4 | 0.5210 | 0.06 | 9.59 | 31.79 | 41.44 | 56.00 | -14.56 | QP |
| 5 | 1.5436 | 0.13 | 9.61 | 21.77 | 31.51 | 46.00 | -14.49 | Average |
| 6 | 1.5436 | 0.13 | 9.61 | 29.87 | 39.61 | 56.00 | -16.39 | QP |
| 7 | 3.9169 | 0.16 | 9.65 | 34.10 | 43.91 | 46.00 | -2.09 | Average |
| 8 | 3.9169 | 0.16 | 9.65 | 39.80 | 49.61 | 56.00 | -6.39 | QP |
| 9 | 4.3838 | 0.16 | 9.66 | 34.40 | 44.22 | 46.00 | -1.78 | Average |
| 10 | 4.3838 | 0.16 | 9.66 | 39.20 | 49.02 | 56.00 | -6.98 | QP |
| 11 | 7.5658 | 0.17 | 9.74 | 27.65 | 37.56 | 50.00 | -12.44 | Average |
| 12 | 7.5658 | 0.17 | 9.74 | 38.45 | 48.36 | 60.00 | -11.64 | QP |



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Mode:g; Line:Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00531CR
Test mode: g

| | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|----|--------|------------|-------------|------------|-------|------------|------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.2029 | 0.02 | 9.55 | 22.70 | 32.27 | 53.49 | -21.22 | Average |
| 2 | 0.2029 | 0.02 | 9.55 | 42.29 | 51.86 | 63.49 | -11.63 | QP |
| 3 | 0.2589 | 0.03 | 9.54 | 14.59 | 24.16 | 51.47 | -27.31 | Average |
| 4 | 0.2589 | 0.03 | 9.54 | 35.14 | 44.71 | 61.47 | -16.76 | QP |
| 5 | 0.5948 | 0.07 | 9.55 | 21.30 | 30.92 | 46.00 | -15.08 | Average |
| 6 | 0.5948 | 0.07 | 9.55 | 28.25 | 37.87 | 56.00 | -18.13 | QP |
| 7 | 1.3029 | 0.12 | 9.55 | 22.29 | 31.96 | 46.00 | -14.04 | Average |
| 8 | 1.3029 | 0.12 | 9.55 | 29.22 | 38.89 | 56.00 | -17.11 | QP |
| 9 | 3.9222 | 0.16 | 9.60 | 30.44 | 40.20 | 46.00 | -5.80 | Average |
| 10 | 3.9222 | 0.16 | 9.60 | 34.47 | 44.23 | 56.00 | -11.77 | QP |
| 11 | 7.6060 | 0.17 | 9.72 | 30.45 | 40.34 | 50.00 | -9.66 | Average |
| 12 | 7.6060 | 0.17 | 9.72 | 35.05 | 44.94 | 60.00 | -15.06 | QP |



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7.2 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215
Test Method: ANSI C63.10 (2013) Section 6.9.2
Limit:

For report reference only



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7.2.1 E.U.T. Operation

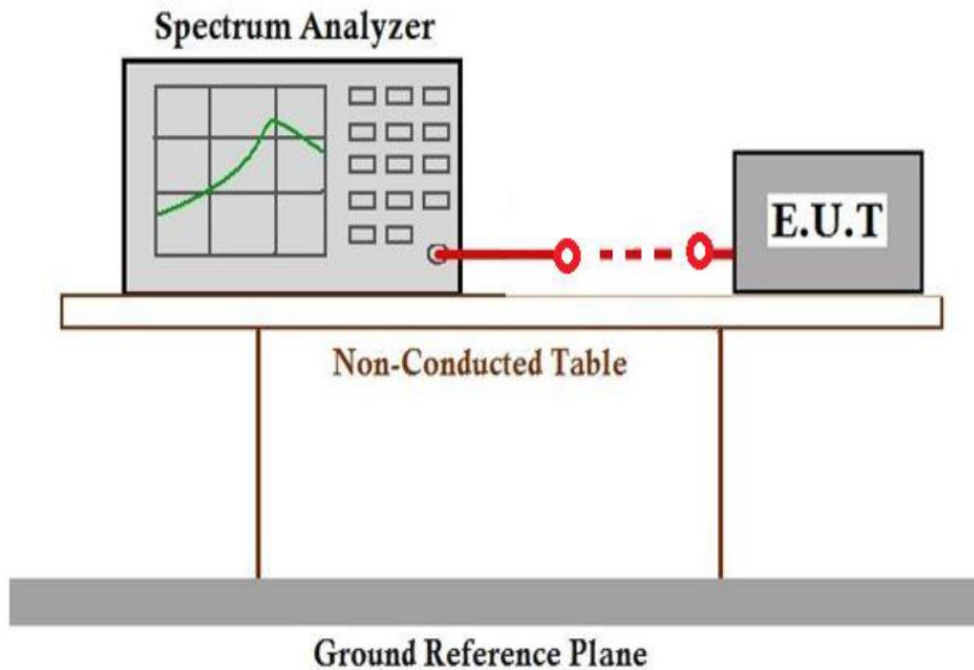
Operating Environment:

Temperature: 23.6 °C Humidity: 42.6 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:

- a: Charge mode_Keep the EUT charging(wireless charger 1: 5W)
 - b: Charge mode_Keep the EUT charging(wireless charger 1: 7.5W)
 - c: Charge mode_Keep the EUT charging(wireless charger 1: 10W)
 - d: Charge mode_Keep the EUT charging(wireless charger 2: 5W)
 - e: Charge mode_Keep the EUT charging(wireless charger 1: 5W+wireless charger 2: 5W)
 - f: Charge mode_Keep the EUT charging(wireless charger 1: 7.5W+wireless charger 2: 5W)
 - g: Charge mode_Keep the EUT charging(wireless charger 1: 10W+wireless charger 2: 5W)
- Worst case g: Charge mode_Keep the EUT charging(wireless charger 1: 10W+wireless charger 2: 5W)

7.2.2 Test Setup Diagram



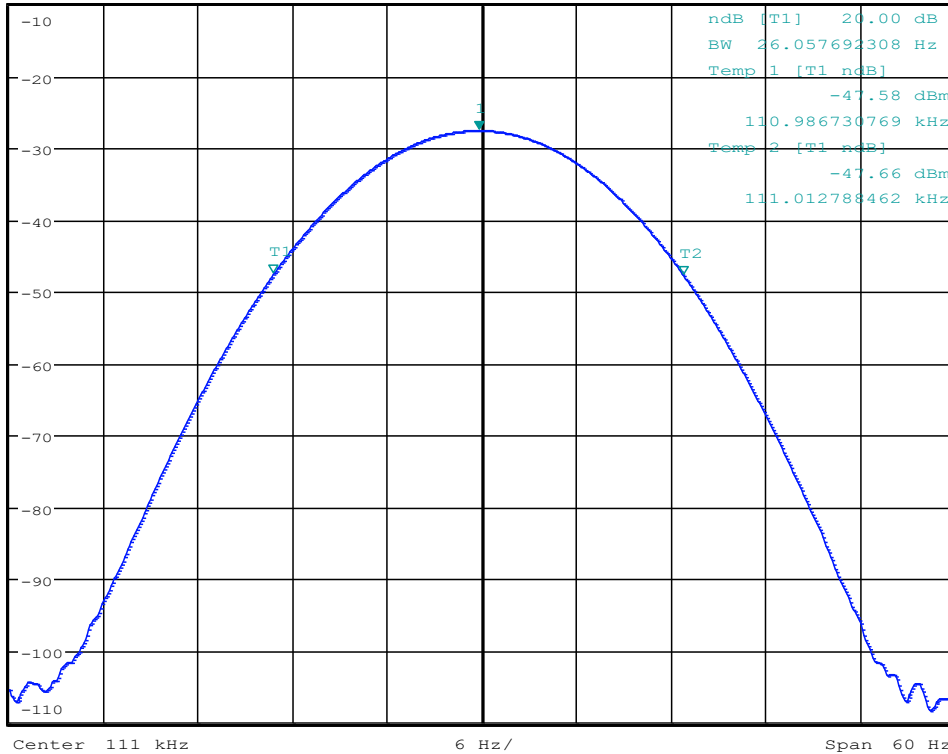
7.2.3 Measurement Procedure and Data





Ref -10 dBm *Att 5 dB *RBW 10 Hz *VBW 30 Hz SWT 1 s Marker 1 [T1] -27.55 dBm 110.999807692 kHz

1 PK
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7.3 Restricted Bands

Test Requirement 47 CFR Part 15, Subpart C 15.205
 Test Method: ANSI C63.10 (2013) Section 6.10.5
 Limit:

The fundamental wave can not fall in the restricted band 90KHz-110KHz

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 42.6 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:

a: Charge mode_Keep the EUT charging(wireless charger 1: 5W)

b: Charge mode_Keep the EUT charging(wireless charger 1: 7.5W)

c: Charge mode_Keep the EUT charging(wireless charger 1: 10W)

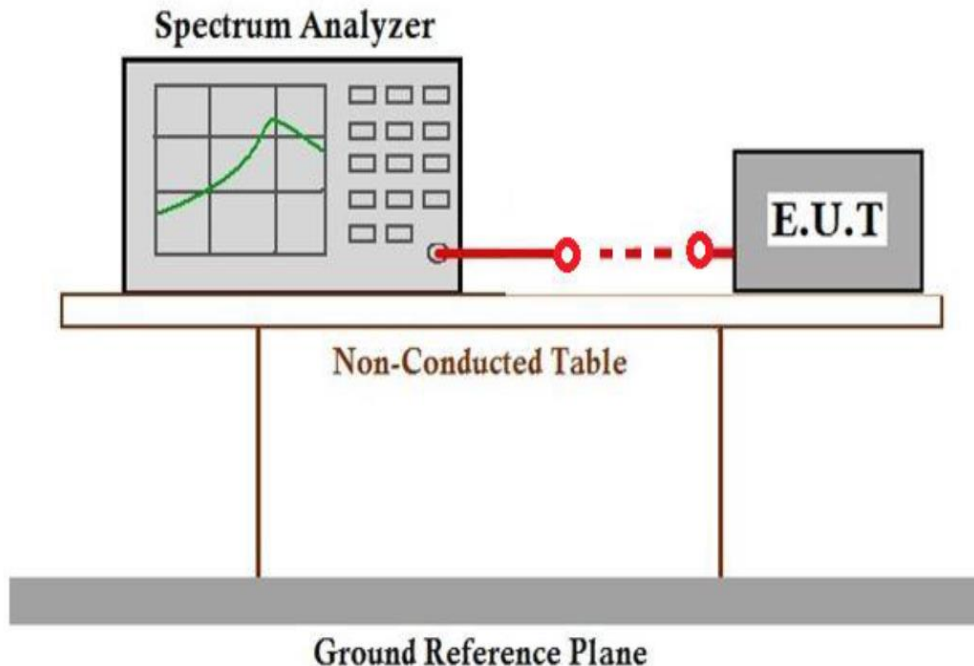
d: Charge mode_Keep the EUT charging(wireless charger 2: 5W)

e: Charge mode_Keep the EUT charging(wireless charger 1: 5W+wireless charger 2: 5W)

f: Charge mode_Keep the EUT charging(wireless charger 1: 7.5W+wireless charger 2: 5W)

g: Charge mode_Keep the EUT charging(wireless charger 1: 10W+wireless charger 2: 5W)

7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

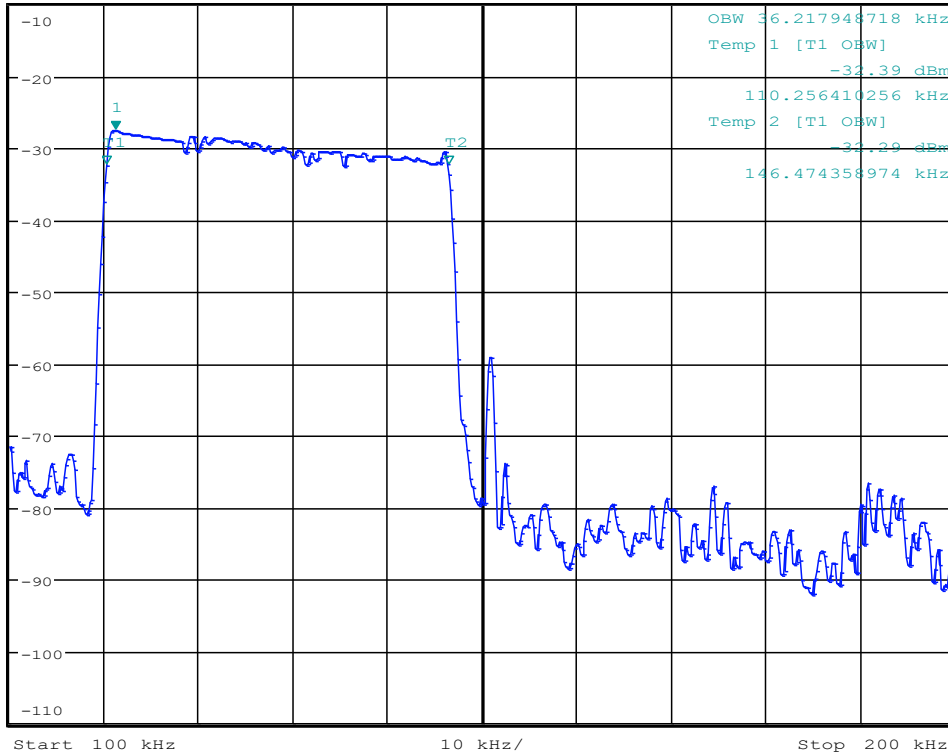


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Ref -10 dBm *Att 5 dB *RBW 1 kHz Marker 1 [T1]
 VBW 3 kHz -27.49 dBm
 SWT 100 ms 111.217948718 kHz

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7.4 Radiated Emissions (9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10 (2013) Section 6.4
 Measurement Distance: 3m
 Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

If field strength is measured at only a single point, then that point shall be at the radial from the EUT that produces the maximum emission at the frequency being measured, as described in 5.4. If that point is closer to the EUT than $\lambda/2\pi$ and the limit distance is greater than $\lambda/2\pi$, the measurement shall be extrapolated to the limit distance by conservatively presuming that the field strength decreases at a 40 dB/decade of distance rate to the $\lambda/2\pi$ distance, and at a 20 dB/decade of distance rate beyond $\lambda/2\pi$. This shall be accomplished using Equation (2):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(near\ field)}/d_{(10m)}\} + 20\log\{d_{(30/300m)}/d_{(near\ field)}\} \quad (2)$$

If the single point measured is at a distance greater than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (3):

$$FS_{(10m)} = FS_{(30/300m)} + 20\log\{d_{(30/300m)}/d_{(10m)}\} \quad (3)$$

If both the single point and the limit distance are equal to or closer to the EUT than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (4):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(30/300m)}/d_{(10m)}\} \quad (4)$$

Remark:

$$d_{near\ field} = 47.77 / f_{MHz}$$

where f_{MHz} is the frequency of the emission being measured in MHz.



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7.4.1 E.U.T. Operation

Operating Environment:

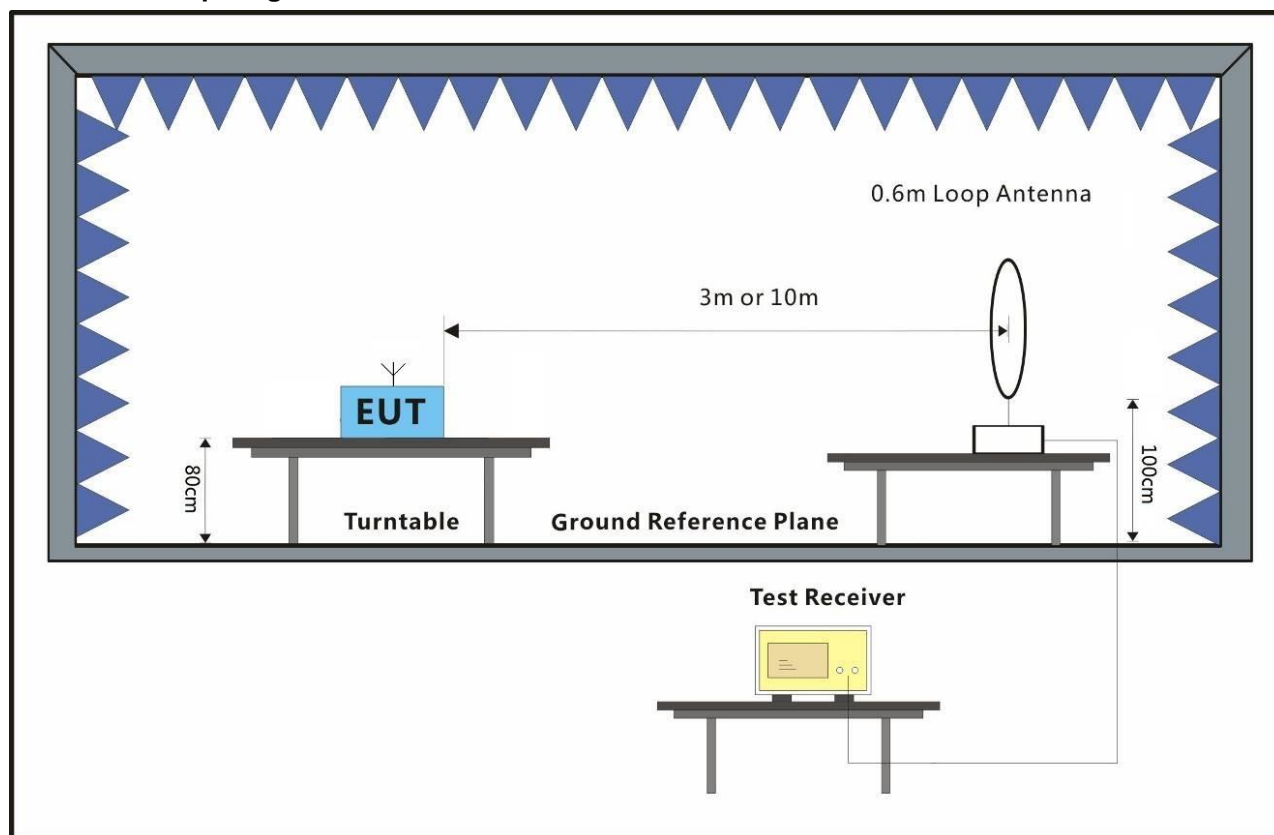
Temperature: 25 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:

- a: Charge mode_Keep the EUT charging(wireless charger 1: 5W)
- b: Charge mode_Keep the EUT charging(wireless charger 1: 7.5W)
- c: Charge mode_Keep the EUT charging(wireless charger 1: 10W)
- d: Charge mode_Keep the EUT charging(wireless charger 2: 5W)
- e: Charge mode_Keep the EUT charging(wireless charger 1: 5W+wireless charger 2: 5W)
- f: Charge mode_Keep the EUT charging(wireless charger 1: 7.5W+wireless charger 2: 5W)
- g: Charge mode_Keep the EUT charging(wireless charger 1: 10W+wireless charger 2: 5W)

The worst case for final test: g: Charge mode_Keep the EUT charging(wireless charger 1: 10W+wireless charger 2: 5W)

7.4.2 Test Setup Diagram

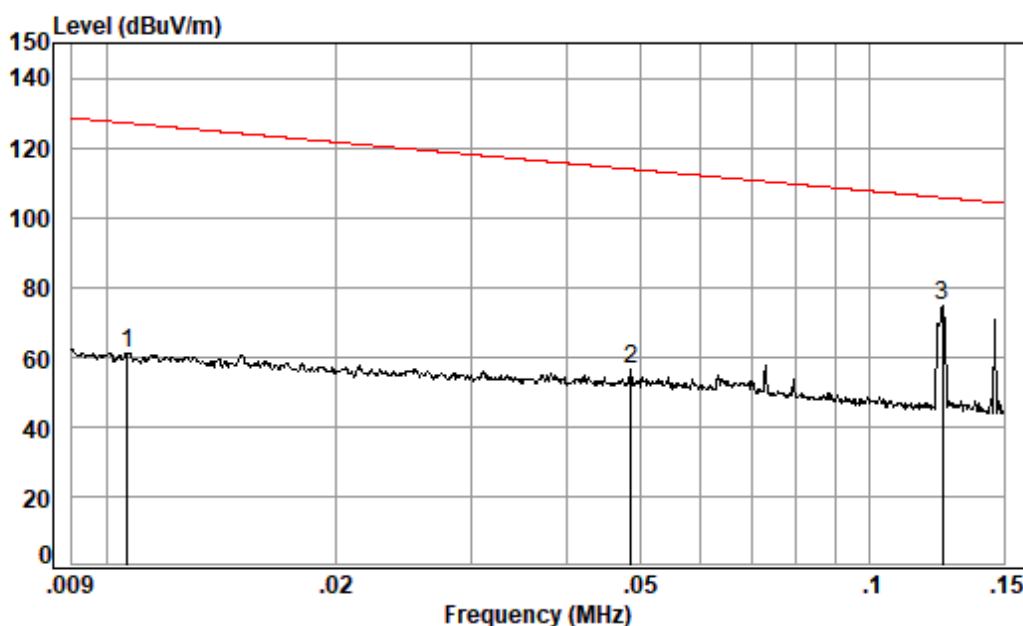


7.4.3 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.



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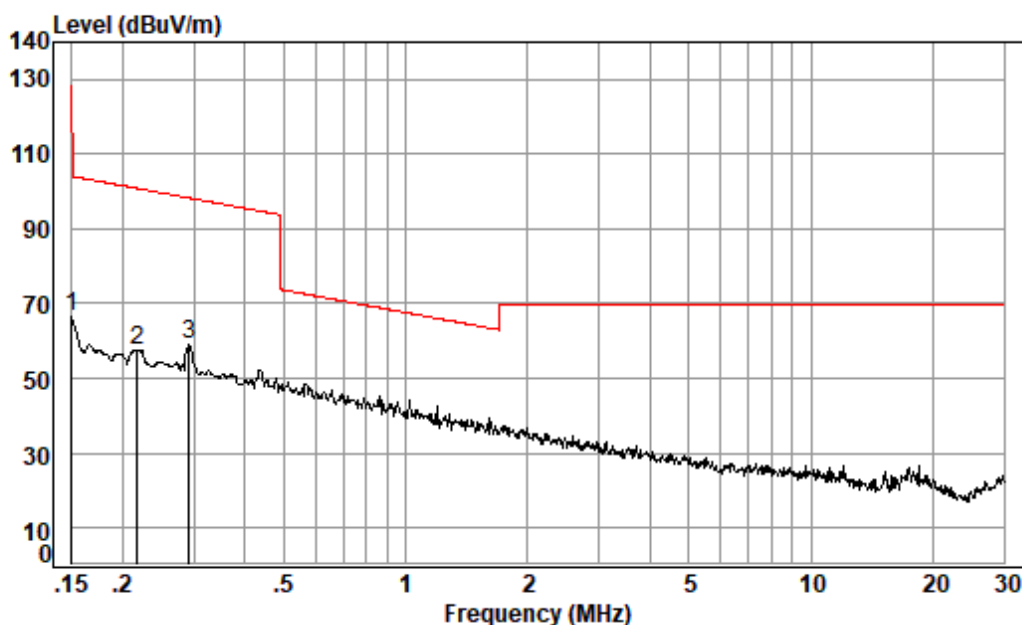


Condition: 3m
Job No. : 00531CR
Test Mode: g

| | Ant Freq | Preamp Factor | Cable Factor | Read Loss | Level | Limit | Over | Remark |
|------|----------|---------------|--------------|-----------|-------|--------|--------|----------------|
| | MHz | dB/m | dB | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 0.011 | 20.54 | 30.68 | 0.90 | 70.27 | 61.03 | 127.05 | -66.02 Average |
| 2 | 0.049 | 14.56 | 31.71 | 0.01 | 73.45 | 56.31 | 113.86 | -57.55 Average |
| 3 pp | 0.125 | 13.97 | 32.20 | 0.02 | 92.64 | 74.43 | 105.70 | -31.27 Average |



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Condition: 3m
Job No. : 00531CR
Test Mode: g

| | Ant Freq | Preamp Factor | Cable Loss | Read Level | Limit Level | Limit Line | Over Limit | Remark |
|------|----------|---------------|------------|------------|-------------|------------|------------|----------------|
| | MHz | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 0.150 | 13.94 | 32.20 | 0.02 | 84.71 | 66.47 | 104.08 | -37.61 Average |
| 2 | 0.217 | 13.88 | 32.22 | 0.03 | 75.90 | 57.59 | 100.86 | -43.27 Average |
| 3 | 0.292 | 13.81 | 32.23 | 0.04 | 77.39 | 59.01 | 98.28 | -39.27 Average |



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7.5 Radiated Emissions (30MHz-1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10 (2013) Section 6.5
 Measurement Distance: 10m
 Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



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7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:

- a: Charge mode_Keep the EUT charging(wireless charger 1: 5W)
- b: Charge mode_Keep the EUT charging(wireless charger 1: 7.5W)
- c: Charge mode_Keep the EUT charging(wireless charger 1: 10W)
- d: Charge mode_Keep the EUT charging(wireless charger 2: 5W)

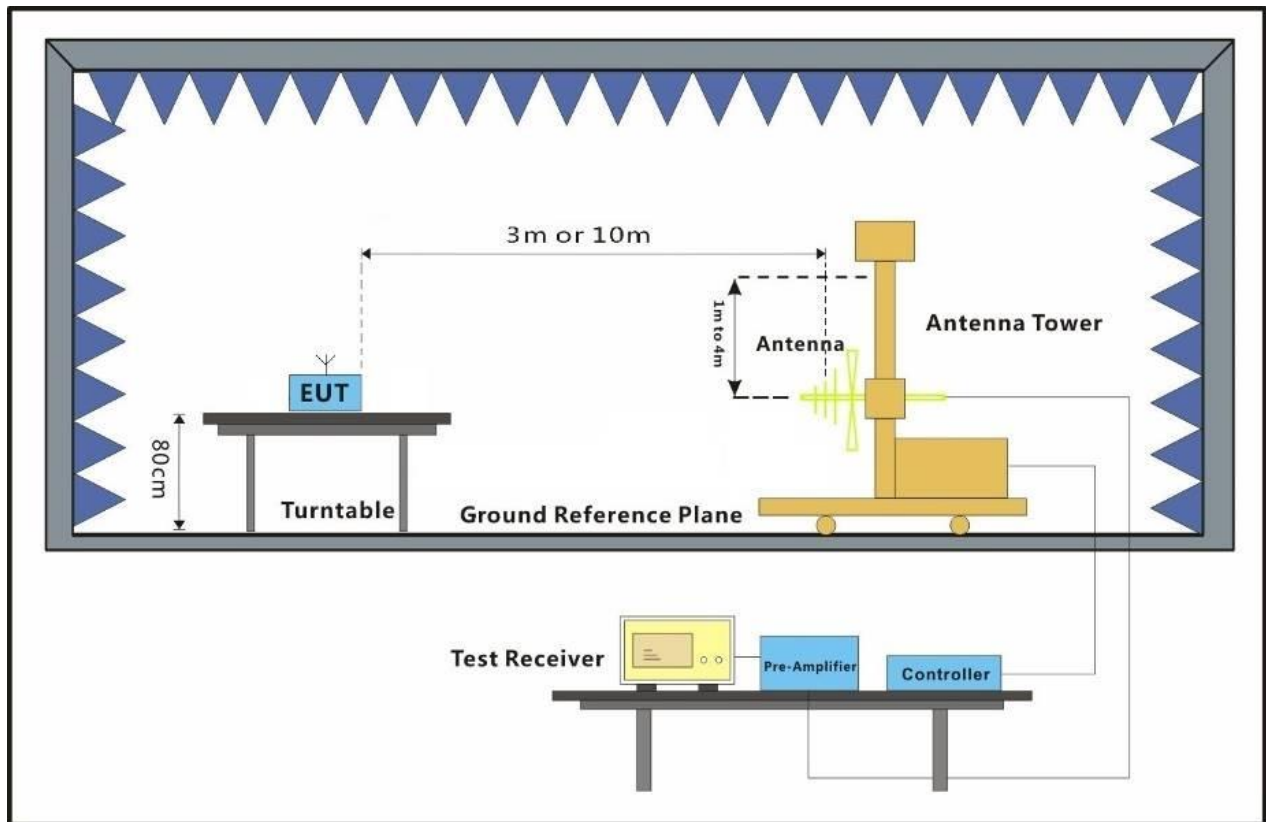
e: Charge mode_Keep the EUT charging(wireless charger 1: 5W+wireless charger 2: 5W)

f: Charge mode_Keep the EUT charging(wireless charger 1: 7.5W+wireless charger 2: 5W)

g: Charge mode_Keep the EUT charging(wireless charger 1: 10W+wireless charger 2: 5W)

The worst case for final test: g: Charge mode_Keep the EUT charging(wireless charger 1: 10W+wireless charger 2: 5W)

7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

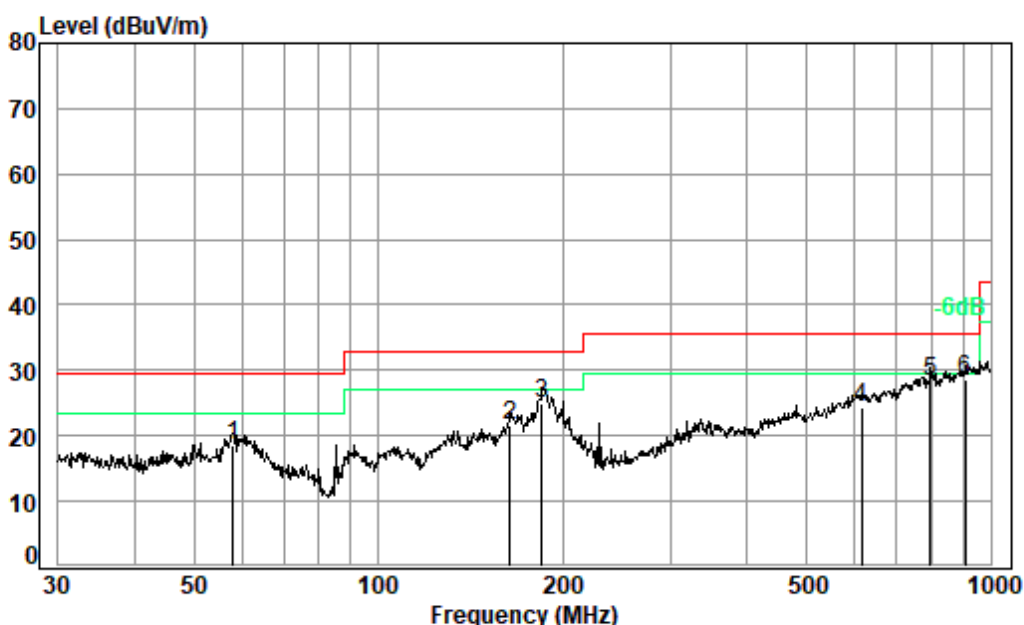
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Mode:g; Polarization:Horizontal



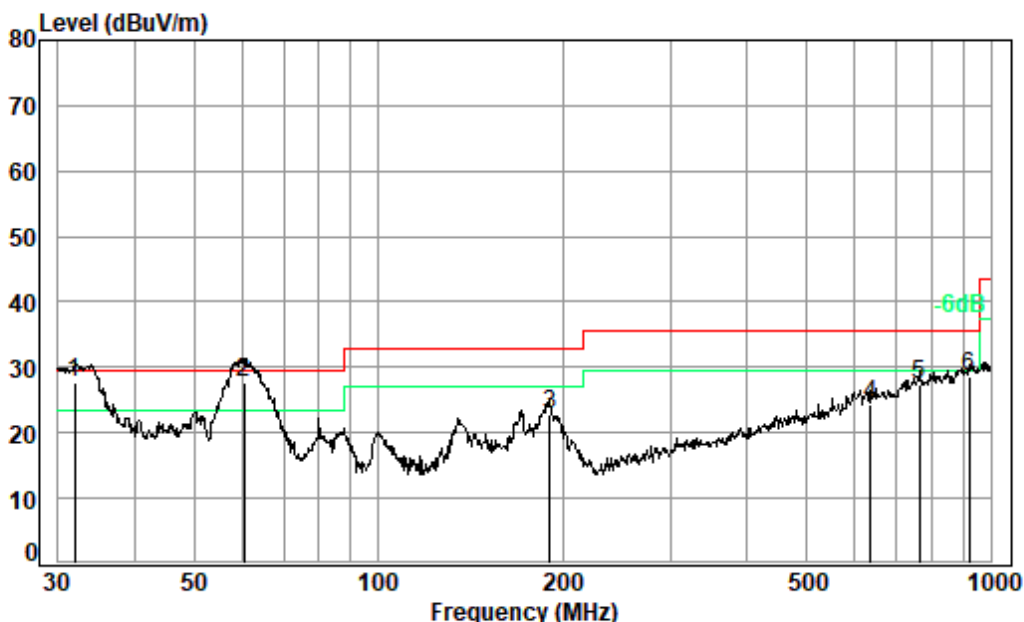
Condition: 10m HORIZONTAL
Job No. : 00531CR
Test Mode: g

| | Ant Freq | Preamp Factor | Cable Loss | Read Level | Limit Level | Limit Line | Over Limit | Remark |
|------|----------|---------------|------------|------------|-------------|------------|------------|-----------|
| | MHz | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 57.999 | 19.70 | 32.43 | 1.03 | 30.21 | 18.51 | 29.50 | -10.99 QP |
| 2 | 164.330 | 19.58 | 32.30 | 1.51 | 32.69 | 21.48 | 33.00 | -11.52 QP |
| 3 | 185.138 | 17.27 | 32.29 | 1.57 | 38.53 | 25.08 | 33.00 | -7.92 QP |
| 4 | 614.214 | 26.42 | 32.06 | 3.17 | 26.89 | 24.42 | 35.60 | -11.18 QP |
| 5 | 796.183 | 28.56 | 31.93 | 3.28 | 28.39 | 28.30 | 35.60 | -7.30 QP |
| 6 pp | 906.482 | 29.46 | 31.48 | 3.42 | 27.31 | 28.71 | 35.60 | -6.89 QP |



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Mode:g; Polarization:Vertical



Condition: 10m VERTICAL

Job No. : 00531CR

Test Mode: g

| | Ant Freq | Preamp Factor | Cable Loss | Read Level | Limit Level | Limit Line | Over Limit | Remark |
|------|----------|---------------|------------|------------|-------------|------------|------------|-----------|
| | MHz | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 31.955 | 18.70 | 32.39 | 0.87 | 40.49 | 27.67 | 29.50 | -1.83 QP |
| 2 pp | 60.280 | 19.10 | 32.42 | 1.04 | 40.00 | 27.72 | 29.50 | -1.78 QP |
| 3 | 190.405 | 16.59 | 32.29 | 1.58 | 37.05 | 22.93 | 33.00 | -10.07 QP |
| 4 | 636.134 | 26.26 | 32.11 | 3.19 | 27.03 | 24.37 | 35.60 | -11.23 QP |
| 5 | 763.376 | 28.32 | 32.04 | 3.27 | 27.81 | 27.36 | 35.60 | -8.24 QP |
| 6 | 922.516 | 29.80 | 31.40 | 3.45 | 26.62 | 28.47 | 35.60 | -7.13 QP |



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Radiated Emission below 1GHz

The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$$L_3 / L_{10} = D_{10} / D_3$$

Note:

L₃: Level @ 3m distance. Unit: uV/m;

L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

| Frequency (MHz) | Level @ 10m (dBuV/m) | Level @ 10m (uV/m) | Level @ 3m (uV/m) | Level @ 3m (dBuV/m) | Limit @ 3m (dBuV/m) | Margin (dB) | Ant. Polarization |
|-----------------|----------------------|--------------------|-------------------|---------------------|---------------------|-------------|-------------------|
| 31.96 | 27.67 | 24.18 | 80.61 | 38.13 | 40.00 | -1.87 | V |
| 60.28 | 27.72 | 24.32 | 81.07 | 38.18 | 40.00 | -1.82 | V |
| 190.41 | 22.93 | 14.01 | 46.71 | 33.39 | 43.50 | -10.11 | V |
| 636.13 | 24.37 | 16.54 | 55.13 | 34.83 | 46.00 | -11.17 | V |
| 763.38 | 27.36 | 23.33 | 77.78 | 37.82 | 46.00 | -8.18 | V |
| 922.52 | 28.47 | 26.52 | 88.39 | 38.93 | 46.00 | -7.07 | V |
| 58.00 | 18.51 | 8.42 | 28.08 | 28.97 | 40.00 | -11.03 | H |
| 164.33 | 21.48 | 11.86 | 39.53 | 31.94 | 43.50 | -11.56 | H |
| 185.14 | 25.08 | 17.95 | 59.82 | 35.54 | 43.50 | -7.96 | H |
| 614.21 | 24.42 | 16.63 | 55.45 | 34.88 | 46.00 | -11.12 | H |
| 796.18 | 28.30 | 26.00 | 86.67 | 38.76 | 46.00 | -7.24 | H |
| 906.48 | 28.71 | 27.26 | 90.86 | 39.17 | 46.00 | -6.83 | H |



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8 Photographs

8.1 Test Setup

Please refer to setup photos.

8.2 EUT Constructional Details (EUT Photos)

Please refer to external and internal photos for details.

- End of the Report -

