



TEST REPORT

REPORT NUMBER: I23W00017-EMC-Rev2

ON

Type of Equipment: Tracker
Type of Designation: AT Plus 4G2
Brand Name: Prime
Manufacturer: Micron Electronics LLC.
FCC ID: ZKQ-ATP4GA2

ACCORDING TO

Subpart B, PART 15, RADIO FREQUENCY DEVICES

Chongqing Academy of Information and Communications Technology

Month date, year

Jun 20, 2023

Signature

Xiang Luoyong

Director

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of Chongqing Academy of Information and Communications Technology.



Report No.: I23W00017-EMC-Rev2

Revision Version

| Report Number | Revision | Date | Memo |
|--------------------|----------|------------|---------------------------------|
| I23W00017-EMC | 00 | 2023-05-31 | Initial creation of test report |
| I23W00017-EMC-Rev1 | 01 | 2023-06-16 | First change of test report |
| I23W00017-EMC-Rev2 | 01 | 2023-06-20 | Second change of test report |

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1. Test Laboratory

1.1. Testing Location

| | |
|--------------------------|---|
| Name: | Chongqing Academy of Information and Communications Technology |
| FCC Registration Number: | CN1239 |
| Address: | Building C, Technology Innovation Center, No.8, Yuma Road, Chayuan New Area, Nan'an District, Chongqing, People's Republic of China |
| Postal Code: | 401336 |
| Telephone: | 0086-23-88069965 |
| Fax: | 0086-23-88608777 |

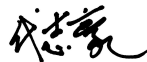
1.2. Testing Environment

| | |
|---------------------|-------------|
| Normal Temperature: | 21.9-24.1°C |
| Relative Humidity: | 55.0-57.0% |

1.3. Project data

| | |
|---------------------|------------|
| Testing Start Date: | 2023-04-28 |
| Testing End Date: | 2023-06-15 |

1.4. Signature



2023-06-20

Dai Zhihao
(Prepared this test report)

Date

2023-06-20

Xiao Yu
(Reviewed this test report)

Date

2023-06-20

**Xiang Luoyong Director of the
laboratory(Approved this test report)**

Date

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2. Client Information

2.1. Applicant Information

| | |
|-----------------|--|
| Company name: | Micron Electronics LLC. |
| Address /Post: | 1001 Yamato Road, Suite 400, Boca Raton, FL 33431, USA |
| City: | USA |
| Country: | Boca Raton |
| Telephone: | 18885383489 |
| Fax: | -- |
| Email: | pcheng@micron-electronics.com |
| Contact Person: | Ping Cheng |

2.2. Manufacturer Information

| | |
|-----------------|--|
| Company name: | Micron Electronics LLC. |
| Address /Post: | 1001 Yamato Road, Suite 400, Boca Raton, FL 33431, USA |
| City: | USA |
| Country: | Boca Raton |
| Telephone: | 18885383489 |
| Fax: | -- |
| Email: | pcheng@micron-electronics.com |
| Contact Person: | Ping Cheng |

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3. Equipment under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

| | |
|---------------------|--|
| EUT Description | tracker |
| Model name | AT Plus 4G2 |
| Brand name | PRIME |
| CATM Frequency Band | 2/4/12/13 |
| Type of modulation | QPSK/16QAM |
| Extreme Temperature | -20/+55°C |
| Power rating | DC 3.7V from battery, DC 5V for USB port |

Note: Photographs of EUT are shown in ANNEX B of this test report.

3.2. Internal Identification of EUT used during the test

| EUT ID | SN or IMEI | HW Version | SW Version | Date of receipt |
|--------|---------------------|------------|------------------------|-----------------|
| S4 | IMEI:35681310138037 | A502_V1 | P51AEV02.01B22. I01 | 2023-04-24 |

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

| AE ID | Description | Info |
|---------|-----------------|------|
| Adapter | TPA-46B050100UU | SZTY |

*AE ID: is used to identify the test sample in the lab internally.

dB*: is provided customer.

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4. Reference Documents

4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

| Reference | Title | Version |
|-----------------------------|-------------------------|---------|
| FCC CFR Part 15, Subpart B, | RADIO FREQUENCY DEVICES | -- |

5. Test Equipments Utilized

| No. | Equipment | Model | SN | HW Version | SW Version | Manufacture | Cal.Due Date |
|-----|-------------------------------------|-----------|--------|------------|------------|-------------|--------------|
| 1 | Test Receiver | ESU26 | 100367 | 01 | 4.43 SP3 | R&S | 2023-06-29 |
| 2 | Test Receiver | ESCI | 101214 | 00 | 4.42 SP2 | R&S | 2023-06-29 |
| 3 | Ultra-wideband Log Periodic Antenna | VULB 9163 | 01392 | -- | -- | Schwarzbeck | 2024-05-04 |
| 4 | Double Ridged Guide Antenna | HF907 | 100357 | -- | -- | R&S | 2025-03-25 |
| 5 | Artificial Main Network | ENV 216 | 101128 | -- | -- | R&S | 2024-05-27 |
| 6 | anechoic chamber | FACT3-2 | -- | -- | -- | ETS | 2025-04-29 |
| 7 | Amplifier1 | 150A | 1429 | -- | -- | Beehive | -- |
| 8 | Amplifier2 | SCU 18 | 10141 | -- | -- | R&S | -- |

Test software

| No. | Name | version | SN | Manufacture |
|-----|-------|-----------|----|-------------|
| 1 | EMC32 | V 8.51.00 | -- | R&S |



6. Test Results

6.1. Summary of Test Results

| FCC Rules | Name of Test | Result |
|---------------------------------|--------------------|--------|
| 15.109 | Radiated Emission | Pass |
| 15.107 | Conducted Emission | Pass |
| Note: N/A means not applicable. | | |

7. Test Results

7.1. Radiated Emission

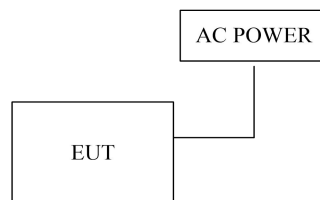
| | |
|-------------------------|--|
| Specifications: | 15.109 |
| Date of Tests | 2023-04-28, 2023-06-15 |
| Test conditions: | Ambient Temperature:21.9-24.1℃ Relative Humidity:55.0%-57.0%RH Air pressure:97.4kPa-98.4kPa |
| Operation Mode | Charging + Normal operation |
| Test Results: | Pass |
| Test location: | Building C, Technology Innovation Center, No.8, Yuma Road, Chayuan New Area, Nan'an District, Chongqing, People' s Republic of China |

Limit Level Construction(Except for Class A digital devices):

| Frequency Range (MHz) | Quasi-Peak (dBuV/m) |
|-----------------------|---------------------|
| 30-88 | 40 |
| 88-216 | 43.5 |
| 216-960 | 46 |
| Above 960 | 54 |

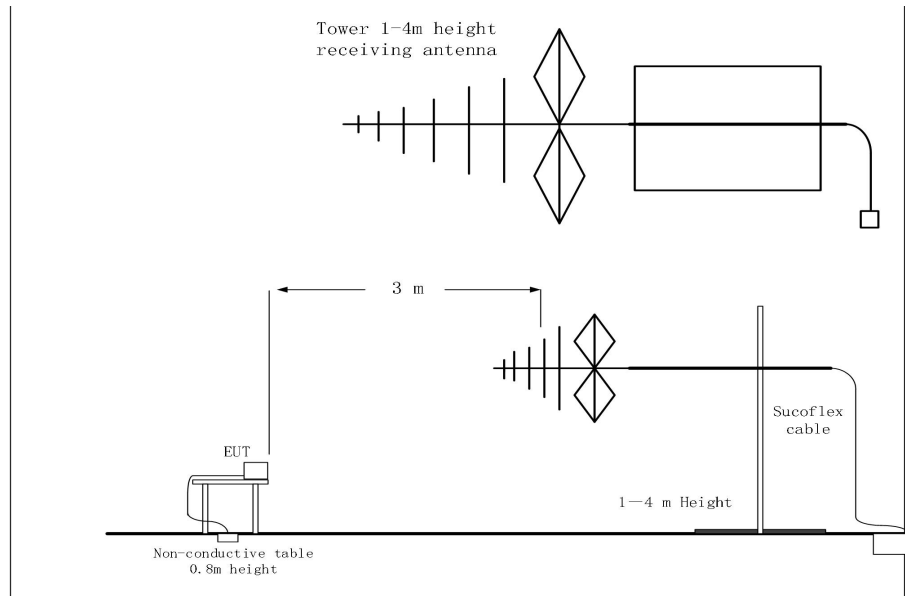
| Frequency Range (MHz) | Peak (dBuV/m) | Average (dBuV/m) |
|-----------------------|---------------|------------------|
| Above 1000 | 74 | 54 |

EUT Setup:



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Test Method:

For 30-1000MHz, the EUT was placed on the top of a rotating 0.8m table above the ground at a semi-anechoic chamber. The distance between the EUT and the received antenna was 3 meters. The table was rotated 360 degree and the received antenna mounted on a variable-height antenna tower was varied from 1m to 4m to find the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set during the measurement. Tested in accordance with the procedures of ANSI C63.4-2014, section 8.3.

For 1000-18000MHz, the maximal emission value was acquired by adjusting the antenna height, and the table was rotated 360 degree to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set during the measurement.

Test Result:

A “reference path loss” is established and Corr is the attenuation of “reference path loss”, and including the gain of receive antenna , the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

$$\text{Corr (dB/m)} = \text{Cable loss (dB)} + \text{Antenna Factor(dB/m)} - \text{Preamplifier gain (dB)}$$

$$\text{Result (dB}\mu\text{V/m)} = \text{PMea (dB}\mu\text{V)} + \text{Corr (dB/m)}$$

Uncertainty Measurement:

The measurement uncertainty(30MHz-150MHz) is 3.79dB(k=2).

The measurement uncertainty(150MHz-1000MHz) is 3.51dB(k=2).

The measurement uncertainty(1000MHz-6000MHz) is 4.84dB(k=2).

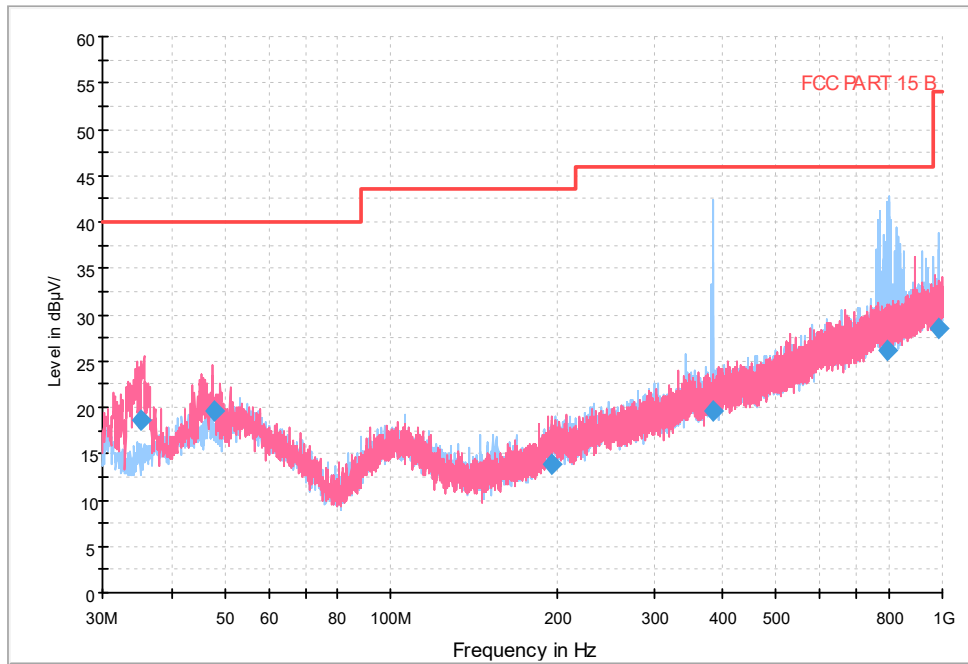
The measurement uncertainty(6000MHz-18000MHz) is 4.84dB(k=2).

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Test Data

RE 30MHz-1GHz



Final_Result

RE 30MHz-1GHz

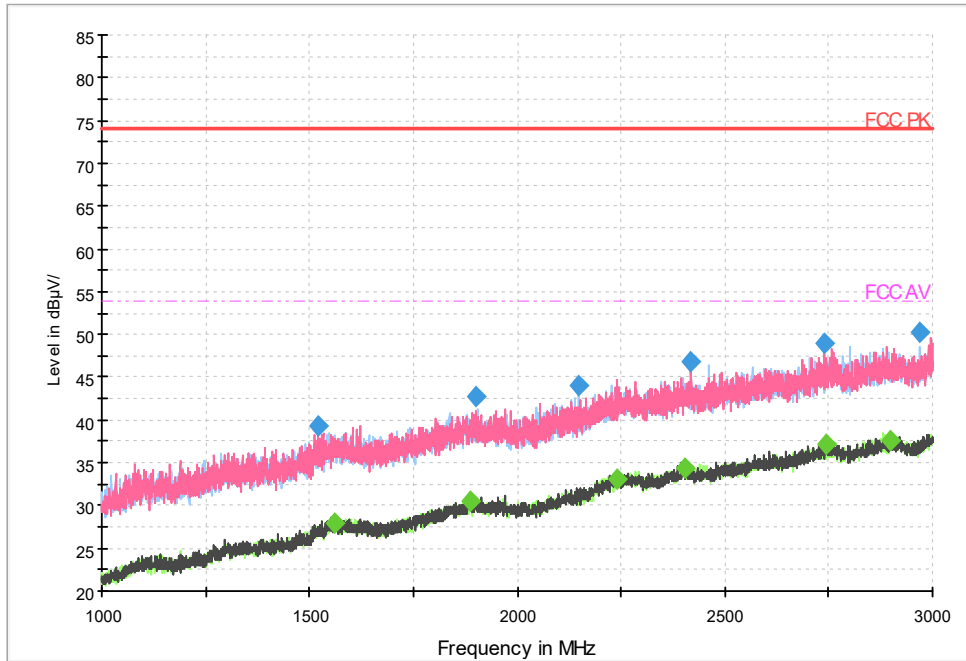
| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|--------------------|------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 35.174500 | 18.5 | 5000.0 | 120.000 | 115.0 | V | 10.0 | -12.8 | 21.5 | 40.0 |
| 47.857000 | 19.6 | 5000.0 | 120.000 | 100.0 | V | 260.0 | -9.6 | 20.4 | 40.0 |
| 195.933500 | 13.9 | 5000.0 | 120.000 | 100.0 | H | 280.0 | -10.7 | 29.6 | 43.5 |
| 384.068000 | 19.5 | 5000.0 | 120.000 | 100.0 | H | 190.0 | -5.7 | 26.5 | 46.0 |
| 796.991000 | 26.1 | 5000.0 | 120.000 | 115.0 | H | 190.0 | 1.5 | 19.9 | 46.0 |
| 986.147000 | 28.5 | 5000.0 | 120.000 | 115.0 | H | 190.0 | 3.5 | 25.5 | 46.0 |

Note: 1. Both H polarization and V polarization are tested. The figure shows the blue value of H polarization and the red value of V polarization synthesis.

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RE 1GHz-3GHz



Final_Result 1

RE 1GHz-3GHz

| Frequency (MHz) | QuasiPeak (dB µ V/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB/m) | Margin (dB) | Limit (dB µ V/m) |
|-----------------|----------------------|-----------------|-----------------|-------------|--------------|---------------|---------------|-------------|------------------|
| 1521.200000 | 39.3 | 1500.0 | 1000.000 | 100.0 | V | 105.0 | 9.3 | 34.7 | 74.0 |
| 1901.800000 | 42.7 | 1500.0 | 1000.000 | 100.0 | H | 264.0 | 12.3 | 31.3 | 74.0 |
| 2149.400000 | 44.0 | 1500.0 | 1000.000 | 100.0 | H | 195.0 | 13.0 | 30.0 | 74.0 |
| 2418.600000 | 46.9 | 1500.0 | 1000.000 | 100.0 | V | 93.0 | 16.0 | 27.1 | 74.0 |
| 2739.800000 | 49.1 | 1500.0 | 1000.000 | 100.0 | V | 75.0 | 19.1 | 24.9 | 74.0 |
| 2969.400000 | 50.3 | 1500.0 | 1000.000 | 100.0 | H | 105.0 | 19.4 | 23.7 | 74.0 |

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Final_Result 2

RE 1GHz-3GHz

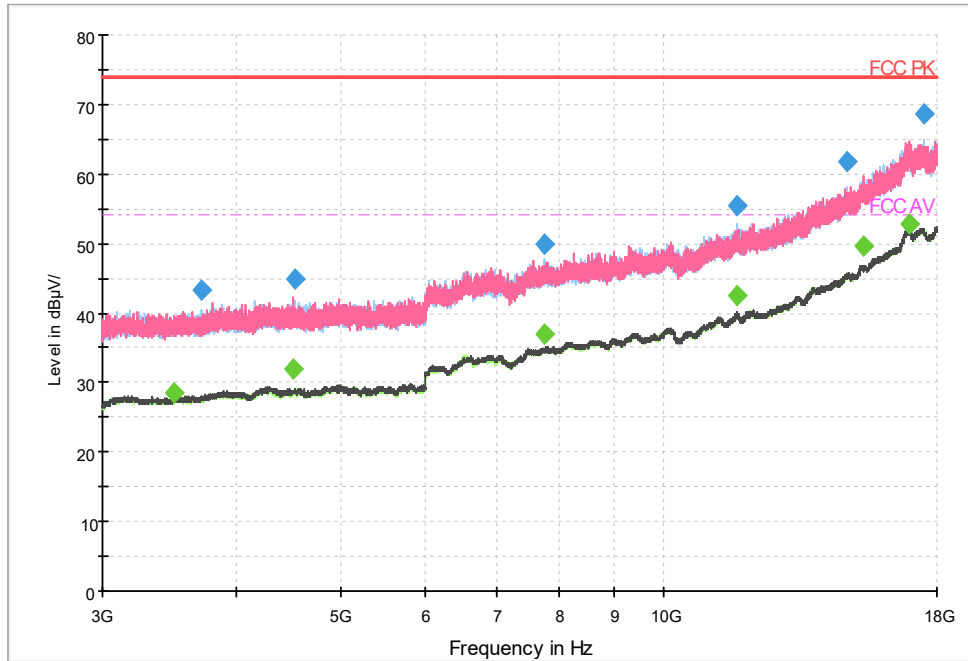
| Frequency (MHz) | Average (dB μ V/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB/m) | Margin (dB) | Limit (dB $\sqrt{V/m}$) |
|-----------------|------------------------|-----------------|-----------------|-------------|--------------|---------------|--------------|-------------|--------------------------|
| 1561.600000 | 28.0 | 1500.0 | 1000.000 | 100.0 | V | 105.0 | 10.0 | 26.0 | 54.0 |
| 1887.400000 | 30.4 | 1500.0 | 1000.000 | 100.0 | H | 165.0 | 12.2 | 23.6 | 54.0 |
| 2239.800000 | 33.1 | 1500.0 | 1000.000 | 100.0 | H | 180.0 | 14.5 | 20.9 | 54.0 |
| 2403.000000 | 34.5 | 1500.0 | 1000.000 | 100.0 | H | 285.0 | 16.1 | 19.5 | 54.0 |
| 2744.400000 | 37.2 | 1500.0 | 1000.000 | 100.0 | H | 180.0 | 19.2 | 16.8 | 54.0 |
| 2900.200000 | 37.6 | 1500.0 | 1000.000 | 100.0 | H | 285.0 | 19.6 | 16.4 | 54.0 |

Note:1.Both H polarization and V polarization are tested. The figure shows the blue value of H polarization and the red value of V polarization synthesis.

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RE 3GHz-18GHz



Final_Result 1

RE 3GHz-18GHz

| Frequency (MHz) | QuasiPeak (dB µ V/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB/m) | Margin (dB) | Limit (dB µ V/m) |
|-----------------|----------------------|-----------------|-----------------|-------------|--------------|---------------|---------------|-------------|------------------|
| 3707.600000 | 43.3 | 1500.0 | 1000.000 | 100.0 | H | 6.0 | 1.7 | 30.7 | 74.0 |
| 4532.400000 | 45.0 | 1500.0 | 1000.000 | 100.0 | H | 15.0 | 4.0 | 29.0 | 74.0 |
| 7740.100000 | 50.0 | 1500.0 | 1000.000 | 100.0 | H | 6.0 | 9.8 | 24.0 | 74.0 |
| 11715.875000 | 55.5 | 1500.0 | 1000.000 | 100.0 | H | 15.0 | 15.7 | 18.5 | 74.0 |
| 14868.850000 | 61.8 | 1500.0 | 1000.000 | 100.0 | H | 0.0 | 21.8 | 12.2 | 74.0 |
| 17509.125000 | 68.7 | 1500.0 | 1000.000 | 100.0 | H | 15.0 | 28.1 | 5.3 | 74.0 |

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Final_Result 2

RE 3GHz-18GHz

| Frequency (MHz) | Average (dB μ V/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB/m) | Margin (dB) | Limit (dB μ V/m) |
|-----------------|------------------------|-----------------|-----------------|-------------|--------------|---------------|--------------|-------------|----------------------|
| 3492.000000 | 28.4 | 1500.0 | 1000.000 | 100.0 | H | 15.0 | 1.0 | 25.6 | 54.0 |
| 4525.100000 | 32.0 | 1500.0 | 1000.000 | 100.0 | H | 15.0 | 3.9 | 22.0 | 54.0 |
| 7738.400000 | 36.9 | 1500.0 | 1000.000 | 100.0 | H | 5.0 | 9.8 | 17.1 | 54.0 |
| 11704.700000 | 42.4 | 1500.0 | 1000.000 | 100.0 | H | -6.0 | 15.6 | 11.6 | 54.0 |
| 15390.550000 | 49.7 | 1500.0 | 1000.000 | 100.0 | H | 15.0 | 23.3 | 4.3 | 54.0 |
| 16954.450000 | 52.7 | 1500.0 | 1000.000 | 100.0 | H | 0.0 | 28.3 | 1.3 | 54.0 |

Note:1.Both H polarization and V polarization are tested. The figure shows the blue value of H polarization and the red value of V polarization synthesis.

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7.2. Conducted Emission

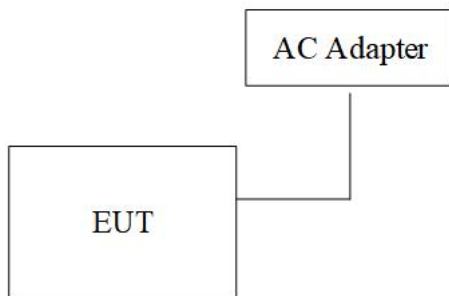
| | |
|-------------------------|---|
| Specifications: | 15.107 |
| Date of Tests | 2023-06-14 |
| Test conditions: | Ambient Temperature:21.9°C Relative Humidity:53.0% Air pressure: 98.0kPa |
| Operation Mode | Charging + Normal operation |
| Test Results: | Pass |
| Test location: | Building C, Technology Innovation Center, No.8, Yuma Road, Chayuan New Area, Nan'an District, Chongqing, People' s Republic of China |
| Note: -- | |

Limit Level Construction:

| Frequency Range (MHz) | Conducted Limit (dBuV) | |
|-----------------------|------------------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

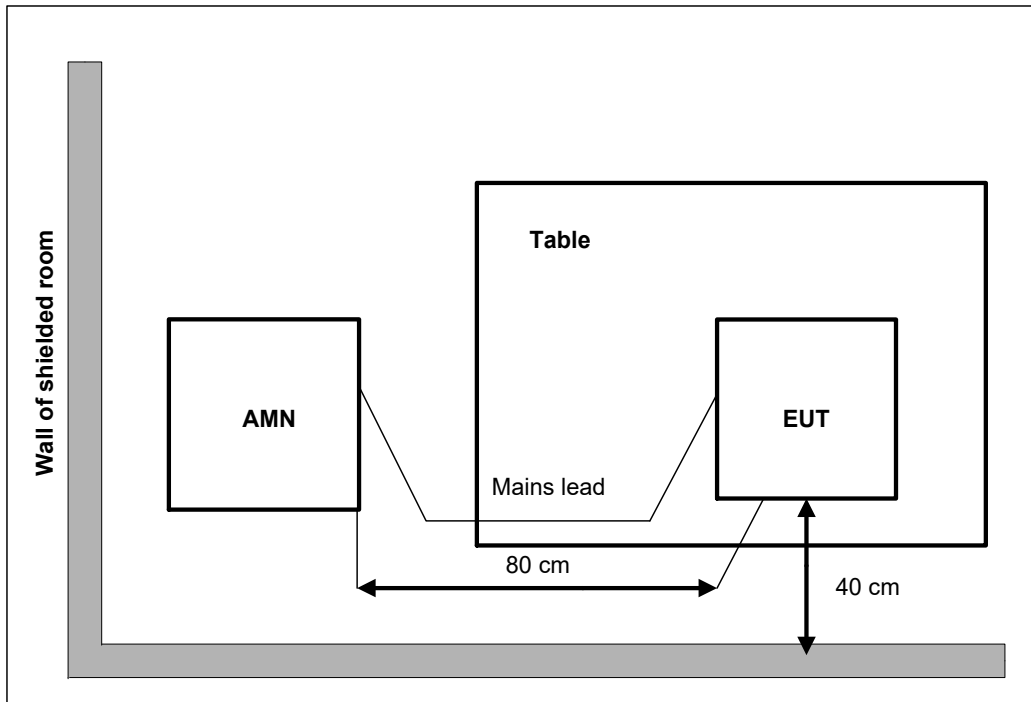
*Decreases with the logarithm of the frequency

EUT Setup:



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**Test Method:**

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies with the band 150 kHz to 30MHz shall not exceed the limits. Both lines of the power mains connected to the EUT were checked for maximum conducted interference. Tested in accordance with the procedures of ANSI C63.4-2014, section 7.3

Uncertainty Measurement:

The measurement uncertainty is 1.83 dB ($k=2$).

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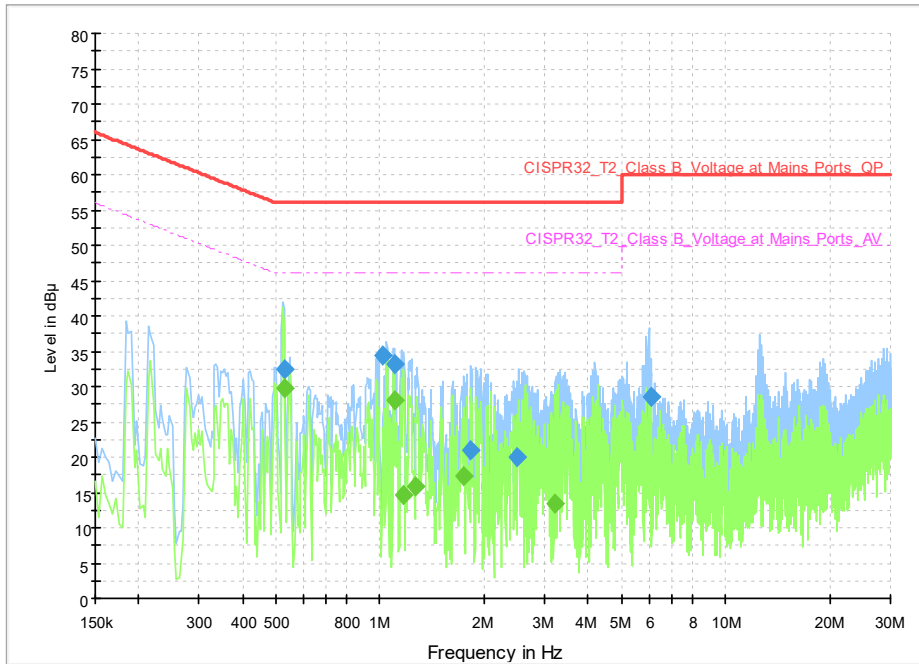
Test Data

Emission level(quasi-peak or Average peak)(dB μ V)=Raw value by receiver(dB μ V) + Corr(Insertion loss+ cable loss) (dB)

The raw value is used to calculate by software which is not shown in the sheet.

Margin (dB) =limit value(dB μ V) – emission level(dB μ V).

Copy of Test of CISPR L1 Voltage 150k to 30MHz-Class B



Final Result 1

| Frequency (MHz) | QuasiPeak (dB μ V) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|-----------------|------------------------|-----------------|-----------------|--------|------|------------|-------------|--------------------|
| 0.529125 | 32.5 | 1000.0 | 9.000 | On | L1 | 9.8 | 23.5 | 56.0 |
| 1.023500 | 34.4 | 1000.0 | 9.000 | On | L1 | 9.9 | 21.6 | 56.0 |
| 1.103706 | 33.1 | 1000.0 | 9.000 | On | L1 | 9.9 | 22.9 | 56.0 |
| 1.834525 | 20.9 | 1000.0 | 9.000 | On | L1 | 10.1 | 35.1 | 56.0 |
| 2.497612 | 20.0 | 1000.0 | 9.000 | On | L1 | 10.2 | 36.0 | 56.0 |
| 6.059406 | 28.5 | 1000.0 | 9.000 | On | L1 | 11.7 | 31.5 | 60.0 |

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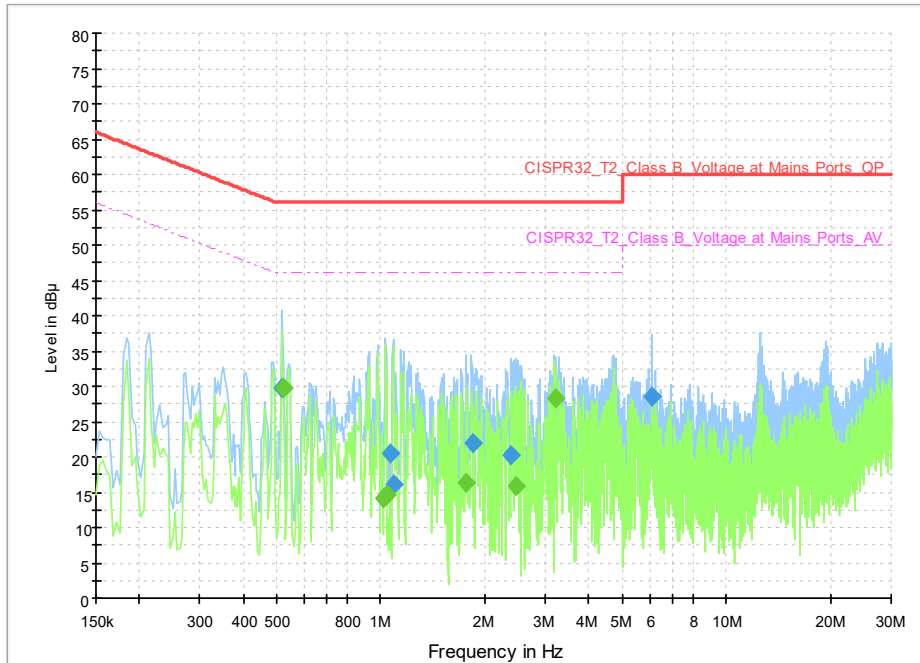
Final Result 2

| Frequency (MHz) | Average (dB μ V) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|--------------------|-------------------------|-----------------------|--------------------|--------|------|---------------|----------------|-----------------------|
| 0.529125 | 29.7 | 1000.0 | 9.000 | On | L1 | 9.8 | 16.3 | 46.0 |
| 1.099231 | 28.1 | 1000.0 | 9.000 | On | L1 | 9.9 | 17.9 | 46.0 |
| 1.167738 | 14.7 | 1000.0 | 9.000 | On | L1 | 9.9 | 31.3 | 46.0 |
| 1.262362 | 15.8 | 1000.0 | 9.000 | On | L1 | 9.9 | 30.2 | 46.0 |
| 1.746525 | 17.3 | 1000.0 | 9.000 | On | L1 | 10.0 | 28.7 | 46.0 |
| 3.203056 | 13.4 | 1000.0 | 9.000 | On | L1 | 10.5 | 32.6 | 46.0 |

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Copy of Test of CISPR N Voltage 150k to 30MHz-Class B



Emission level(quasi-peak or Average peak)(dB μ V)=Raw value by receiver(dB μ V) + Corr(Insertion loss+ cable loss) (dB)

The raw value is used to calculate by software which is not shown in the sheet.

Margin (dB) =limit value(dB μ V) – emission level(dB μ V).

Final Result 1

| Frequency (MHz) | QuasiPeak (dB μ V) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|-----------------|--------------------|-----------------|-----------------|--------|------|------------|-------------|----------------|
| 0.517662 | 29.7 | 1000.0 | 9.000 | On | N | 10.1 | 26.3 | 56.0 |
| 1.064306 | 20.4 | 1000.0 | 9.000 | On | N | 10.2 | 35.6 | 56.0 |
| 1.094631 | 16.1 | 1000.0 | 9.000 | On | N | 10.2 | 39.9 | 56.0 |
| 1.839362 | 22.0 | 1000.0 | 9.000 | On | N | 10.4 | 34.0 | 56.0 |
| 2.375288 | 20.4 | 1000.0 | 9.000 | On | N | 10.5 | 35.6 | 56.0 |
| 6.067881 | 28.6 | 1000.0 | 9.000 | On | N | 12.2 | 31.4 | 60.0 |

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Final Result 2

| Frequency (MHz) | Average (dB μ V) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|--------------------|-------------------------|-----------------------|--------------------|--------|------|---------------|----------------|-----------------------|
| 0.525394 | 29.8 | 1000.0 | 9.000 | On | N | 10.1 | 16.2 | 46.0 |
| 1.020544 | 14.2 | 1000.0 | 9.000 | On | N | 10.2 | 31.8 | 46.0 |
| 1.044306 | 14.8 | 1000.0 | 9.000 | On | N | 10.2 | 31.2 | 46.0 |
| 1.771362 | 16.3 | 1000.0 | 9.000 | On | N | 10.4 | 29.7 | 46.0 |
| 2.470388 | 15.8 | 1000.0 | 9.000 | On | N | 10.6 | 30.2 | 46.0 |
| 3.215388 | 28.2 | 1000.0 | 9.000 | On | N | 10.8 | 17.8 | 46.0 |

Note: Test location: Building C, Technology Innovation Center, No.8, Yuma Road, Chayuan New Area, Nan'an District, Chongqing, People' s Republic of China

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ANNEX A EUT Photos

See the document" I23W00017-External Photos".

See the document" I23W00017-Internal Photos ".

Test photo See the document"I23W00017_EMCC Test Setup Photos".

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ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

*****END OF REPORT*****

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