

Report No.: GZCR220600083002

Page: 1 of 12 FCC ID: 2AGA7MC300

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2206000830AT

Applicant: New Audio LLC

Address of Applicant: 132 W. 31st 7th Floor New York, 10001 United States

Manufacturer: New Audio LLC

Address of Manufacturer: 132 W. 31st 7th Floor New York, 10001 United States

Factory: Shenzhen Everplus Technology Co., Ltd

Address of Factory: AC501 of NCBC Industrial Zone, No.3 Baolong Road 6, Baolong

Community, Baolong Street, Longgang District, Shenzhen 518116

Equipment Under Test (EUT):

EUT Name: Wireless Charge Pad and Headphone Stand

Model No.: MC300

Trade Mark:

M

Standard(s): 47 CFR PART 1, Subpart I, Section 1.1310

47 CFR PART 2, Subpart J, Section 2.1091

Date of Receipt: 2022-06-23

Date of Evaluation: 2022-06-24 to 2022-07-05

Date of Issue: 2022-07-08

Evaluation Result: Pass*

Kobe Jian EMC Laboratory Manager

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^{*} In the configuration evaluated, the EUT complied with the standards specified above.



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| | Revision Record | | | | | | | |
|---------|-----------------|------------|----------|----------|--|--|--|--|
| Version | Chapter | Date | Modifier | Remark | | | | |
| 01 | | 2022-07-08 | | Original | | | | |
| | | | | | | | | |
| | | | | | | | | |

| Authorized for issue by | | |
|-------------------------|---------------------------|--|
| | Cof Vlu | |
| | Curry Wu/Project Engineer | |
| | Riday Liu | |
| | Ricky Liu/Reviewer | |



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2 Evaluation Summary

| Radio Spectrum Matter Part | | | | | | | | |
|----------------------------|--|--|--------------------|--------|--|--|--|--|
| Item | Standard | Method | Requirement | Result | | | | |
| RF Exposure | 47 CFR PART 1, Subpart I, Section 1.1310 | KDB 680106 D01 TCB Workshop Presentation November 2019 RF Exposure | CFR 47 Part 1.1310 | Pass | | | | |

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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4 General Information

4.1 Details of E.U.T.

Power supply: Input: 9V/3.5A

Output: Wireless Base 10W, USB-C out port 15W

Inputs: 5V/3A, 9V/2A

Output: Wireless Base 5W, USB-C out port 10W

Cable(s): DC Output cable:20cm unshielded

DC Input cable:100cm unshielded

Operation frequency: 112.2kHz to 148.4kHz

Modulation Type: Load modulation
Antenna Type: Loop antenna

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|--|---------------------|------------|------------------|
| Resistor | HUAXUN | 2A30 | RI01 |
| Resistor | HUAXUN | 8A12 | RI03 |
| Mobile Phone | SAMSUNG | SM-G9810 | RFCN309Q9QF |
| True Wireless Stereo Bluetooth Earphone | New Audio LLC | MW08 Sport | N/A |
| Adapter | Customer by Provide | CW20A | N/A |
| E-loading | SGS | N/A | REF. No.SEA42A00 |
| E-loading | SGS | N/A | REF. No.SEA42A01 |
| E-loading | SGS | N/A | REF. No.SEA42A02 |

4.3 Test modes description:

| Pre-scan / Final test | Mode Code | Description | | | | |
|--------------------------|-----------|--|--|--|--|--|
| Pre-scan | 00 | Wireless charging mode(Wireless earbud)_Keep the EUT wireless charging (5W) | | | | |
| Pre-scan | 01 | Wireless charging mode(Mobile Phone)_Keep the EUT wireless charging (10W) | | | | |
| Pre-scan | 02 | Wireless charging+discharging mode(Wireless earbud)_Keep the EUT wireless charging (5W) and discharging(10W) | | | | |
| Final test | 03 | Wireless charging+discharging mode(Mobile Phone)_Keep the EUT wireless charging (5W) and discharging(15W) | | | | |

4.4 Measurement Uncertainty

| Test Item | Measurement Uncertainty |
|------------------------|-------------------------|
| RF Exposure Evaluation | MF: 0.13dB, EF: 0.4dB |



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5 Equipments Used during Test

| RF Exposure | | | | | | | | |
|--|----------------------|----------|--------------|------------|--------------|--|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | | |
| 743 Compact 3m Semi- Anechoic Chamber | ChangZhou ZhongYu | N/A | EMC0525 | 2019-10-20 | 2022-10-19 | | | |
| Electric and Magnetic Field Analyzer | Narada | NBM-550 | EMC2143 | 2022-01-06 | 2023-01-05 | | | |
| Probe | Narada | EHP-50F | EMC2143 | 2022-01-06 | 2023-01-05 | | | |

| General used equipment | | | | | | | |
|------------------------|--------------|----------|--------------|------------|--------------|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | |
| DMM | Fluke | 73 | EMC0006 | 2021-07-08 | 2022-07-07 | | |
| DMM | Fluke | 73 | EMC0007 | 2021-07-08 | 2022-07-07 | | |



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5.1 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

5.2 Facility

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

• NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

• SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

• FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

• ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

• CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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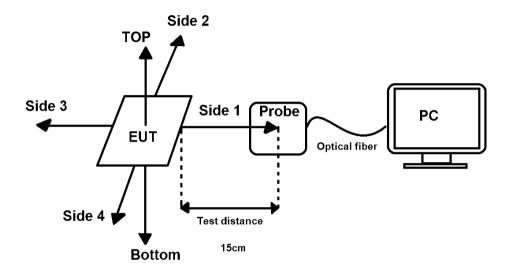
5.3 Deviation from Standards

None

5.4 Abnormalities from Standard Conditions

None

5.5 Test Block Diagram





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6 Test Results

6.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310

Measurement Distance: 15cm

Limit:

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in Part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency range (MHz) | cy range Electric field strength Magnetic field strength Hz) (V/m) (A/m) | | Power density (mW/cm²) | Averaging time (minutes) | | | | |
|---------------------------|--|--------------------------|------------------------|--------------------------|--|--|--|--|
| | (A) Limits for Occ | cupational/Controlled Ex | posures | | | | | |
| 0.3-3.0 614 1.63 *(100) 6 | | | | | | | | |
| 3.0-30 | 1842/f | 4.89/f | *(900/f²) | 6 | | | | |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 | | | | |
| 300-1500 | / | / | f/300 | 6 | | | | |
| 1500-100,000 | / | / | 5 | 6 | | | | |
| | (B) Limits for Genera | l Population/Uncontrolle | ed Exposure | | | | | |
| 0.3-1.34 | 614 | 1.63 | *(100) | 30 | | | | |
| 1.34-30 | 824/f | 2.19/f | *(180/f²) | 30 | | | | |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 | | | | |
| 300-1500 | / | / | f/1500 | 30 | | | | |
| 1500-100,000 | / | / | 1.0 | 30 | | | | |

F=frequency in MHz

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

According to IEEE C95.3:2002 section 5.5.1.1, The power density S at a point on the axis at a distance d from a transmitting antenna is given by the Friis free-space transmission formula

$$S = \frac{PG}{4\pi d^2}$$

 $S = power density (mW/cm^2)$

P =the net power delivered to the antenna (mW)

G = gain of the antenna in linear scale

d = distance between observation point and center of the radiator (cm)



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^{*=}Plane-wave equivalent power density



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6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C Humidity: 51.4% RH Atmospheric Pressure: 1010 mbar

EUT Operation:

This device has been tested with unload, half-load and full load, and the device has been tested with load at zero charge, intermediate charge, and full charge.

Remark: Both configuration which specified in the manual were pre-scan during the test, only the worst case data are shown in the test report. The worst case configuration please refer to the setup photos.



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6.1.2 Measurement Data

Mode 03:

EMC-TRF-03

Input Voltage=DC 9V; The max output power =10W for each coil.

Magnetic Field Emissions

| Operation frequency | Test Distance (cm) | Test Position | Prol | be Measure Re (A/m) | 50 % Limit (A/m) | 10 % Limit (A/m) | |
|---------------------------------|--------------------------|------------------|--------|------------------------|------------------------|------------------------|-------|
| nequency | | 1 03111011 | unload | Half load | full load | | |
| 125 kHz | | Side 1 | 0.078 | 0.089 | 0.107 | | |
| which is the worst | | Side 2 | 0.077 | 0.089 | 0.105 | | |
| case | 45 | Side 3 | 0.079 | 0.088 | 0.112 | 0.045 | 0.400 |
| within the | 15 | Side 4 | 0.082 | 0.095 | 0.115 | 0.815 | 0.163 |
| operation frequency range | | Тор | 0.086 | 0.101 | 0.117 | | |

Magnetic Field Emissions

| - Wagnetic i | Magnetic Field Elitissions | | | | | | | | | |
|---------------------------------|----------------------------|------------------|---------------------------|------------------------|----------------|---------------|---------------|--|--|--|
| Oneration | Test Distance | Toot | Probe Measure Result(A/m) | | | 50 % Limit | 10 % Limit | | | |
| Operation frequency | (cm) | Test Position | zero charge | intermediate charge | full charge | (A/m) | (A/m) | | | |
| 125 kHz | | Side 1 | 0.105 | 0.088 | 0.070 | | | | | |
| which is | | Side 2 | 0.109 | 0.089 | 0.072 | | | | | |
| the worst case | 4- | Side 3 | 0.110 | 0.093 | 0.074 | 0.045 | 0.400 | | | |
| within the | 15 | Side 4 | 0.113 | 0.095 | 0.075 | 0.815 | 0.163 | | | |
| operation frequency range | | Тор | 0.116 | 0.097 | 0.076 | | | | | |



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7 Photographs- RF exposure Setup photos

Refer to Appendix - RF Exposure Setup Photo for GZCR2206000830AT

- End of the Report -



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