

| | | Microtest |
|---------------|--|---------------------|
| Microtest | Test Repo | rt @Microtest |
| Microtest | | |
| Report No. | : MTi250326001-0102E1 | |
| Date of issue | : 2025-04-02 | |
| Applicant | : Shenzhen Aodehong Electr Co.,Ltd. | onic Technology |
| Product | : Multi-function Wireless Cha | arger MiClo |
| Model(s) | : S9, S9A, S10, S10A, S11, S1 | 1A, S12, S12A, S13, |
| @ Mici s | S13A, S14, S14A, S15, S15A | A, S16, S16A, S17, |
| | S17A, S18, S18A, T3, T5, T6 | , Т7, Т8, Т9 |
| FCC ID | : 2APQD-S9 | |
| | | NCIOLEST |

Shenzhen Microtest Co., Ltd.





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| Applicant | Shenzhen Aodehong Electronic Technology Co.,Ltd. | | | |
|-------------------------|--|---|---|--|
| Applicant Address | | 5th Floor, Elegant Industrial Park, No.8 Liuhe Road, Liuyue,Her Street,Longgang District, Shenzhen,China | | |
| Manufacturer Shenzhe | | n Aodehong Electronic Technology | Co.,Ltd. | |
| Manufacturer Address | | Elegant Industrial Park, No.8 Liuh nggang District, Shenzhen,China | e Road, Liuyue,Henggang | |
| Product descriptio | n | | (B)MC. | |
| Product name | Multi-fund | ction Wireless Charger | | |
| Trademark | NEWQI | | | |
| Model name | S9 | dest | | |
| Series Model(s) | | , S10A, S11, S11A, S12, S12A, S ² A, S17, S17A, S18, S18A, T3, T5, | | |
| Standards | 47 CFR F | R Part 15C | | |
| Test Method | ANSI C63 | ANSI C63.10-2013 | | |
| Testing Informatio | n | | Micro | |
| Date of test | 2025-03-2 | 26 to 2025-03-28 | | |
| Test result | Pass | | | |
| Prepared b | by: | Maleah Deng | Marleen Davy | |
| Reviewed | by: | David Lee | Marlean Doug Dourid. Cee Lewis tion | |
| Approved I | oy: | Lewis Lian | Lewis tion | |



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1 General Description

1.1 Description of the EUT

| 200 | |
|----------------------------|--|
| Product name: | Multi-function Wireless Charger |
| Model name: | S9 |
| Series Model(s): | S9A, S10, S10A, S11, S11A, S12, S12A, S13, S13A, S14, S14A, S15, S15A, S16, S16A, S17, S17A, S18, S18A, T3, T5, T6, T7, T8, T9 |
| Model difference: | All the models are the same circuit and module, except the model name. |
| Electrical rating: | Input: DC 9V 3A Wireless Output: Phone:5W, 7.5W, 10W, 15W; Earbuds: 5W; Watch: 5W |
| Accessories: | Cable: USB-C to USB-C cable 100cm |
| Hardware version: | 1.0 |
| Software version: | 1.0 |
| Test sample(s) number: | MTi250219007-13-R002 |
| RF specification | MIC |
| Operating frequency range: | Coil 1 (Phone): 115-205KHz(5W, 7.5W, 10W), 360kHz(15W) Coil 2 (Earphone): 115-205KHz Coil 3 (Watch): 300-350KHz |
| Modulation type: | ASK |
| Antenna(s) type: | Coil Antenna |

1.2 Description of test modes

| No. | Emission test modes |
|--------|---|
| Mode1 | Wireless output(Phone(5W)+Earphone(5W)+Watch(5W)) |
| Mode2 | Wireless output(Phone(7.5W)+Earphone(5W)+Watch(5W)) |
| Mode3 | Wireless output(Phone(10W)+Earphone(5W)+Watch(5W)) |
| Mode4 | Wireless output(Phone(15W)+Earphone(5W)+Watch(5W)) |
| Mode5 | Wireless output(Phone(5W)+Earphone(5W)) |
| Mode6 | Wireless output(Phone(7.5W)+Earphone(5W)) |
| Mode7 | Wireless output(Phone(10W)+Earphone(5W)) |
| Mode8 | Wireless output(Phone(15W)+Earphone(5W)) |
| Mode9 | Wireless output(Phone(5W)+Watch(5W)) |
| Mode10 | Wireless output(Phone(7.5W)+Watch(5W)) |
| Mode11 | Wireless output(Phone(10W)+Watch(5W)) |
| Mode12 | Wireless output(Phone(15W)+Watch(5W)) |
| Mode13 | Wireless Output(Earphone(5W)+Watch(5W)) |



| Mode14 | Wireless output(Phone(5W)) |
|--------|-------------------------------|
| Mode15 | Wireless output(Phone(7.5W)) |
| Mode16 | Wireless output(Phone(10W)) |
| Mode17 | Wireless output(Phone(15W)) |
| Mode18 | Wireless output(Watch(5W)) |
| Mode19 | Wireless output(Earphone(5W)) |
| Mode20 | stand by |
| | |

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1.3 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

| Temperature: | 15°C ~ 35°C | |
|-----------------------|------------------|--|
| Humidity: | 20% RH ~ 75% RH | |
| Atmospheric pressure: | 98 kPa ~ 101 kPa | |

1.4 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Support equipment I | ist | | 40 ^{0%} | |
|-----------------------------|----------------------|---------------------|------------------|--|
| Description | Model | Serial No. | Manufacturer | |
| Apple Watch | Apple Watch SE | FH7PP6BAG91J6 Apple | | |
| wireless charging load | YBZ3.0(MPP15W) | | YBZ | |
| airpods | airpods 3 | × 1 | apple | |
| wireless charging load | YBZ1.1 | 010 1 | YBZ | |
| HUAWEI QUICK CHARGE(65W) | HW-200200ZP1 | JN67LSN7N03451 | HUAWEI | |
| Support cable list | | | | |
| Description | Length (m) | From | Тос | |
| / | / | / | NO9 | |
| .5 Measurement ur | ncertainty | | B))) | |
| Measurement | | Uncertainty | | |
| Conducted emissions | (AMN 150kHz~30MHz) | ±3.1dB | | |
| Occupied channel bar | ndwidth | ±3 % | | |
| Radiated spurious em | issions (9kHz~30MHz) | ±4.3dB | | |
| Radiated spurious em | issions (30MHz~1GHz) | ±4.7dB | | |
| Temperature | (((13)))" | ±1 °C | *e51 | |
| Humidity | | ± 5 % | | |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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2 Summary of Test Result

| No. | Item 🛒 | Standard | Requirement | Result |
|-----|---|-----------------|--------------------------|--------|
| 1 | Antenna requirement | 47 CFR Part 15C | 47 CFR Part 15.203 | Pass |
| 2 | Conducted Emission at AC power line | 47 CFR Part 15C | 47 CFR Part 15.207(a) | Pass |
| 3 | 20dB Occupied Bandwidth | 47 CFR Part 15C | 47 CFR Part 15.215(c) | Pass |
| 4 | Emissions in frequency bands (below 30MHz) | 47 CFR Part 15C | 47 CFR Part 15.209 | Pass |
| 5 | Emissions in frequency bands (30MHz - 1GHz) | 47 CFR Part 15C | 47 CFR Part 15.209 | Pass |

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3 Test Facilities and accreditations

3.1 Test laboratory

| Test laboratory: | Shenzhen Microtest Co., Ltd. |
|------------------------|--|
| Test laboratory: | · · · · · · · · · · · · · · · · · · · |
| Test site location: | 101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China |
| Telephone: | (86-755)88850135 |
| Fax: | (86-755)88850136 |
| CNAS Registration No.: | CNAS L5868 |
| FCC Registration No.: | 448573 |
| IC Registration No.: | 21760 |
| CABID: | CN0093 |
| Pure | Microtest |

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4 List of test equipment

| • | List of test equipri | | 1 | | | |
|-----|--|----------------------|-----------------|----------------|----------------|---------------|
| No. | Equipment | Manufacturer | Model | Serial No. | Cal. date | Cal. Due |
| 27 | COLC- | Conducted Emiss | ion at AC power | line | | |
| 4 | EMI Test Receiver | Rohde&schwarz | ESCI3 | 101368 | 2025-03- 13 | 2026-03 12 |
| 2 | Artificial mains network | Schwarzbeck | NSLK 8127 | 183 | 2025-03- 18 | 2026-03 17 |
| 3 | Artificial Mains Network | Rohde & Schwarz | ESH2-Z5 | 100263 | 2025-03- 18 | 2026-03 17 |
| | | 20dB Occup | ied Bandwidth | | 2.0 | -10 |
| 1 | Wideband Radio Communication Tester | Rohde&schwarz | CMW500 | 149155 | 2025-03- 18 | 2026-03 17 |
| 2 | ESG Series Analog Ssignal Generator | Agilent | E4421B | GB400512 40 | 2025-03- 14 | 2026-03 13 |
| 3 | PXA Signal Analyzer | Agilent | N9030A | MY513502 96 | 2025-03- 14 | 2026-03 13 |
| 4 | Synthesized Sweeper | Agilent | 83752A | 3610A019 57 | 2025-03- 18 | 2026-03 17 |
| 5 | MXA Signal Analyzer | Agilent | N9020A | MY501434 83 | 2025-03- 18 | 2026-03 17 |
| 6 | RF Control Unit | Tonscend | JS0806-1 | 19D80601 52 | 2025-03- 18 | 2026-03 17 |
| 7 | Band Reject Filter Group | Tonscend | JS0806-F | 19D80601 60 | 2025-03- 18 | 2026-03 17 |
| 8 | ESG Vector Signal Generator | Agilent | N5182A | MY501437 62 | 2025-03- 14 | 2026-03 13 |
| 9 | DC Power Supply | Agilent | E3632A | MY400276 95 | 2025-03- 18 | 2026-03 17 |
| | En En | nissions in frequenc | y bands (below | 30MHz) | Jan. | |
| 1 | EMI Test Receiver | Rohde&schwarz | ESCI7 | 101166 | 2025-03- 14 | 2026-03 13 |
| 2 | Active Loop Antenna | Schwarzbeck | FMZB 1519 B | 00066 | 2024-03- 23 | 2026-03 22 |
| 3 | Amplifier | Hewlett-Packard | 8447F | 3113A0618 4 | 2025-03- 18 | 2026-03 17 |
| | Em | issions in frequency | y bands (30MHz | - 1GHz) | | |
| 1 | EMI Test Receiver | Rohde&schwarz | ESCI7 | 101166 | 2025-03- 14 | 2026-03 13 |
| 2 | TRILOG Broadband Antenna | schwarabeck | VULB 9163 | 9163-1338 | 2023-06-11 | 2025-06 10 |
| 3 | Active Loop Antenna | Schwarzbeck | FMZB 1519 B | 00066 | 2024-03- 23 | 2026-03 22 |
| 4 | Amplifier | Hewlett-Packard | 8447F | 3113A0618 4 | 2025-03- 18 | 2026-03 17 |

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5 Evaluation Results (Evaluation)

5.1 Antenna requirement

| Test Requirement: Refer to 47 CFR Part 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 shall be considered sufficient to comply with the provisions of this section. |
|---|
|---|

5.1.1 Conclusion:

The antenna of the EUT is permanently attached. The EUT complies with the requirement of FCC PART 15.203.

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6 Radio Spectrum Matter Test Results (RF)

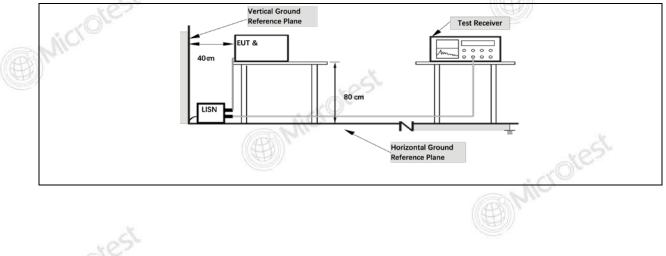
6.1 Conducted Emission at AC power line

| Test Requirement: | intentional radiator that is design (AC) power line, the radio freque onto the AC power line on any fr band 150 kHz to 30 MHz, shall r | t as shown in paragraphs (b)and (c)of this section, for an onal radiator that is designed to be connected to the public utility ower line, the radio frequency voltage that is conducted back the AC power line on any frequency or frequencies, within the 50 kHz to 30 MHz, shall not exceed the limits in the following as measured using a 50 μ H/50 ohms line impedance ration network (LISN). | | | | |
|-------------------|---|---|-----------|--|--|--|
| Test 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 | | | |
| j. | *Decreases with the logarithm of the frequency. | | | | | |
| Test Method: | ANSI C63.10-2013 section 6.2 | | | | | |
| Procedure: | Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices | | | | | |

6.1.1 E.U.T. Operation:

| Operating Environment: | | | | | |
|--|---------|-----------|------|-----------------------|---------|
| Temperature: 2 | 24.4 °C | Humidity: | 61 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode: Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16, Mode17, Mode18, Mode19, Mode20 | | | | | , , |
| Final test mode: All of the listed pre-test mode were tested, only the data of the worst mode (Mode2) is recorded in the report | | | | | |

6.1.2 Test Setup Diagram:

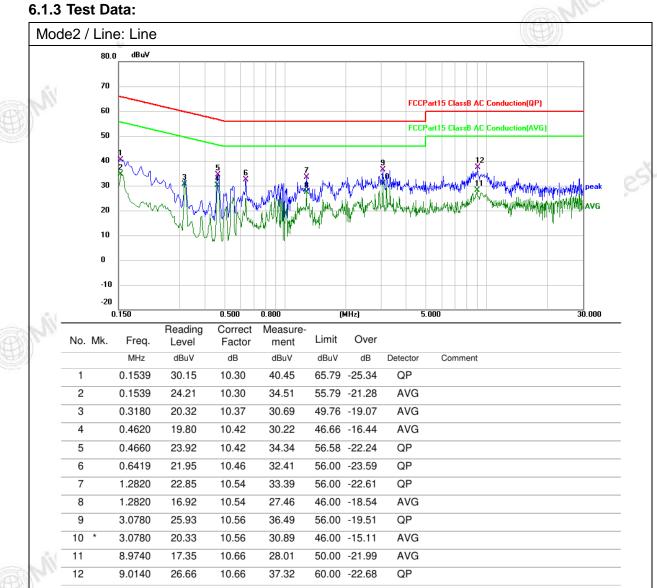


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TEST REPORT

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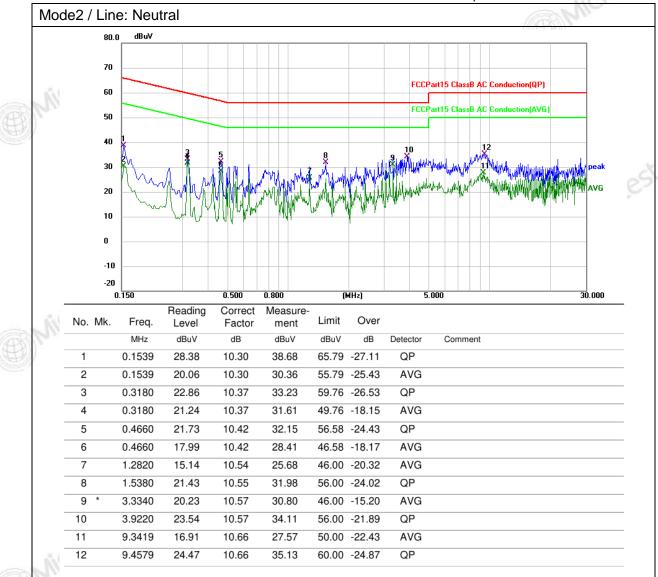
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6.2 20dB Occupied Bandwidth

| Test Requirement: | 47 CFR Part 15.215(c) | |
|-------------------|--|--|
| Test Limit: | Refer to 47 CFR 15.215(c), intentional alternative provisions to the general e 15.217 through 15.257 and in subpart to ensure that the 20 dB bandwidth of bandwidth may otherwise be specified under which the equipment operates, band designated in the rule section u operated. | emission limits, as contained in § t E of this part, must be designed f the emission, or whatever d in the specific rule section , is contained within the frequency |
| Test Method: | ANSI C63.10-2013, section 6.9.2 | |
| Procedure: | a) The spectrum analyzer center freq channel center frequency. The span r spectrum analyzer shall be between t OBW. b) The nominal IF filter bandwidth (3 of the OBW) and video here. | range for the EMI receiver or two times and five times the dB RBW) shall be in the range of |
| Microtest | 1% to 5% of the OBW and video band approximately three times RBW, unleapplicable requirement. c) Set the reference level of the instrusignal from exceeding the maximum is operation. In general, the peak of the than [10 log (OBW/RBW)] below the rest is given in 4.1.5.2. | ess otherwise specified by the ument as required, keeping the input mixer level for linear spectral envelope shall be more |
| Microtest | d) Steps a) through c) might require it specified tolerances. e) The dynamic range of the instrume more than 10 dB below the target "-x if the requirement calls for measuring noise floor at the selected RBW shall reference value. f) Set detection mode to peak and trag) Determine the reference value: Se unmodulated carrier or modulated signature to stabilize. Set the spectrum ar level of the displayed trace (this is the h) Determine the "-xx dB down amplition" and the instrument. | ent at the selected RBW shall be ex dB down" requirement; that is, the -20 dB OBW, the instrument be at least 30 dB below the acce mode to max hold. At the EUT to transmit an gnal, as applicable. Allow the halyzer marker to the highest e reference value). At the instruction of the marker of t |
| Microtest | i) If the reference value is determined turn the EUT modulation ON, and eith a new trace on the spectrum analyze stabilize. Otherwise, the trace from st j) Place two markers, one at the lowe highest frequency of the envelope of each marker is at or slightly below the determined in step h). If a marker is b amplitude" value, then it shall be as of The occupied bandwidth is the freque markers. Alternatively, set a marker a envelope of the spectral display, such below the "-xx dB down amplitude" determined | her clear the existing trace or star r and allow the new trace to tep g) shall be used for step j). It frequency and the other at the the spectral display, such that e "-xx dB down amplitude" below this "-xx dB down close as possible to this value. Ency difference between the two it the lowest frequency of the n that the marker is at or slightly |



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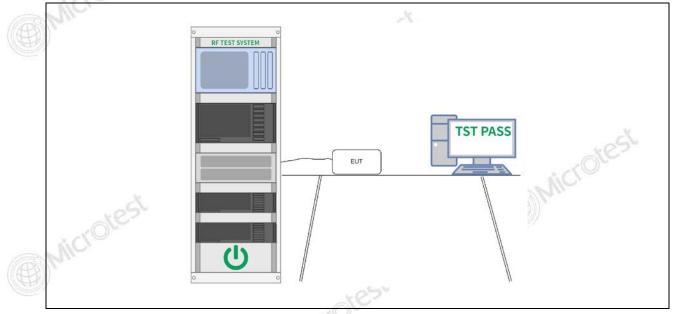
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marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth. k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

6.2.1 E.U.T. Operation:

| Operating Environment: | | | | | | |
|---|--------|---|-----------|------|-----------------------|---------|
| Temperature: | 24.1 ° | Ő | Humidity: | 40 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode: Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16, Mode17, Mode18, Mode19, Mode20 | | | | | | |
| Final test mode:All of the listed pre-test mode were tested, only the data of the worst mode (Mode16, Mode17, Mode18, Mode19) is recorded in the report | | | | | | |

6.2.2 Test Setup Diagram:



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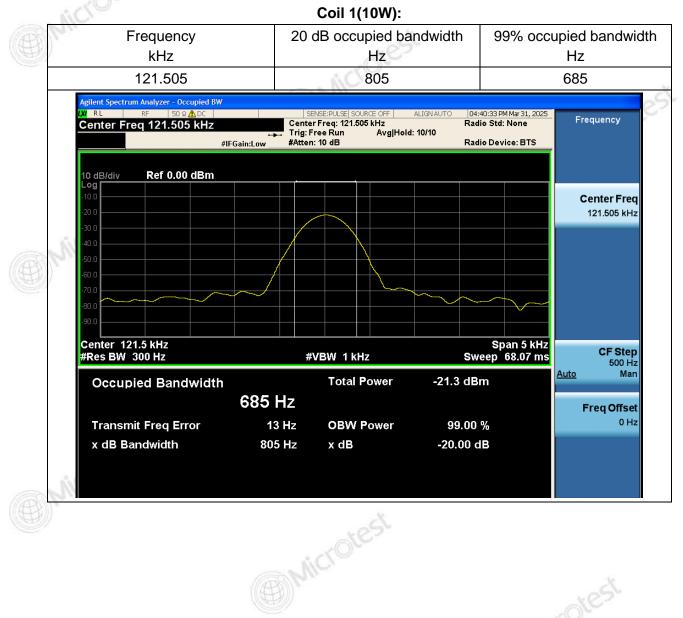




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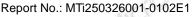
6.2.3 Test Data:

Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.



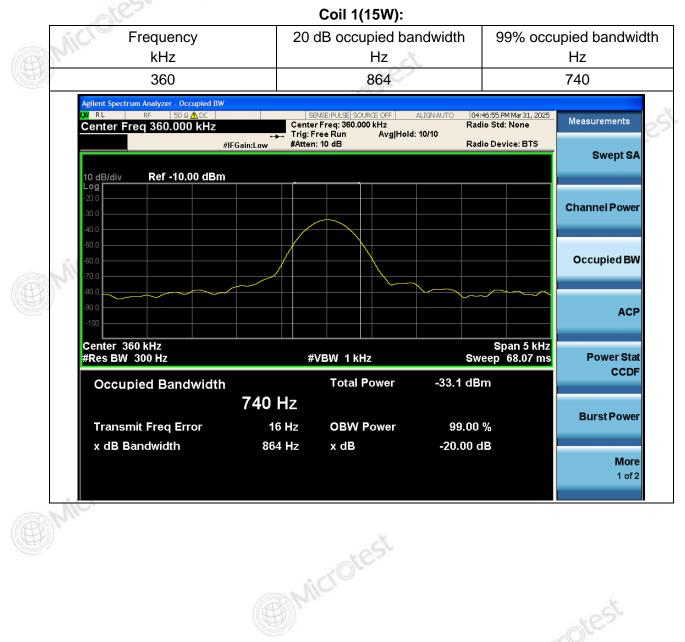
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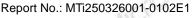
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Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.



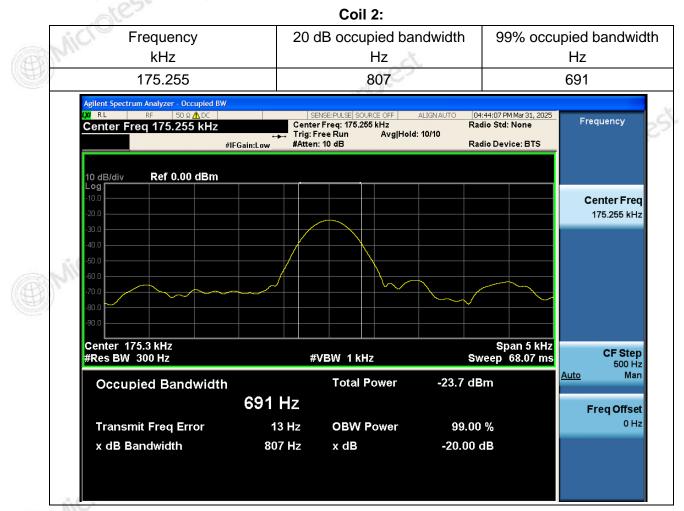
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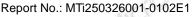
Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.



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Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.



(B) Microlest

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6.3 Emissions in frequency bands (below 30MHz)

| Test Requirement: | 47 CFR Part 15.209 | | | |
|-------------------|---|---|--|--|
| Test Limit: | Frequency (MHz) | Field strength (microvolts/meter) | Measurement t distance (meters) | |
| | 0.009-0.490 | 2400/F(kHz) | 300 | |
| | 0.490-1.705 | 24000/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 | |
| Microtest | The emission limits sho measurements employ frequency bands 9–90 Radiated emission limit measurements employ As shown in § 15.35(b) strength limits in parage average limits. Howeve not exceed the maximum more than 20 dB under operation under paragr shall not exceed 2500 m azimuth. | bove, the tighter limit applies own in the above table are ba- ing a CISPR quasi-peak detector. kHz, 110–490 kHz and above ing an average detector. , for frequencies above 1000 raphs (a)and (b)of this section er, the peak field strength of a um permitted average limits se any condition of modulation aph (b)of this section, the per- millivolts/meter at 3 meters a | ased on ector except for the e 1000 MHz. ased on 0 MHz, the field on are based on any emission shall specified above by . For point-to-point eak field strength | |
| | | | | |
| Test Method: | ANSI C63.10-2013 sec | tion 6.4 | | |

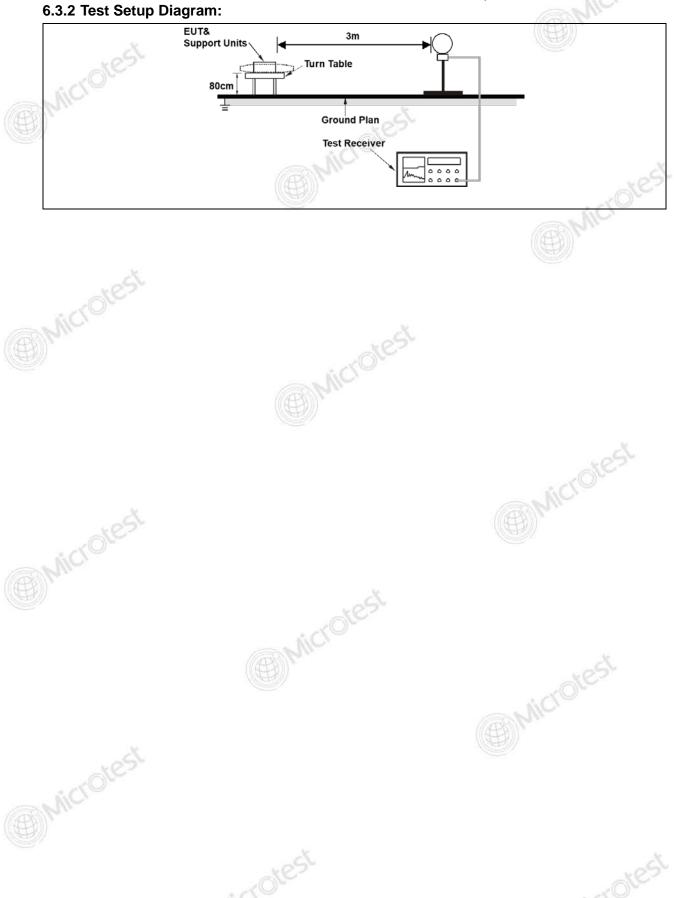
Operating Environment:

| Operating Envir | | | 20)* | 1 | |
|-----------------|---------|---|-------------|--|---------------------------------------|
| Temperature: | 22.5 °C | Humidity: | 43 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode: | Mo | de9, Mode10 | , Mode11, N | de4, Mode5, Mode6, Mode Iode12, Mode13, Mode14, Mode19, Mode20 | · · · · · · · · · · · · · · · · · · · |
| Final test mode | · · | All of the listed pre-test mode were tested, only the data of the wors mode (Mode3, Mode4) is recorded in the report | | | a of the worst |
| Microtest | | | | | |
| | | | | | |

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Microtest

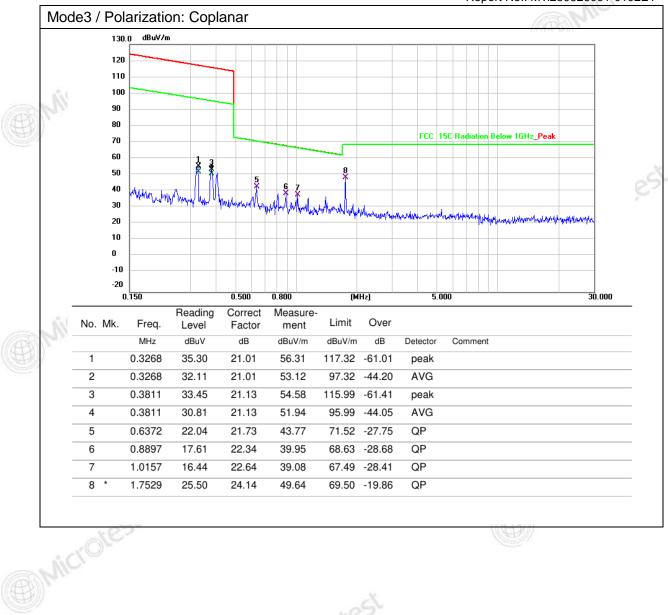
6.3.3 Test Data:





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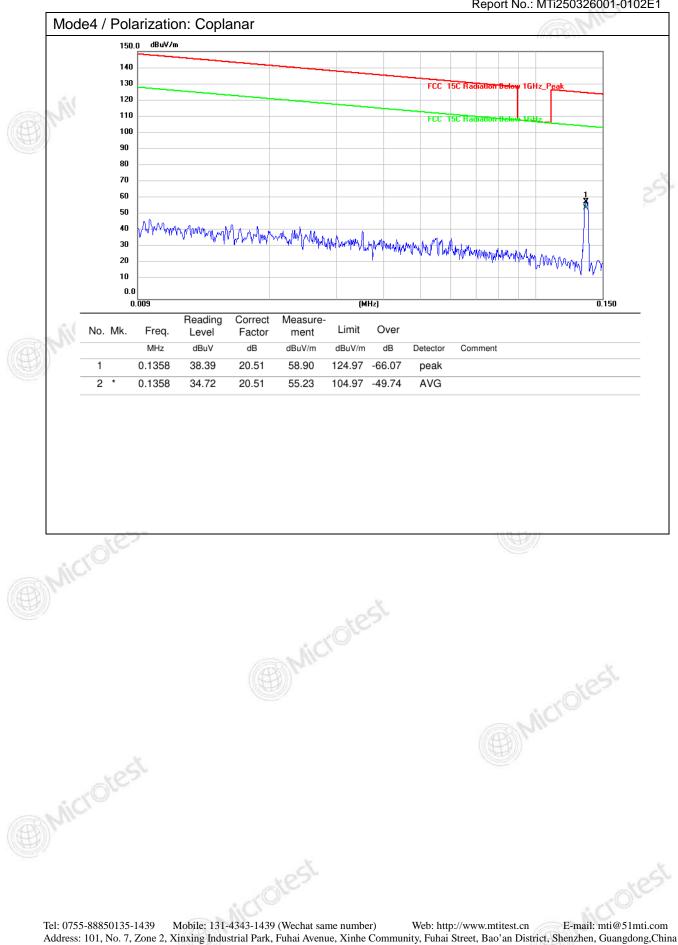
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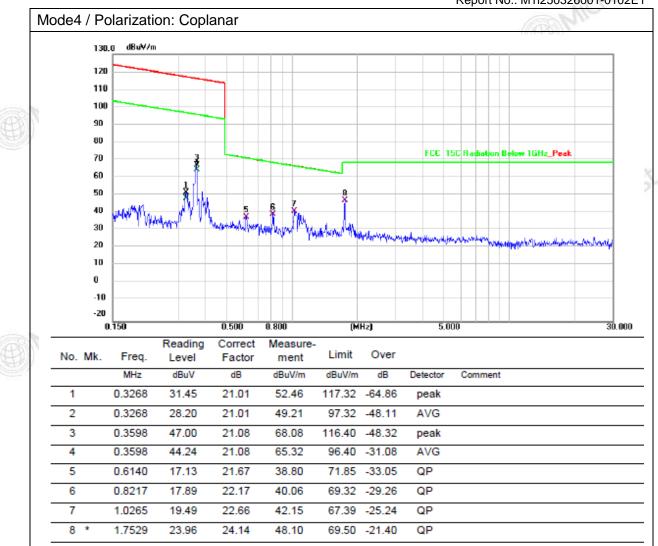
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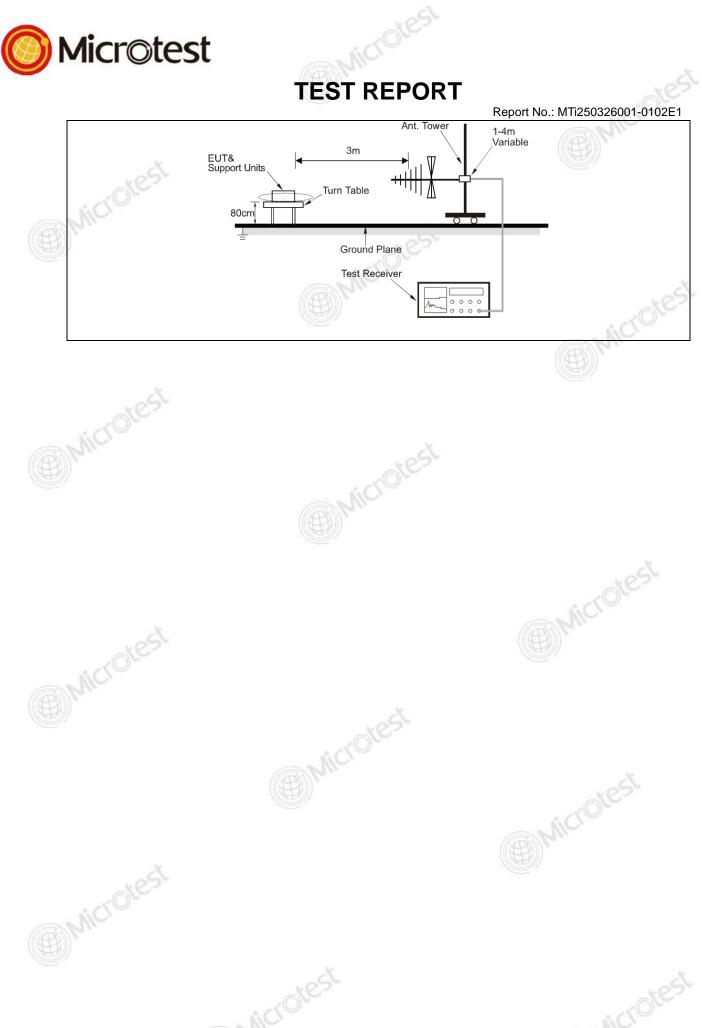
6.4 Emissions in frequency bands (30MHz - 1GHz)

| Test Requirement: | 47 CFR Part 15.209 | | | |
|-------------------|--|---|--|--|
| Test Limit: | Frequency (MHz) | Field strength (microvolts/meter) | Measuremer t distance (meters) | |
| | 0.009-0.490 | 2400/F(kHz) | 300 | |
| | 0.490-1.705 | 24000/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 | |
| Microtest | measurements employ frequency bands 9–90 | own in the above table are baing a CISPR quasi-peak detecting a CISPR quasi-peak detector. | ector except for the e 1000 MHz. | |
| dest | As shown in § 15.35(b) strength limits in parag average limits. However not exceed the maximu more than 20 dB under operation under paragr shall not exceed 2500 r azimuth. | , for frequencies above 1000 raphs (a)and (b)of this section er, the peak field strength of a im permitted average limits section rany condition of modulation aph (b)of this section, the permillivolts/meter at 3 meters a | n are based on any emission shall specified above by . For point-to-point eak field strength | |
| Test Method: | As shown in § 15.35(b) strength limits in parag average limits. However not exceed the maximum more than 20 dB under operation under parage shall not exceed 2500 f | , for frequencies above 1000 raphs (a)and (b)of this section er, the peak field strength of a im permitted average limits section rany condition of modulation aph (b)of this section, the permillivolts/meter at 3 meters a | n are based on any emission shall specified above by . For point-to-point eak field strength | |

Operating Environment:

| Operating Envi | nonment. | | 2 (C)) ¹ | | |
|---|----------|---|---------------------|-----------------------|---------|
| Temperature: | 22.5 °C | Humidity: | 43 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode: | Μ | Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16, Mode17, Mode18, Mode19, Mode20 | | | |
| Final test mode: All of the listed pre-test mode were tested, only the data of the worst mode (Mode4) is recorded in the report | | | | a of the worst | |
| 6 / 2 Test Setup Diagram: | | | | | |

6.4.2 Test Setup Diagram:



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6.4.3 Test Data: Mode4 / Polarization: Horizontal dBuV/m 80.0 70 60 FCC ClassB 3M Radiated QP Margin -6 dB 50 5 40 30 2 X 20 10 0.0 30.000 (MHz) 300.000 60.000 90.000 600.000 1000.0 Reading Correct Measure-No. Mk. Limit Over Freq. Level Factor ment MHz dBuV dB dBuV/m dBuV/m dB Detector Comment 1 43.5057 32.22 -6.88 25.34 40.00 -14.66 QP 2 -10.19 66.7325 36.86 26.67 40.00 -13.33 QP 157.0074 48.22 -9.41 38.81 QP 3 1 43.50 -4.69 4 246.8149 37.65 -6.28 31.37 46.00 -14.63 QP 5 377.2591 45.22 -3.49 46.00 -4.27 QP * 41.73 6 497.6765 32.15 -1.74 30.41 46.00 -15.59 QP

Microtest

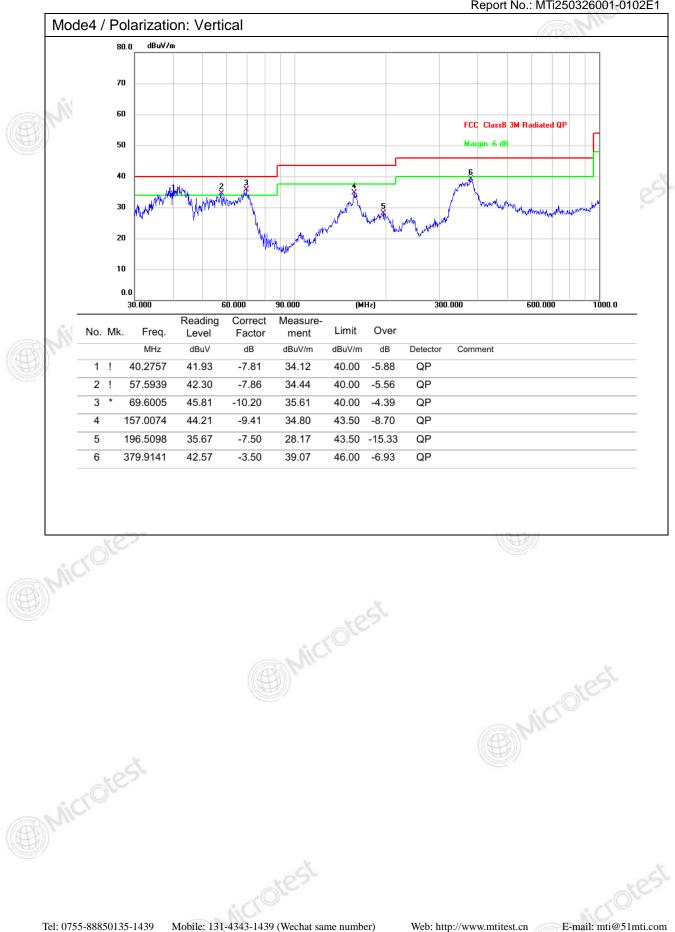
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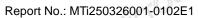
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Photographs of the test setup

Refer to Appendix - Test Setup Photos









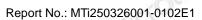




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Photographs of the EUT

Refer to Appendix - EUT Photos













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- 2. The test results of this report are only responsible for the samples submitted. Client shall be responsible for representativeness of the sample and authenticity of the material.
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