
EMC Test Report

Report No.: AGC16631250318EE01

PRODUCT DESIGNATION : Car Audio Amplifier
BRAND NAME : N/A
MODEL NAME : RL680.1
APPLICANT : AVS(NINGBO) INDUSTRIAL CO.,LTD.
DATE OF ISSUE : Apr. 02, 2025
STANDARD(S) : EN 50498:2010
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Report Revise Record

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0 | / | Apr. 02, 2025 | Valid | Initial release |

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1. GENERAL INFORMATION

| | |
|------------------------------|---|
| Applicant | AVS(NINGBO) INDUSTRIAL CO.,LTD. |
| Address | 7TH BUILDING, NO.59 CHANUG FU ROAD, XIAO GANG INDUSTRIAL ZONE, NINGBO 315800, CHINA |
| Manufacturer | AVS(NINGBO) INDUSTRIAL CO.,LTD. |
| Address | 7TH BUILDING, NO.59 CHANUG FU ROAD, XIAO GANG INDUSTRIAL ZONE, NINGBO 315800, CHINA |
| Factory | AVS(NINGBO) INDUSTRIAL CO.,LTD. |
| Address | 7TH BUILDING, NO.59 CHANUG FU ROAD, XIAO GANG INDUSTRIAL ZONE, NINGBO 315800, CHINA |
| Product Designation | Car Audio Amplifier |
| Brand Name | N/A |
| Test Model | RL680.1 |
| Series Model | N/A |
| Difference Description | N/A |
| Date of receipt of test item | Mar. 11, 2025 |
| Date of test | Mar. 11, 2025~ Apr. 02, 2025 |
| Deviation | None |
| Test Result | Pass |
| Report Template | AGCTR-ER-CE-ECEV1.0 |

Prepared By Jack Gui
 Jack Gui
 (Project Engineer) Apr. 02, 2025

Reviewed By Calvin Liu
 Calvin Liu
 (Reviewer) Apr. 02, 2025

Approved By Angela Li
 Angela Li
 (Authorized Officer) Apr. 02, 2025

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2. PRODUCT INFORMATION

2.1 PRODUCT TECHNICAL DESCRIPTION

| | |
|--------------------------|-------------------|
| Housing Type | Plastic and metal |
| Hardware Version | N/A |
| Software Version | N/A |
| EUT Input Rating | DC 10-16V, 20A |
| EUT Output Rating | N/A |

I/O Port Information (☒Applicable ☐Not Applicable)

| Port Type | Input/Output | Number | Cable Description |
|----------------|--------------|--------|-------------------|
| Power Input | Input | 1 | -- |
| INPUT(4Pin) | Input | 1 | 0.3m unshielded |
| BRIDGED(4Pin) | Input/Output | 1 | 0.3m unshielded |
| Speaker Output | Output | 4 | -- |
| REMOTE | Input | 1 | 4.9 unshielded |

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2.2 EQUIPMENT USED IN TESTED SYSTEM

The Following Peripheral Devices And Interface Cables Were Connected During The Measurement:

☒ Test Accessories Come From The Laboratory

| Device Type | Manufacturer | Model Name | Serial No. | Data Cable | Power Cable |
|-------------------|--------------|------------|------------|------------|-------------|
| Cement resistance | -- | -- | -- | -- | -- |
| Speaker | LANG FAN | LONVIN D1 | -- | -- | -- |
| Battery | -- | -- | -- | -- | -- |
| Phone | LOGICOM | LUNAR | -- | -- | -- |

☐ Test Accessories Come From The Manufacturer

| Device Type | Manufacturer | Model Name | Serial No. | Data Cable | Power Cable |
|-------------|--------------|------------|------------|------------|-------------|
| -- | -- | -- | -- | -- | -- |

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2.3 TEST MODE DESCRIPTION

| TEST MODE | |
|-----------|---------------------|
| Mode 1 | Audio playback mode |

2.4 OBSERVATION METHOD FOR IMMUNITY TEST

| Method | Description of The Monitoring Methods |
|--------|---|
| Visual | Observe the phenomena of the indicator lights and sounds of the DUT |

2.5 CLASSIFICATION OF FUNCTIONAL STATUS

| EN 50498:2010 | |
|--------------------|--|
| Criteria A: | All functions of a device/system perform as designed during and after exposure to disturbance. |
| Criteria B: | All functions of a device/system perform as designed during exposure. However, one or more of them can go beyond specified tolerance. All functions return automatically to within normal limits after exposure is removed. Memory functions shall remain class A. |
| Criteria C: | One or more functions of a device/system do not perform as designed during exposure but return automatically to normal operation after exposure is removed. |
| Criteria D: | One or more functions of a device/system do not perform as designed during exposure and do not return to normal operation until exposure is removed and the device/system is reset by simple "operator/use" action. |
| Criteria E: | One or more functions of a device/system do not perform as designed during and after exposure and cannot be returned to proper operation without repairing or replacing the device/system. |

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3. TEST ENVIRONMENT

3.1 ADDRESS OF THE TEST LABORATORY

Laboratory Name: Attestation of Global Compliance (Shenzhen) Co., Ltd

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 TEST FACILITY

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

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

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3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

| Item | Measurement Uncertainty |
|--|-------------------------|
| Uncertainty of Radiated Emission-ALSE Method | $\pm 4.0\text{dB}$ |

3.4 LIST OF EQUIPMENTS USED

TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment Name | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|-----------------------------|---------------|---------|-----------|------------|------------|
| V-Network | R&S | ESH3-Z6 | N/A | 2024/05/24 | 2025/05/23 |
| V-Network | R&S | ESH3-Z6 | N/A | 2024/05/24 | 2025/05/23 |
| Biconical Antenna | ETS-Lindgren | 3104C | 8907-4069 | 2025/03/24 | 2026/03/23 |
| Log Periodic Dipole Antenna | Rohde&Schwarz | HL223 | N/A | 2025/03/24 | 2026/03/23 |

TEST EQUIPMENT OF TRANSIENT EMISSION

| Equipment Name | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|--|--------------|-----------|-----|------------|------------|
| V-Network | R&S | ESH3-Z6 | N/A | 2024/05/24 | 2025/05/23 |
| Vehicle Transient Conduction Test Device | 3c-Test | VTE 743T1 | N/A | 2024/05/15 | 2025/05/14 |
| Electronic Switch | Schaffner | NSG417 | N/A | 2025/03/24 | 2026/03/23 |

TEST EQUIPMENT OF TRANSIENT IMMUNITY TEST

| Equipment Name | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|--------------------------------|--------------|----------|------------|------------|------------|
| Automotive transient simulator | NOISEKEN | ISS-7610 | ISS0930327 | 2025/03/24 | 2026/03/23 |
| Automotive transient simulator | NOISEKEN | ISS-7630 | ISS0930329 | 2025/03/24 | 2026/03/23 |
| Automotive transient simulator | NOISEKEN | ISS-7690 | ISS0930330 | 2025/03/24 | 2026/03/23 |
| Automotive transient simulator | NOISEKEN | ISS-7650 | ISS0930326 | 2025/03/24 | 2026/03/23 |

Note: The equipment check before test.

4. TEST ITEMS AND THE RESULTS

| Description of Test Item | Standard | Results |
|--------------------------|---------------|---------|
| Radiated Emission | EN 50498:2010 | Pass |
| Transient Emission | EN 50498:2010 | Pass |
| Transient Immunity | EN 50498:2010 | Pass |

Note:

1. Each test item follows test standard and with no deviation.
2. "Pass" represents "result meets the requirement"; "Fail" represents "result doesn't meet the requirement";
3. "N/A or —" represents "result doesn't judge".

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5. RADIATED EMISSION TEST

5.1 DESCRIPTION OF THE TEST LOCATION

Test location: Semi-anechoic Chamber

Test distance: 1 meter

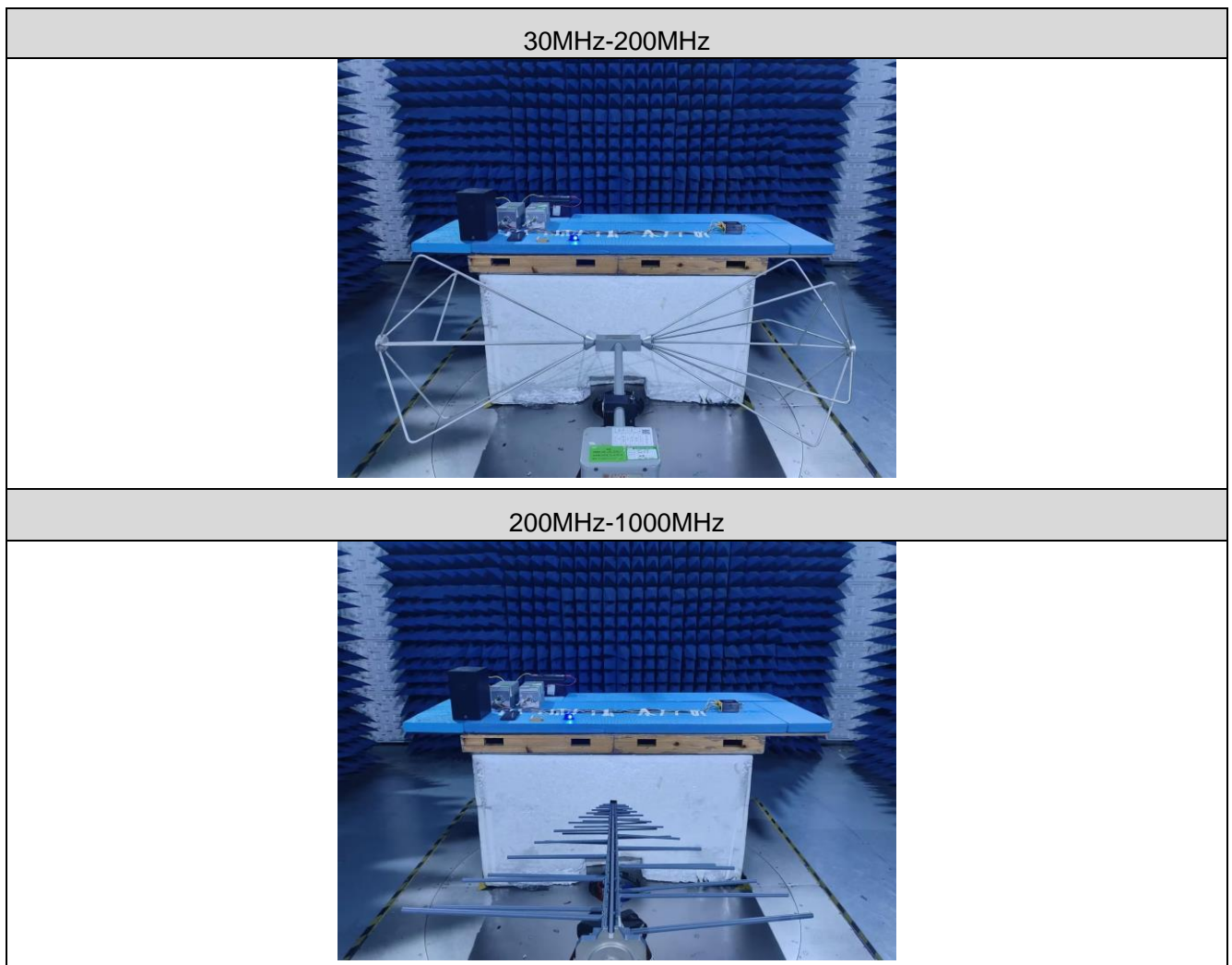
5.2 TEST SPECIFICATION

Frequency range: 30MHz – 1000MHz

The test was carried out in the following operation mode(s):

- DC 12V

5.3 PHOTO DOCUMENTATION OF THE TEST SET-UP



Note:

The ESA was placed in a height of 5 cm, isolated to the ground plane. There was no connection to the ground plane. The ESA has to be installed isolated from the vehicle ground.

Cables which are longer than 2m have been bundled to a length of 2 m.

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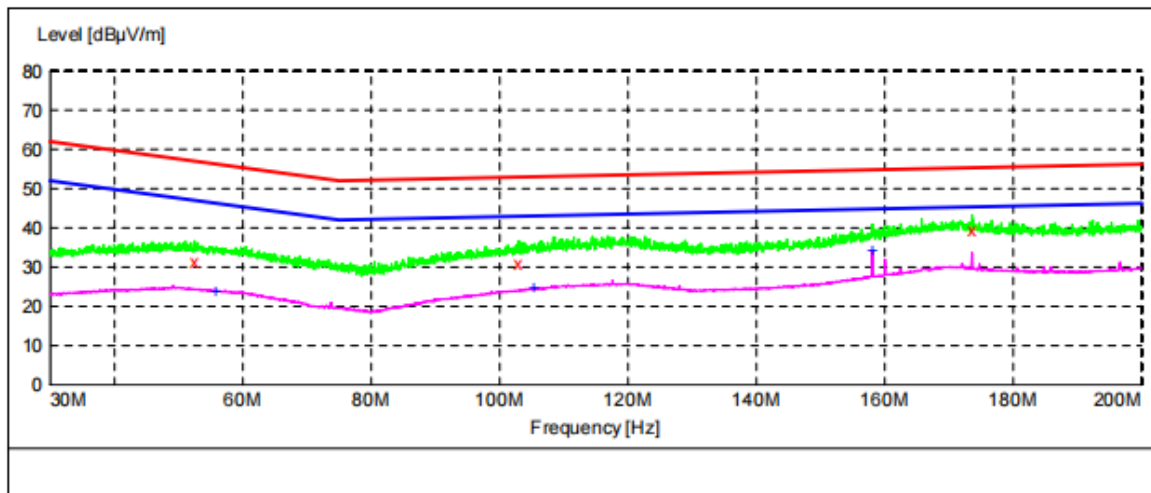
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5.4 TEST RESULT

| | | | |
|-----------------------|---------------------|------------------|--------------|
| EUT Name: | Car Audio Amplifier | Sample Number: | 250311083 |
| Test Voltage: | DC 13.5V | Model(s): | RL680.1 |
| Antenna Polarisation: | Horizontal | Frequency Range: | 30MHz–200MHz |
| Temperature: | 18.4℃ | Humidity: | 58.1% |
| Worst Mode: | Mode 1 | Test Result: | Pass |



MEASUREMENT RESULT :

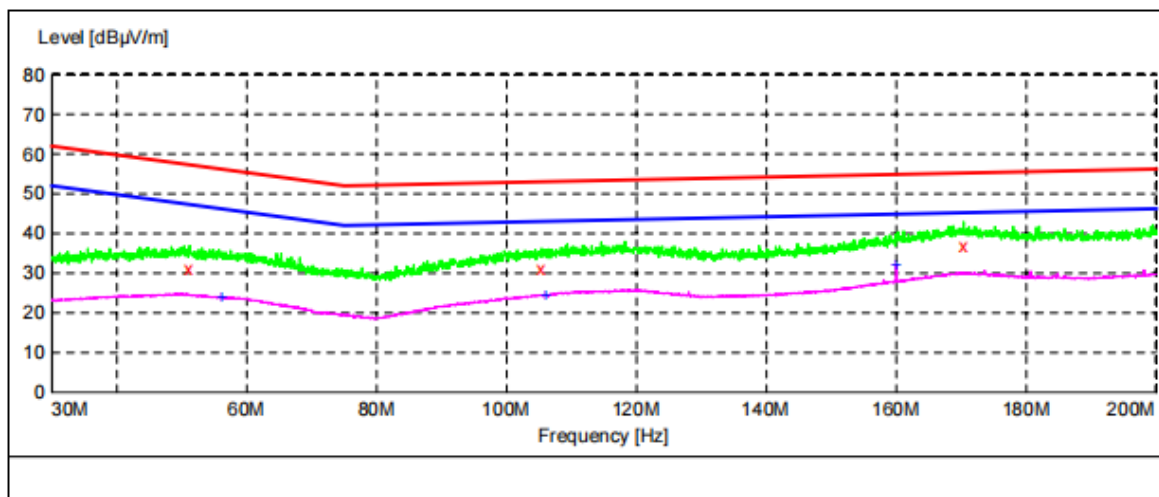
| Frequency MHz | Level dBuV/m | Transd dB | Limit dBuV/m | Margin dB | Detector |
|------------------|-----------------|--------------|-----------------|--------------|----------|
| 52.440000 | 31.20 | 13.8 | 57.0 | 25.8 | QP |
| 102.960000 | 30.80 | 13.8 | 52.9 | 22.1 | QP |
| 173.580000 | 39.30 | 19.4 | 55.3 | 16.0 | QP |

MEASUREMENT RESULT :

| Frequency MHz | Level dBuV/m | Transd dB | Limit dBuV/m | Margin dB | Detector |
|------------------|-----------------|--------------|-----------------|--------------|----------|
| 55.800000 | 24.00 | 13.3 | 46.3 | 22.3 | AV |
| 105.360000 | 24.50 | 14.2 | 43.0 | 18.5 | AV |
| 158.040000 | 34.00 | 17.0 | 44.8 | 10.8 | AV |

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| | | | |
|------------------------------|---------------------|-------------------------|--------------|
| EUT Name: | Car Audio Amplifier | Sample Number: | 250311083 |
| Test Voltage: | DC 13.5V | Model(s): | RL680.1 |
| Antenna Polarisation: | Vertical | Frequency Range: | 30MHz–200MHz |
| Temperature: | 18.4℃ | Humidity: | 58.1% |
| Worst Mode | Mode 1 | Test Result: | Pass |



MEASUREMENT RESULT:

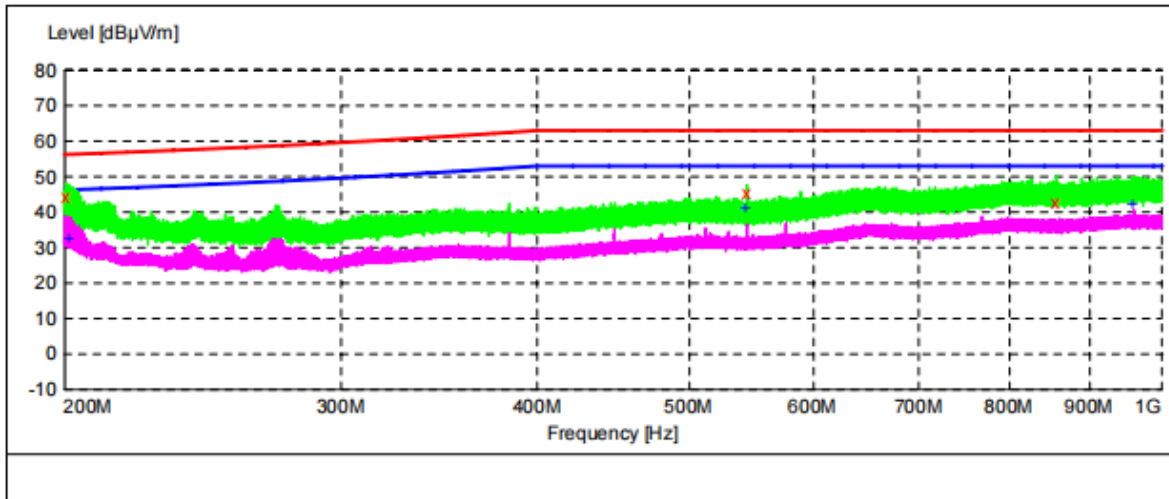
| Frequency MHz | Level dBμV/m | Transd dB | Limit dBμV/m | Margin dB | Detector |
|------------------|-----------------|--------------|-----------------|--------------|----------|
| 51.180000 | 31.30 | 13.9 | 57.3 | 26.0 | QP |
| 105.420000 | 31.20 | 14.2 | 53.0 | 21.8 | QP |
| 170.340000 | 36.70 | 19.7 | 55.2 | 18.5 | QP |

MEASUREMENT RESULT:

| Frequency MHz | Level dBμV/m | Transd dB | Limit dBμV/m | Margin dB | Detector |
|------------------|-----------------|--------------|-----------------|--------------|----------|
| 56.340000 | 23.80 | 13.2 | 46.1 | 22.3 | AV |
| 105.960000 | 24.60 | 14.3 | 43.0 | 18.4 | AV |
| 160.020000 | 31.90 | 17.5 | 44.9 | 13.0 | AV |

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| | | | |
|------------------------------|---------------------|-------------------------|-------------|
| EUT Name: | Car Audio Amplifier | Sample Number: | 250311083 |
| Test Voltage: | DC 13.5V | Model(s): | RL680.1 |
| Antenna Polarisation: | Horizontal | Frequency Range: | 200MHz–1GHz |
| Temperature: | 18.4℃ | Humidity: | 58.1% |
| Worst Mode | Mode 1 | Test Result: | Pass |



MEASUREMENT RESULT:

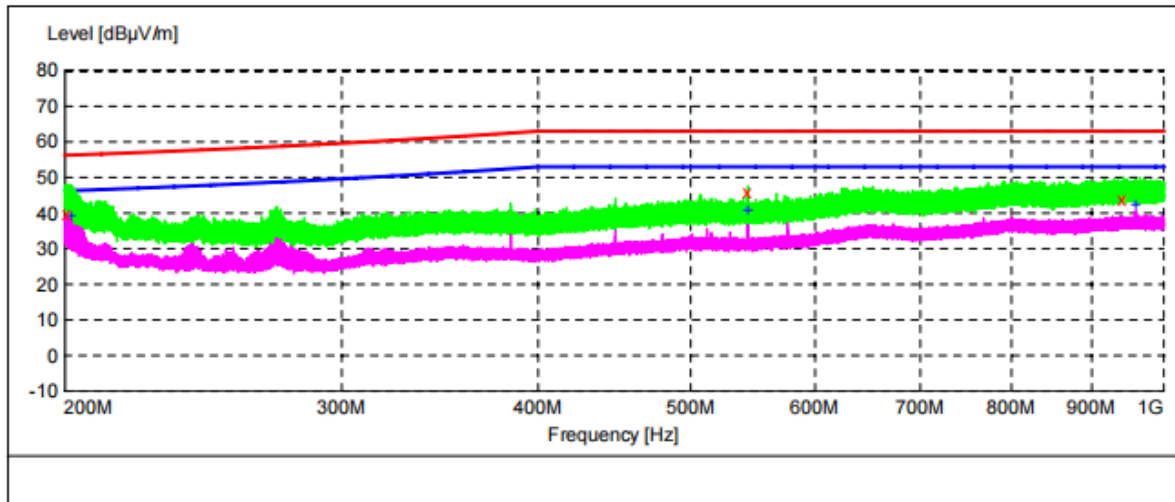
| Frequency MHz | Level dBμV/m | Transd dB | Limit dBμV/m | Margin dB | Detector |
|------------------|-----------------|--------------|-----------------|--------------|----------|
| 200.460000 | 44.60 | 19.4 | 56.2 | 11.6 | QP |
| 543.985000 | 45.60 | 22.1 | 63.0 | 17.4 | QP |
| 856.990000 | 42.90 | 26.6 | 63.0 | 20.1 | QP |

MEASUREMENT RESULT:

| Frequency MHz | Level dBμV/m | Transd dB | Limit dBμV/m | Margin dB | Detector |
|------------------|-----------------|--------------|-----------------|--------------|----------|
| 201.490000 | 32.30 | 19.4 | 46.3 | 14.0 | AV |
| 544.000000 | 41.10 | 22.1 | 53.0 | 11.9 | AV |
| 959.990000 | 42.20 | 27.9 | 53.0 | 10.8 | AV |

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| | | | |
|------------------------------|---------------------|-------------------------|-------------|
| EUT Name: | Car Audio Amplifier | Sample Number: | 250311083 |
| Test Voltage: | DC 13.5V | Model(s): | RL680.1 |
| Antenna Polarisation: | Vertical | Frequency Range: | 200MHz-1GHz |
| Temperature: | 18.4°C | Humidity: | 58.1% |
| Worst Mode | Mode 1 | Test Result: | Pass |



MEASUREMENT RESULT:

| Frequency MHz | Level dBµV/m | Transd dB | Limit dBµV/m | Margin dB | Detector |
|------------------|-----------------|--------------|-----------------|--------------|----------|
| 200.745000 | 39.60 | 19.4 | 56.3 | 16.7 | QP |
| 544.010000 | 46.00 | 22.1 | 63.0 | 17.0 | QP |
| 942.600000 | 44.10 | 27.8 | 63.0 | 18.9 | QP |

MEASUREMENT RESULT:

| Frequency MHz | Level dBµV/m | Transd dB | Limit dBµV/m | Margin dB | Detector |
|------------------|-----------------|--------------|-----------------|--------------|----------|
| 201.720000 | 39.10 | 19.4 | 46.3 | 7.2 | AV |
| 544.005000 | 41.00 | 22.1 | 53.0 | 12.0 | AV |
| 960.000000 | 42.30 | 27.9 | 53.0 | 10.7 | AV |

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6. TRANSIENT EMISSION TEST

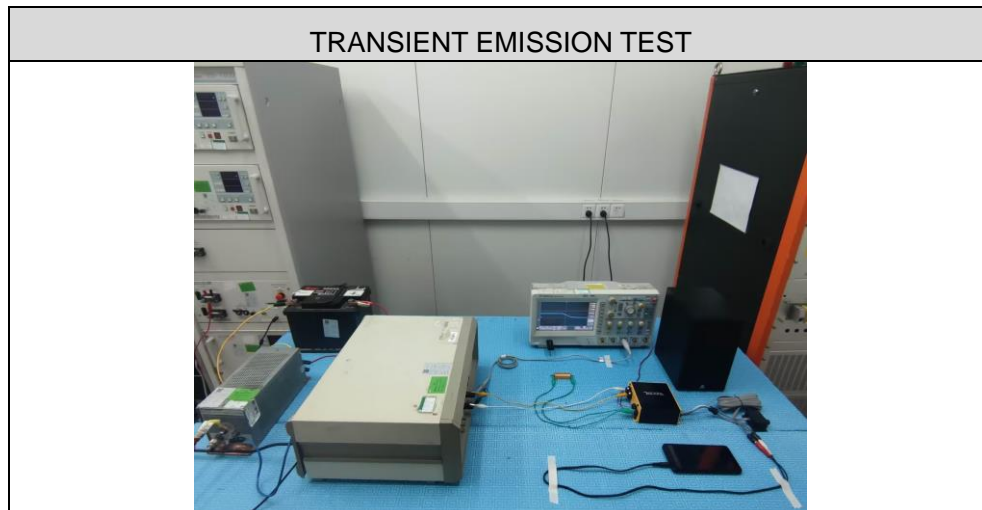
6.1 TEST LIMIT

| Suggested limits for the classification of 12V equipment | |
|--|---------|
| Positive | + 75 V |
| Negative | - 100 V |

6.2 DESCRIPTION OF THE TEST LOCATION

Test location: Shielded room

6.3 PHOTO DOCUMENTATION OF THE TEST SET-UP



6.4 TEST SPECIFICATION

The test was carried out in the following operation mode(s):

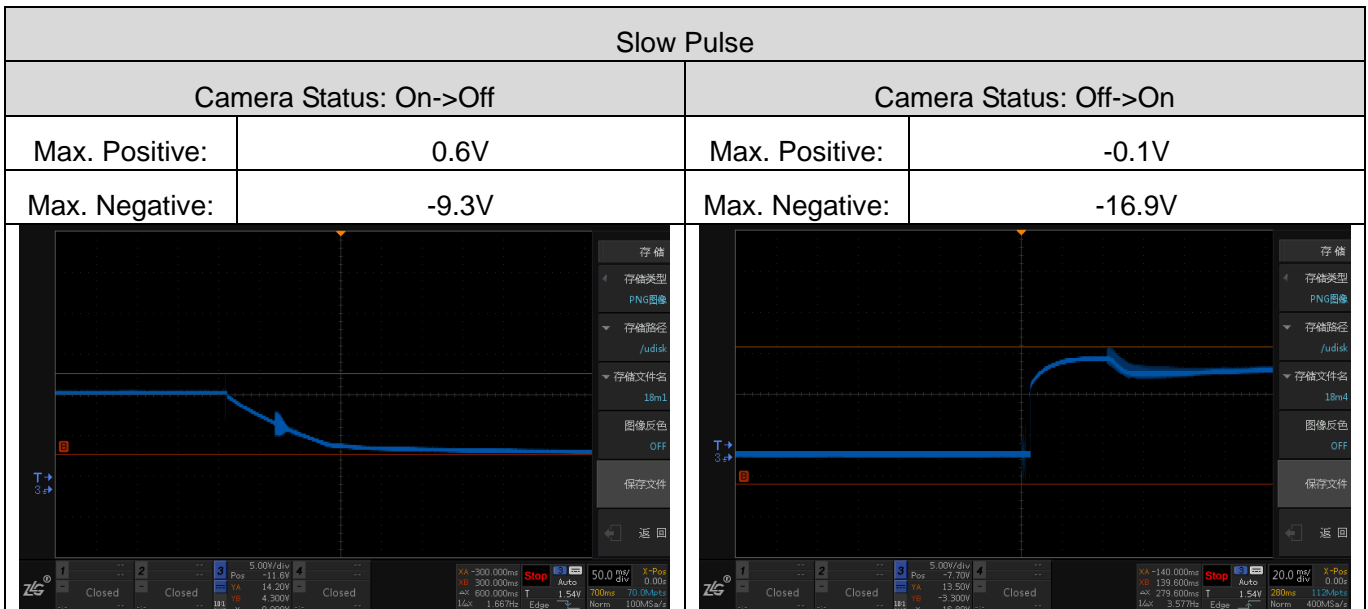
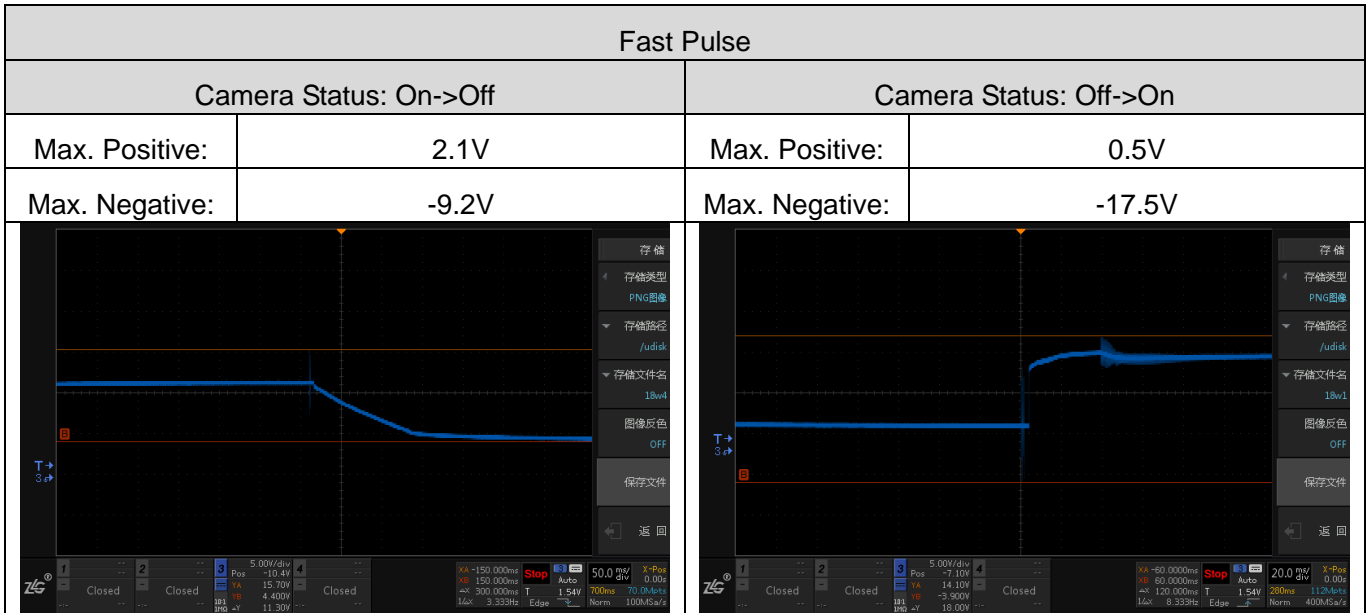
-Nominal 12V system for $DC13.5 \pm 0.5V$

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6.5 TEST RESULT

| | | | |
|---------------|---------------------|-----------------|-----------|
| Product Name: | Car Audio Amplifier | Sample Number: | 250311083 |
| Test Model: | RL680.1 | Supply Voltage: | DC 13.6V |
| Temperature: | 24.1℃ | Humidity: | 53.6 % |
| Worst Mode | Mode 1 | Test Result: | Pass |



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7. TRANSIENT IMMUNITY TEST

7.1 DESCRIPTION OF THE TEST LOCATION

Test location: Shielded room

7.2 TEST SPECIFICATION

| | | |
|-----------|--------------------|------------------------------|
| Pulse 1: | Test level: | -75V(DC 12V),-450V(DC 12V) |
| | Number of pulses: | 5000 |
| Pulse 2a: | Test level: | +37V(DC 12V),-450V(DC 12V) |
| | Number of pulses: | 5000 |
| Pulse 2b: | Test level: | +10V(DC 12V),+20V(DC 12V) |
| | Number of pulses: | 10 |
| Pulse 3a: | Test level: | -112V(DC 12V),-150V (DC 12V) |
| | Coupling duration: | 1 h |
| Pulse 3b: | Test level: | +75V(DC 12V),+150V(DC 12V) |
| | Coupling duration: | 1 h |
| Pulse 4: | Test level: | -6V(DC 12V),-12V(DC 12V) |
| | Number of pulses: | 1 |

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7.3 PHOTO DOCUMENTATION OF THE TEST SET-UP

TRANSIENT IMMUNITY TEST



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7.4 TEST RESULT

| | | | |
|---------------|---------------------|-----------------|-----------|
| Product Name: | Car Audio Amplifier | Sample Number: | 250311083 |
| Test Model: | RL680.1 | Supply Voltage: | DC 13.3V |
| Temperature: | 27.3 °C | Humidity: | 59.2 % |
| Test Mode | Mode 1 | Test Result: | Pass |

| Test Pulse | Test Voltage | Number of Pulses/ Duration | Required Status | Functional Status |
|------------|--------------|----------------------------|-----------------|-------------------|
| 1 (12V) | -75 V | 5000 | D | C ² |
| 2a (12V) | +37 V | 5000 | D | A ¹ |
| 2b (12V) | +10 V | 10 | D | C ² |
| 3a (12V) | -112 V | 1 h | D | A ¹ |
| 3b (12V) | +75 V | 1 h | D | A ¹ |
| 4 (12V) | -6 V | 1 | D | A ¹ |

Remark:

1. During test and after test, the EUT works normal.
2. During the test, the DUT sounds intermittently. After the test, the sample automatically returned to the functional state before the test

7.5 CLASSIFICATION OF FUNCTIONAL STATUS

| | |
|--------------------|--|
| Criteria A: | All functions of a device/system perform as designed during and after exposure to disturbance. |
| Criteria B: | All functions of a device/system perform as designed during exposure. However, one or more of them can go beyond specified tolerance. All functions return automatically to within normal limits after exposure is removed. Memory functions shall remain class A. |
| Criteria C: | One or more functions of a device/system do not perform as designed during exposure but return automatically to normal operation after exposure is removed. |
| Criteria D: | One or more functions of a device/system do not perform as designed during exposure and do not return to normal operation until exposure is removed and the device/system is reset by simple "operator/use" action. |
| Criteria E: | One or more functions of a device/system do not perform as designed during and after exposure and cannot be returned to proper operation without repairing or replacing the device/system. |

☒ PASS ☐ FAIL

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APPENDIX I: PHOTOGRAPHS OF TEST EUT

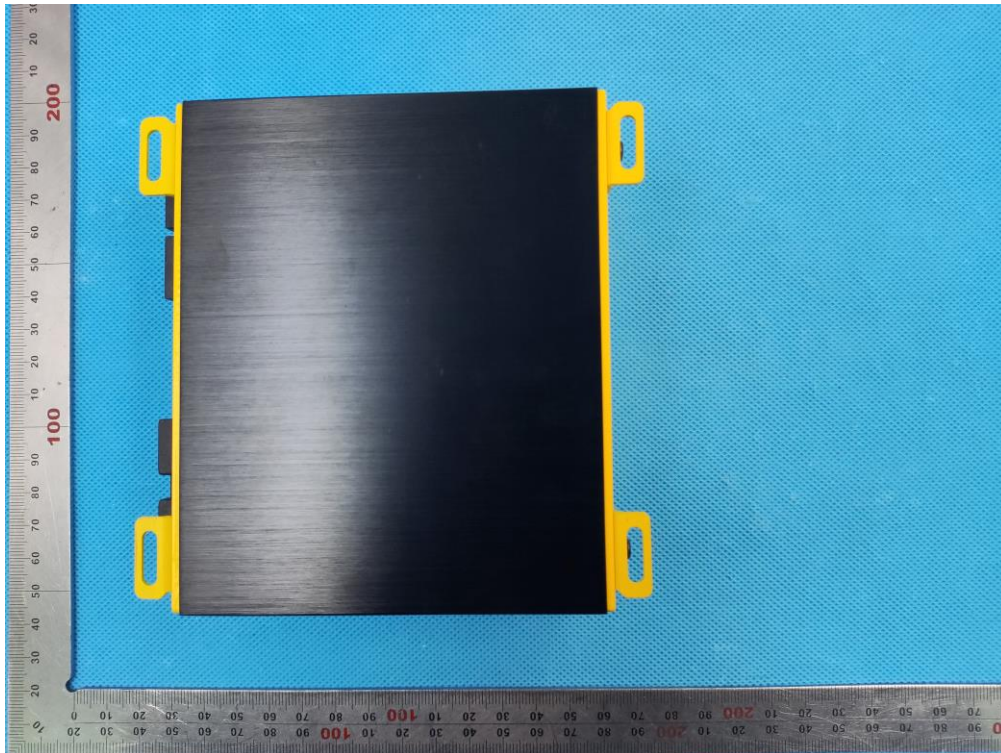


All view of EUT

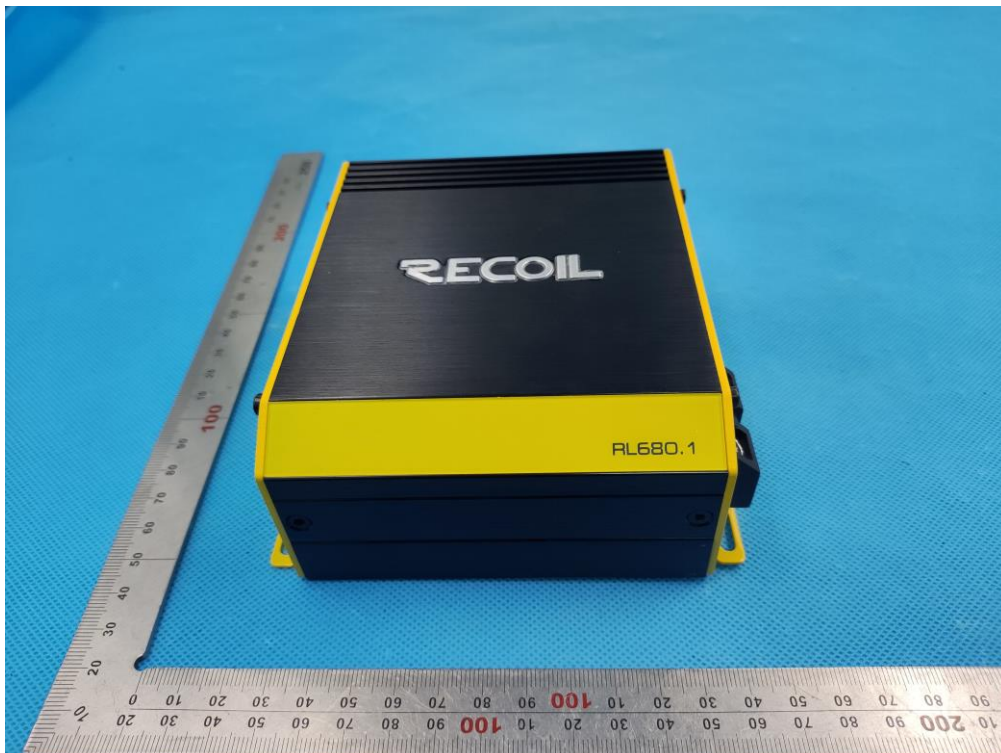


Top view of EUT

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Bottom view of EUT



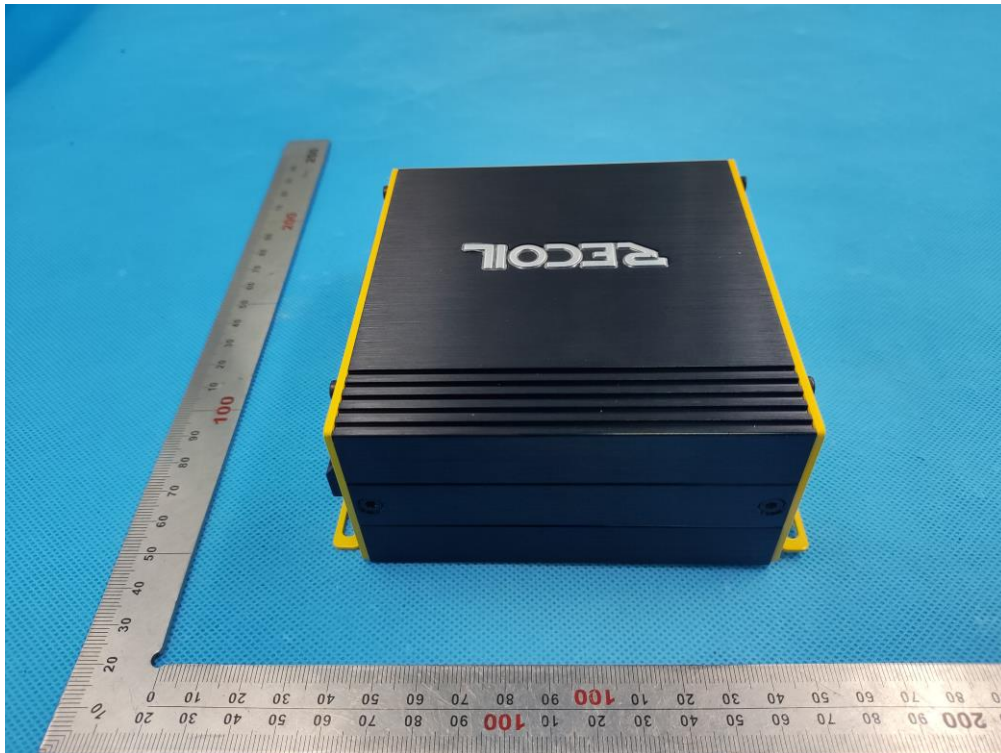
Front view of EUT

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Back view of EUT

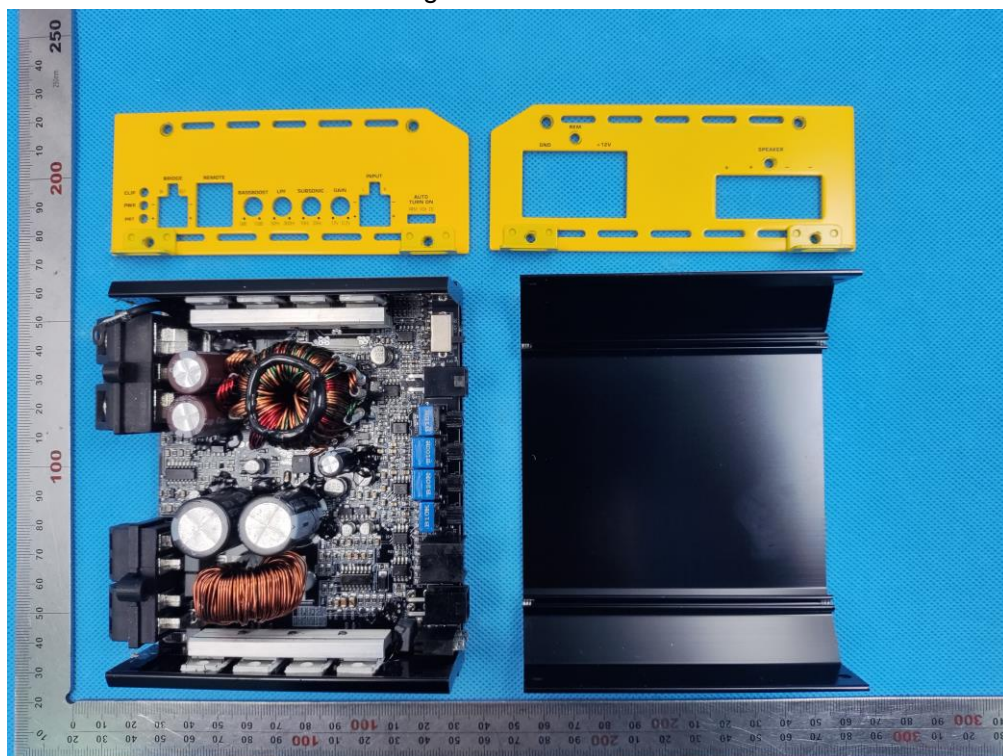


Left view of EUT

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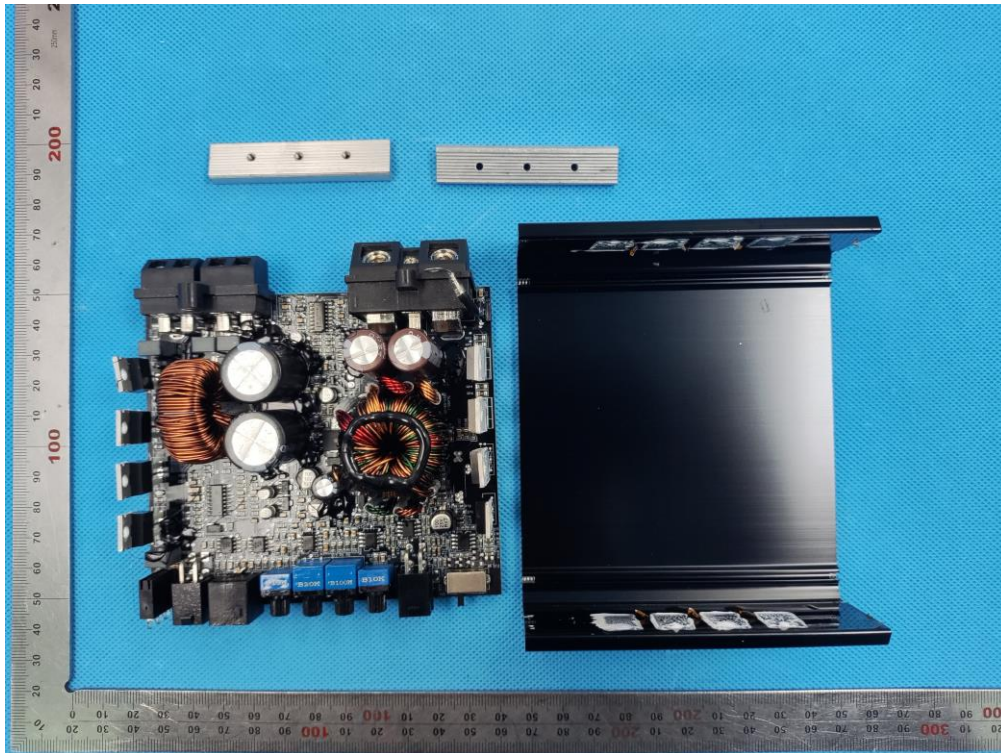


Right view of EUT

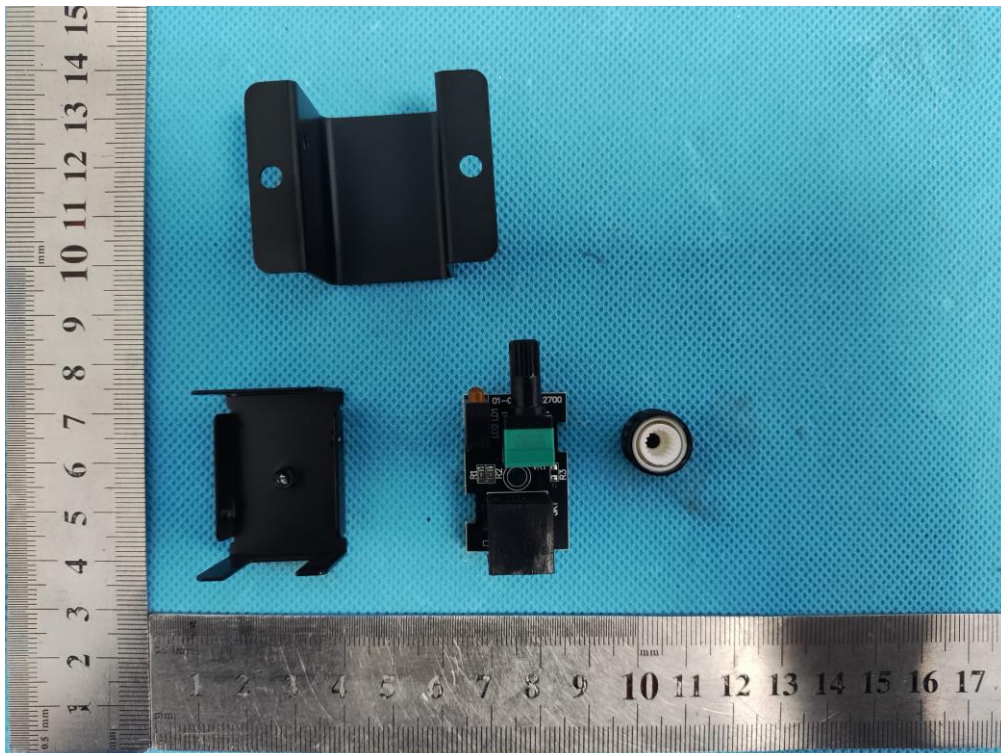


Open view-1 of EUT

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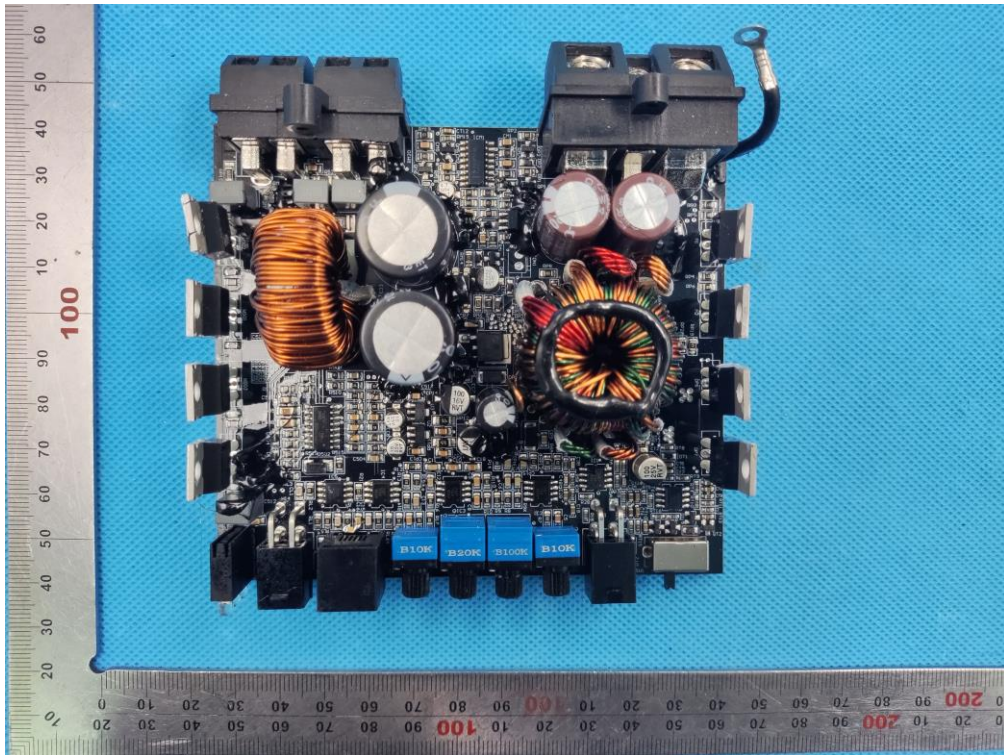


Open view-2 of EUT

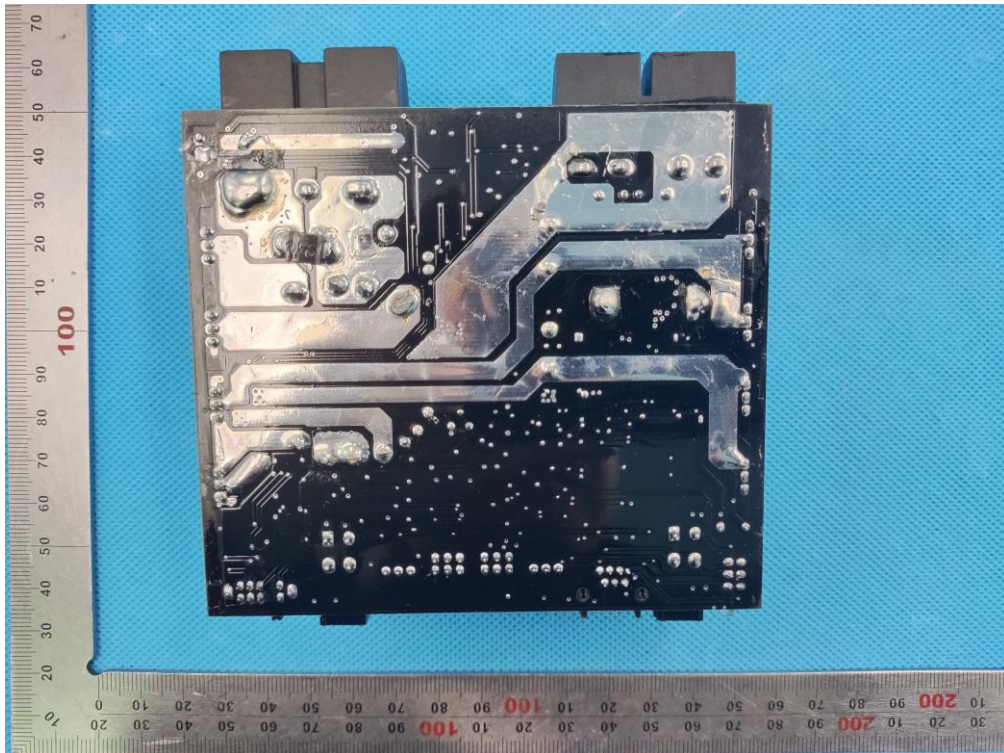


Open view-3 of EUT

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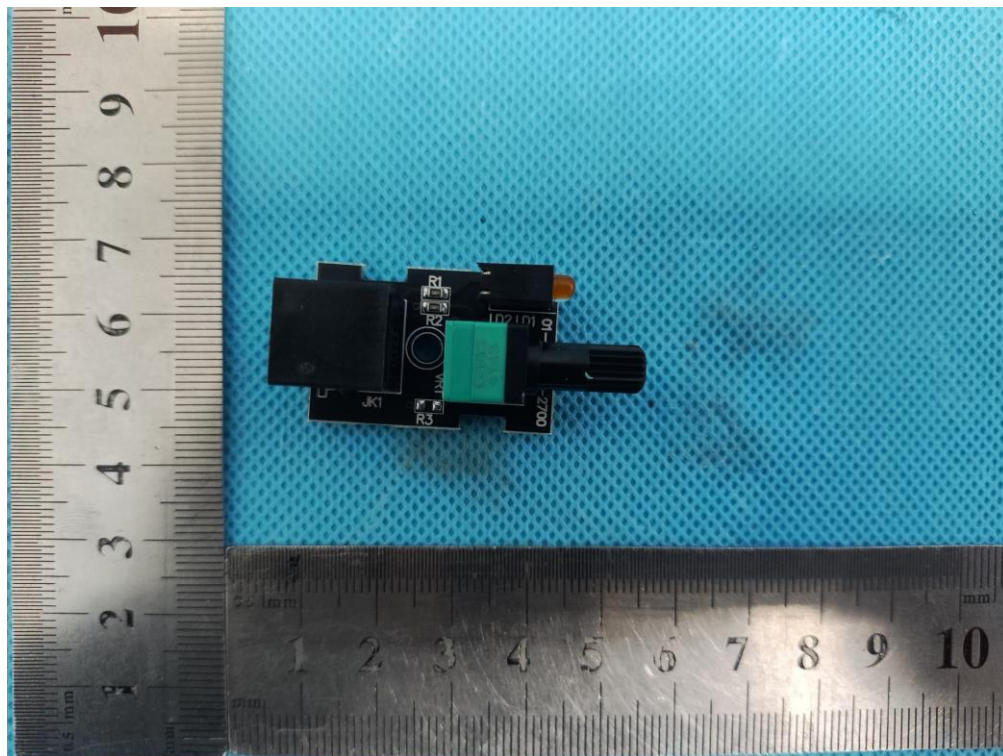


Internal view-1 of EUT

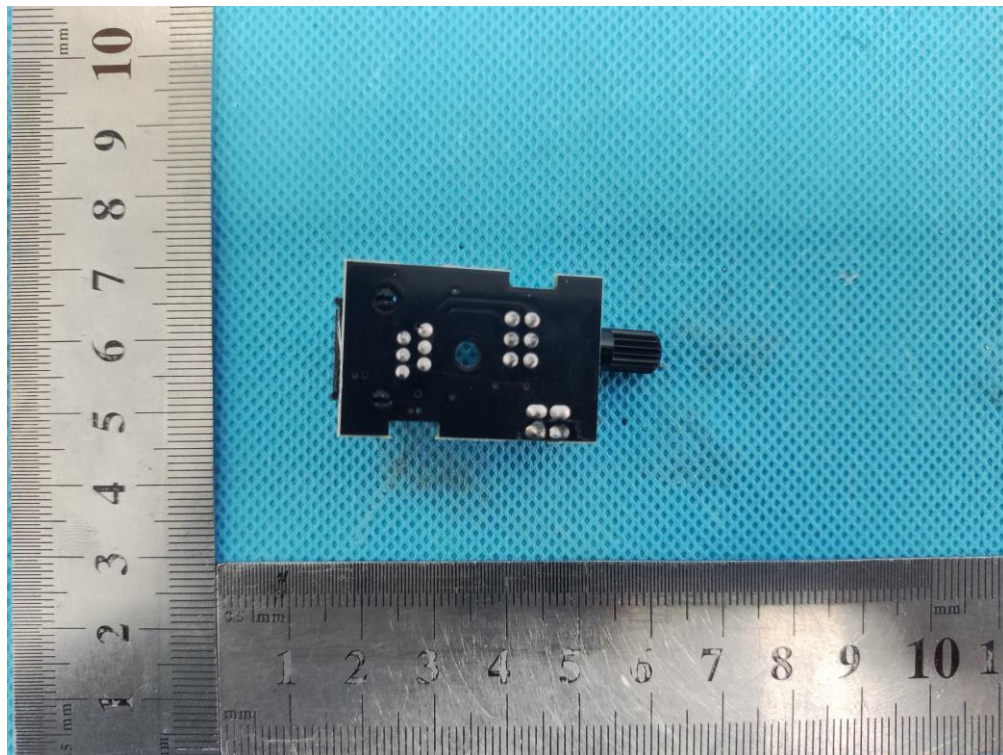


Internal view-2 of EUT

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Internal view-3 of EUT



Internal view-4 of EUT

----END OF REPORT----

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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