

FCC Test Report

| Applicant | : | Shenzhen Haitao Technology Co.,Ltd. | |
|--------------|---|---|--|
| Address | : | 2F, Building 2, West Industrial Park, Hezhou District, Hangcheng Street, Bao'an District, Shenzhen, China | |
| Product Name | : | 4-IN-1 WIRELESS CHARGER | |
| Report Date | : | Dec. 12, 2024 | |



Shenzhen Anbotek Compliance Laboratory Limited

Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China Tel:(86)0755-26066440 Email: service@anbotek.com







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Code:AB-RF-05-b



Hotline 400-003-0500 www.anbotek.com



TEST REPORT

| Test Standard(s) Test Method(s) | : | FCC Part15 Subpart C ANSI C63.10: 2020 | |
|------------------------------------|---|---|--|
| Rating(s) | : | Input: 5V-3A, 9V-3A Wireless Charging for Phone: 15W/10W/7.5W/5W Wireless Charging for Earbuds: 5W Wireless Charging for Watch: 2.5W | |
| Trade Mark | : | N/A | |
| Model No. | : | HT-539 | |
| Product Name | : | 4-IN-1 WIRELESS CHARGER | |
| Manufacturer | : | Shenzhen Haitao Technology co.,Ltd. | |
| Applicant | : | Shenzhen Haitao Technology Co.,Ltd. | |

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment

Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

Aug. 05, 2024

Date of Test

Prepared By

Aug. 05, 2024 to Dec. 11, 2024

Haidi Huang

(HaiDi Huang)

(KingKong Jin)

Approved & Authorized Signer

Shenzhen Anbotek Compliance Laboratory Limited

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Revision History

| Report Version | Description | Issued Date |
|----------------|-----------------|---------------|
| R00 | Original Issue. | Dec. 12, 2024 |
| | | |
| | | |

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1. General Information

1.1. Client Information

| Applicant | : | Shenzhen Haitao Technology Co.,Ltd. | |
|--------------|---|--|--|
| Address | 2F, Building 2, West Industrial Park, Hezhou District, Hangcheng Stre Bao'an District, Shenzhen, China | | |
| Manufacturer | : | Shenzhen Haitao Technology co.,Ltd | |
| Address | : | 2F, Building 2, West Industrial Park, Hezhou District, Hangcheng Street, Bao'an District, Shenzhen, China | |
| Factory | : | Shenzhen Haitao Technology co.,Ltd | |
| Address | : | 2F, Building 2, West Industrial Park, Hezhou District, Hangcheng Street, Bao'an District, Shenzhen, China | |

1.2. Description of Device (EUT)

| Product Name | : | 4-IN-1 WIRELESS CHARGER | | |
|--|--|---|--|--|
| Model No. | : | HT-539 | | |
| Trade Mark | • | N/A | | |
| Test Power Supply | • | DC 9V from adapter input AC 120V/60Hz | | |
| Test Sample No. | : | 1-2-1(Normal Sample), 1-2-2(Engineering Sample) | | |
| Adapter | • | I/A | | |
| RF Specification | | | | |
| | | Earbuds: 115-205kHz | | |
| Operation Frequency | peration Frequency : Phone: 115-205kHz | | | |
| Watch: 115-205kHz | | | | |
| Modulation Type | : | ASK | | |
| Antenna Type | : | Inductive loop coil Antenna | | |
| Remark: 1) All of the RF specification are provided by customer. 2) For a more detailed features | | | | |
| description, please refer to the manufacturer's specifications or the User's Manual. | | | | |

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1.3. Auxiliary Equipment Used During Test

| Title | Manufacturer | Model No. | Serial No. |
|--------------------|--------------|-------------|-----------------|
| Xiaomi 33W adapter | Xiaomi | MDY-11-EX | SA62212LA04358J |
| Apple Watch | Apple | iwatch s6 | / |
| Apple AirPods | Apple | AirPods Pro | / |
| Apple Phone | Apple | iPhone 12 | DNPDJC7T0DYF |

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1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Modes &Folding Mode | Descriptions | |
|--------------------------------|---|--|
| TM1 | Adapter+WPT Mode (Phone+Watch+Earbuds) (Battery Status: <1%) | |
| TM2 | Adapter+WPT Mode (Phone+Watch+Earbuds) (Battery Status: 50%) | |
| TM3 | Adapter+WPT Mode (Phone+Watch+Earbuds) (Battery Status: >98%) | |
| TM4 | Adapter+WPT Mode (Phone) (Battery Status: <1%) | |
| TM5 | Adapter+WPT Mode (Phone) (Battery Status: 50%) | |
| TM6 | Adapter+WPT Mode (Phone) (Battery Status: >98%) | |
| TM7 | Adapter+WPT Mode (Watch) (Battery Status: <1%) | |
| TM8 | Adapter+WPT Mode (Watch) (Battery Status: 50%) | |
| TM9 | Adapter+WPT Mode (Watch) (Battery Status: >98%) | |
| TM10 | Adapter+WPT Mode (Earbuds) (Battery Status: <1%) | |
| TM11 | Adapter+WPT Mode (Earbuds) (Battery Status: 50%) | |
| TM12 | Adapter+WPT Mode (Earbuds) (Battery Status: >98%) | |
| TM13 | Standby Mode | |

Note: Battery Status: <1%, Battery Status: 50%, and Battery Status: >98% load cases(Phone, Watch and Earbuds) were pre-tested for all modes, but we only recorded the worst case.

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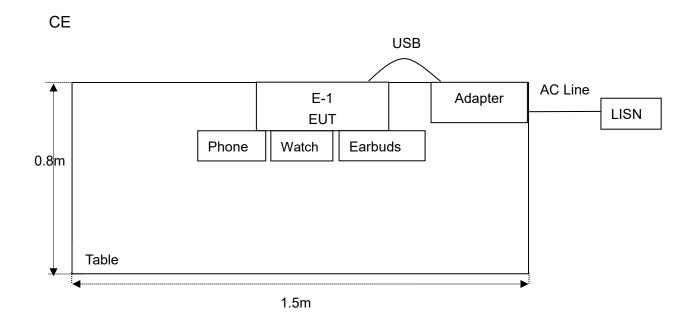
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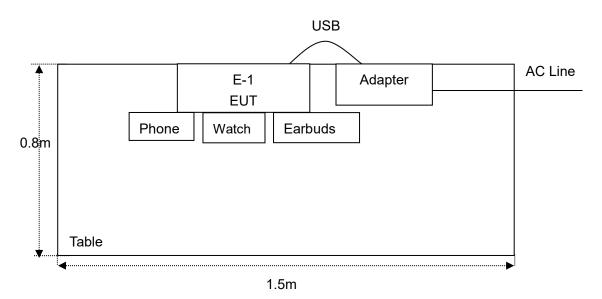




1.5. Description Of Test Setup



RE



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1.6. Test Equipment List

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|---|-----------------|-------------------|------------------|----------------|---------------|
| 1. | L.I.S.N. Artificial Mains Network | Rohde & Schwarz | ENV216 | 100055 | Jan. 18, 2024 | 1 Year |
| 2. | Three Phase V-type Artificial Power Network | CYBERTEK | EM5040DT | E215040DT00 1 | Jan. 17, 2024 | 1 Year |
| 3. | EMI Test Receiver | Rohde & Schwarz | ESCI | 100627 | Jan. 17, 2024 | 1 Year |
| 4. | EMI Test Receiver | Rohde & Schwarz | ESR26 | 101481 | Jan. 23, 2024 | 1 Year |
| 5. | MXA Spectrum Analysis | Agilent | N9020A | MY51170037 | Sept. 09, 2024 | 1 Year |
| 6. | EMI Preamplifier | SKET Electronic | LNPA-0118G- 45 | SKET-PA-002 | Jan. 17, 2024 | 1 Year |
| 7. | Double Ridged Horn Antenna | SCHWARZBECK | BBHA 9120D | 02555 | Oct. 16, 2022 | 3 Year |
| 8. | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | 345 | Oct. 23, 2022 | 3 Year |
| 9. | Loop Antenna | Schwarzbeck | FMZB1519B | 00053 | Sept. 12, 2024 | 1 Year |
| 10. | Horn Antenna | A-INFO | LB-180400-KF | J211060628 | Jan. 22, 2024 | 3 Year |
| 11. | Pre-amplifier | SONOMA | 310N | 186860 | Jan. 17, 2024 | 1 Year |
| 12. | EMI Test Software EZ-EMC | SHURPLE | N/A | N/A | N/A | N/A |
| 13. | MXA Spectrum Analysis | KEYSIGHT | N9020A | MY53280032 | Sept. 09, 2024 | 1 Year |
| 14. | MXG RF Vector Signal Generator | Agilent | N5182A | MY48180656 | Feb. 04, 2024 | 1 Year |
| 15. | Signal Generator | Agilent | E4421B | MY41000743 | Oct. 10, 2024 | 1 Year |
| 16. | DC Power Supply | IVYTECH | IV3605 | 1804D360510 | Sept. 09, 2024 | 1 Year |
| 17. | Constant Temperature Humidity Chamber | ZHONGJIAN | ZJ-KHWS80B | N/A | Oct. 14, 2024 | 1 Year |
| 18. | Spectrum Analyzer | Rohde & Schwarz | FSV40-N | 102150 | May. 06, 2024 | 1 Year |

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1.7. Measurement Uncertainty

| Parameter | Uncertainty |
|---|--------------------------------------|
| Conducted emissions (AMN 150kHz~30MHz) | 3.8dB |
| Occupied Bandwidth | 925Hz |
| Radiated spurious emissions (Below 30MHz) | 3.53dB |
| Radiated spurious emissions (30MHz~1GHz) | Horizontal: 3.92dB; Vertical: 4.52dB |

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032.

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

1.8. Description of Test Facility

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

FCC-Registration No.: 434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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2. Summary of Test Results

| Standard Section | Test Item | Result |
|------------------|-------------------------|--------|
| 15.203 | Antenna Requirement | PASS |
| 15.207 | Conducted Emission Test | PASS |
| 15.205/15.209 | Spurious Emission | PASS |
| 15.215(c) | 20dB Occupy Bandwidth | PASS |

Note: N/A" denotes test is not applicable in this Test Report

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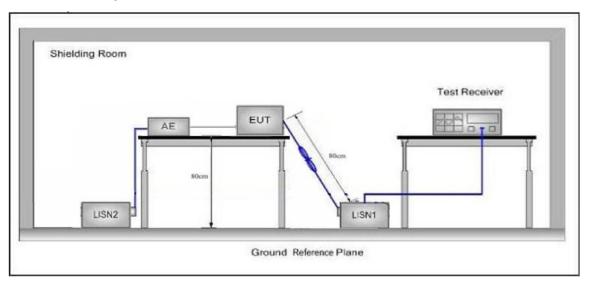


3. Conducted Emission Test

3.1. Test Standard and Limit

| Test Standard | FCC Part15 Section 15.207 | | | |
|---|---------------------------|--------------------------------|---------------|--|
| | Frequency | Maximum RF Line Voltage (dBuV) | | |
| Test Limit | | Quasi-peak Level | Average Level | |
| | 150kHz~500kHz | 66 ~ 56 * | 56 ~ 46 * | |
| | 500kHz~5MHz | 56 | 46 | |
| | 5MHz~30MHz | 60 | 50 | |
| Remark: (1) *Decreasing linearly with logarithm of the frequency. | | | | |
| (2) The lower limit shall apply at the transition frequency. | | | | |

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10: 2020 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

PASS

During the test, pre-scan all modes, only the worst case is recorded in the report. Please to see the following pages.

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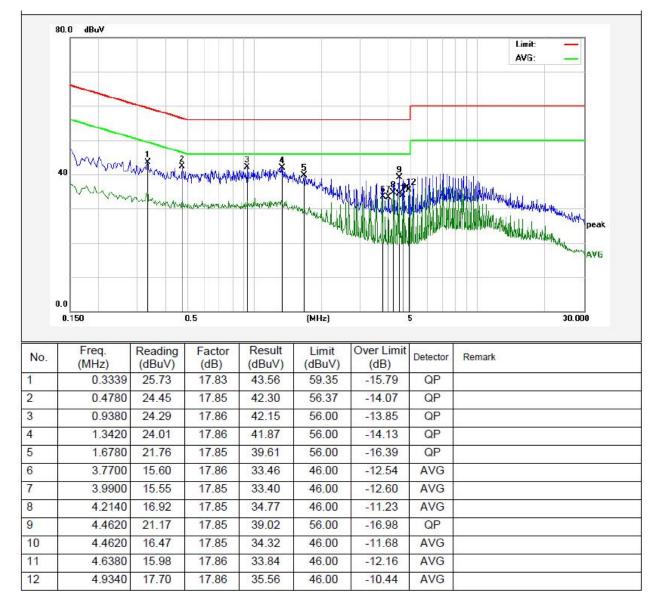






Conducted Emission Test Data

| Test Site: | 1# Shielded Room |
|----------------------|---------------------------------------|
| Operating Condition: | TM1 |
| Test Specification: | DC 9V from adapter input AC 120V/60Hz |
| Comment: | Live Line |
| Temp.(°C)/Hum.(%RH): | 23.9℃/50%RH |



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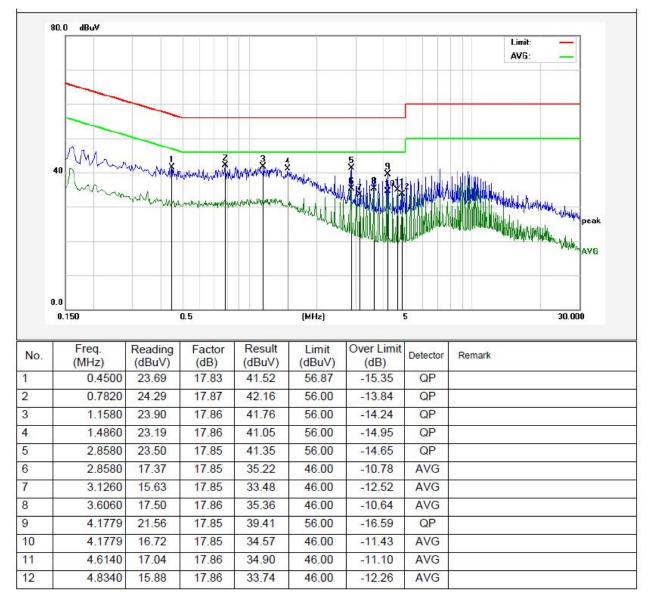






Conducted Emission Test Data

| Test Site: | 1# Shielded Room |
|----------------------|---------------------------------------|
| Operating Condition: | TM1 |
| Test Specification: | DC 9V from adapter input AC 120V/60Hz |
| Comment: | Neutral Line |
| Temp.(℃)/Hum.(%RH): | 23.9℃/50%RH |



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4. Radiation Spurious Emission Test

4.1. Test Standard and Limit

| Test Standard | FCC Part15 C Section 15.209 and 15.205 | | | | | | |
|---|--|-------------------------------------|-------------------|------------|-----------------------------|--|--|
| | Frequency (MHz) | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark | Measurement distance (m) | | |
| | 0.009MHz~0.490MHz | 2400/F(kHz) | (ubuv/iii) | _ | 300 | | |
| | 0.490MHz-1.705MHz | . , | - | - | 30 | | |
| | | 24000/F(kHz) | - | - | | | |
| | 1.705MHz-30MHz | 30 | - | - | 30 | | |
| Test Limit30MHz~88MHz88MHz~216MHz216MHz~960MHz960MHz~1000MHzAbove 1000MHz | 30MHz~88MHz | 100 | 40.0 | Quasi-peak | 3 | | |
| | 88MHz~216MHz | 150 | 43.5 | Quasi-peak | 3 | | |
| | 216MHz~960MHz | 200 | 46.0 | Quasi-peak | 3 | | |
| | 960MHz~1000MHz | 500 | 54.0 | Quasi-peak | 3 | | |
| | | 500 | 54.0 | Average | 3 | | |
| | | - | 74.0 | Peak | 3 | | |

Remark:

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

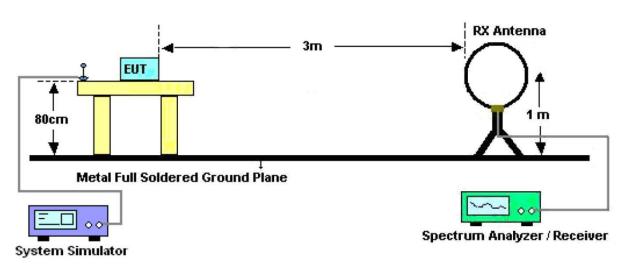


Figure 1. Below 30MHz

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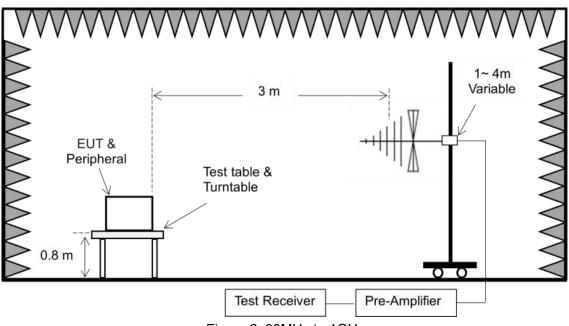


Figure 2. 30MHz to 1GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as: RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as: RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as: RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

During the test, pre-scan all modes, only the worst case is recorded in the report. Please to see the following pages.

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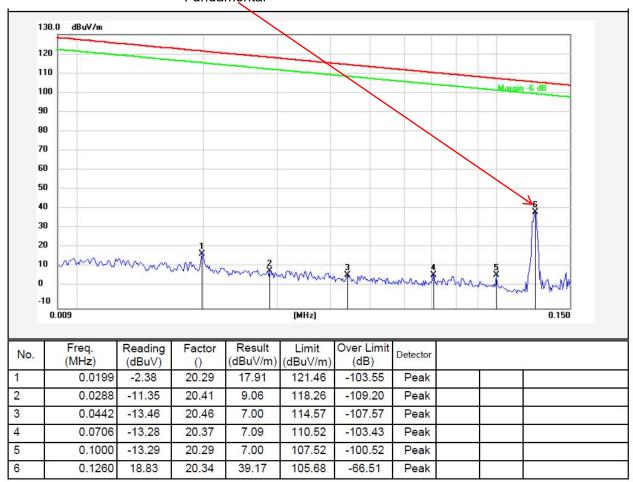






Test Results (Between 9KHz – 150KHz)

| Test Mode: | TM4 |
|---------------------|---------------------------------------|
| Distance: | 3m |
| Power Source: | DC 9V from adapter input AC 120V/60Hz |
| Polarization: | Coplane |
| Temp.(℃)/Hum.(%RH): | 23.5℃/49%RH |
| | Fundamental |



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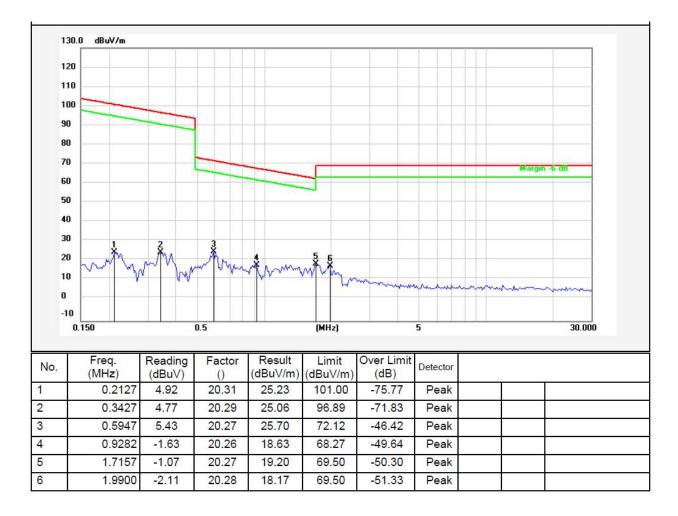






Test Results (Between 0.15MHz - 30MHz)

| Test Mode: | TM4 |
|---------------------|---------------------------------------|
| Distance: | 3m |
| Power Source: | DC 9V from adapter input AC 120V/60Hz |
| Polarization: | Coplane |
| Temp.(℃)/Hum.(%RH): | 23.5℃/49%RH |



Remark: According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.

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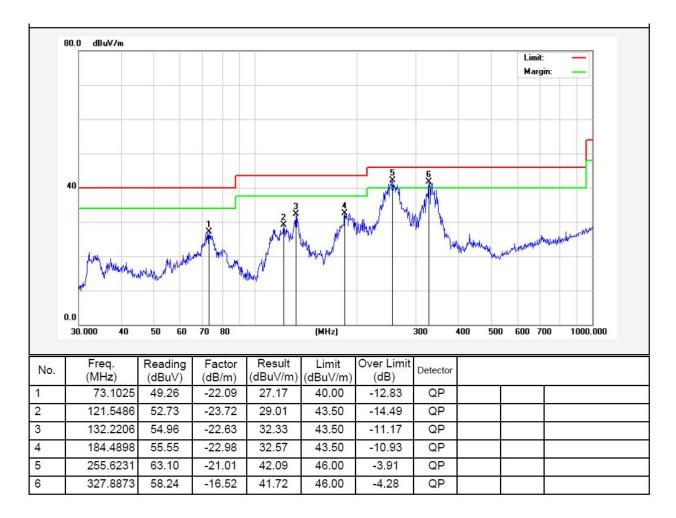






Test Results (Between 30MHz –1000 MHz)

| Test Mode: | TM1 |
|---------------------|---------------------------------------|
| Distance: | 3m |
| Power Source: | DC 9V from adapter input AC 120V/60Hz |
| Polarization: | Horizontal |
| Temp.(℃)/Hum.(%RH): | 20.3℃/46%RH |



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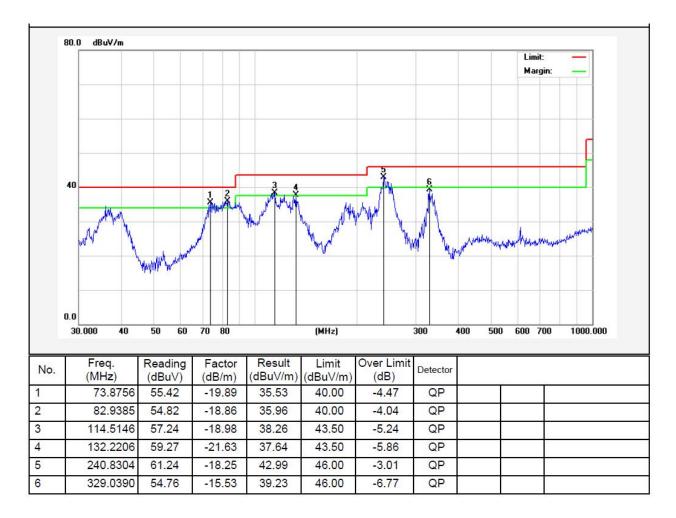
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| Test Mode: | TM1 |
|---------------------|---------------------------------------|
| Distance: | 3m |
| Power Source: | DC 9V from adapter input AC 120V/60Hz |
| Polarization: | Vertical |
| Temp.(℃)/Hum.(%RH): | 20.3℃/46%RH |



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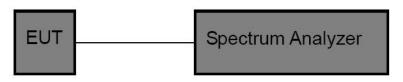


5. 20dB Occupy Bandwidth Test

5.1. Test Standard and Limit

| Test Standard | FCC Part15 C Section 15.215(c) |
|---------------|--|
| Test Limit | Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. |

5.2. Test Setup



5.3. Test Procedure

The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=1%-5%OBW, VBW≥3*RBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

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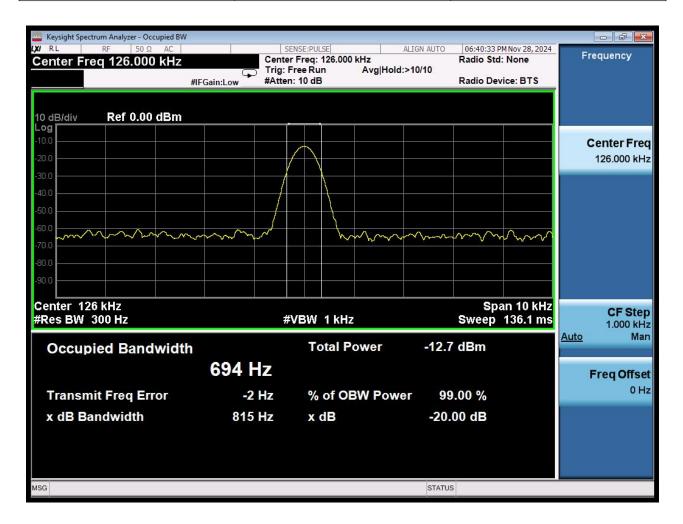


5.4. Test Data

Note: Only the worst case data was showed in the report.

| Temperature: | 24.7 °C | Humidity: | 51 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|
| Test Mode: | TM1 | | | | |

| Freq. (MHz) | 20dB Bandwidth (Hz) | Results |
|----------------|---------------------|---------|
| 0.126 | 815 | PASS |
| 0.1178 | 818 | PASS |
| 0.121 | 816 | PASS |



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| 🔤 Keysight Spectrum Analyzer - Occupied BW | | 5. U | | | |
|--|----------------|----------------------------------|-------------|----------------------------------|-----------------|
| | | SENSE:PULSE er Freq: 117.800 kHz | | :47 PM Nov 28, 2024 Std: None | Frequency |
| Center Freq 117.800 kHz | Trig: | Free Run Avg Hol | d:>10/10 | | |
| #1 | Gain:Low #Atte | en: 10 dB | Radio | Device: BTS | |
| | | | | | |
| 10 dB/div Ref 0.00 dBm Log | 1 | · | | | |
| -10.0 | | | | | Center Freq |
| -20.0 | | | | | 117.800 kHz |
| -30.0 | | | | 0 | |
| -40.0 | / | | | | |
| -50.0 | | | | | |
| -60.0 | | | | | |
| -70.0 | m | man | 1 march | my | |
| -80.0 | | | | | |
| -90.0 | | | | | |
| -90.0 | | | | | |
| Center 117.8 kHz | | | | Span 10 kHz | CF Step |
| #Res BW 300 Hz | | #VBW 1 kHz | Swe | ep 136.1 ms | 1.000 kHz |
| Occupied Bandwidth | | Total Power | -12.7 dBm | | <u>Auto</u> Man |
| | 00711 | | | | |
| | 697 Hz | | | | Freq Offset |
| Transmit Freq Error | -2 Hz | % of OBW Pow | ver 99.00 % | | 0 Hz |
| x dB Bandwidth | 818 Hz | x dB | -20.00 dE | | |
| | 010 HZ | хuв | -20.00 dE | • | |
| | | | | | |
| | | | | | |
| | | | | | |
| MSG | | | STATUS | | |

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| 🦲 Keysight Spectrum Analyzer - Occupied BW | | | | | |
|--|-----------------|---------------------|-------------|-------------------------------------|----------------------|
| ມ⊯ RL RF 50Ω AC Center Freq 121.000 kHz | | r Freg: 121.000 kHz | | 9:12 PM Nov 28, 2024 o Std: None | Frequency |
| | Trig: F | | d:>10/10 | o Device: BTS | |
| #1 | Gain:Low #Atten | 10 dB | Radi | b Device: B 1 S | |
| 10 dB/div Ref 0.00 dBm | | | | | |
| -10.0 | | | | | Center Freq |
| -20.0 | / | | | | 121.000 kHz |
| -30.0 | | | | <u>.</u> | |
| -40.0 | | | | | |
| -50.0 | | | | | |
| -70.0 | | ~~~~ | m | mm | |
| -80.0 | | | | | |
| -90.0 | | | | | |
| Center 121 kHz | | | | Onon 40 kHz | |
| #Res BW 300 Hz | # | VBW 1 kHz | Swe | Span 10 kHz ep 136.1 ms | CF Step 1.000 kHz |
| | | Tetel Devue | 40.7 JD: | | Auto Man |
| Occupied Bandwidth | | Total Power | -12.7 dBr | n | |
| | 694 Hz | | | | Freq Offset |
| Transmit Freq Error | -2 Hz | % of OBW Pow | ver 99.00 % | 6 | 0 Hz |
| x dB Bandwidth | 816 Hz | x dB | -20.00 di | в | |
| | | | | 50 - F | |
| | | | | | |
| | | | 1 | | |
| MSG | | | STATUS | | |

Note: The measured signal is Cw-ike, 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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6. Antenna Requirement

6.1. Test Standard and Requirement

| Test Standard | FCC Part15 Section 15.203 |
|---------------|---|
| | 1) 15.203 requirement: |
| | 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 |
| Requirement | 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. |

6.2. Antenna Connected Construction

The antenna is a Inductive loop coil Antenna which permanently attached. It complies with the standard requirement.

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APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

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