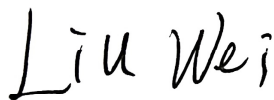


## EMC TEST REPORT

**Applicant** Positec Technology (China) Co., Ltd.  
**FCC ID** 2ASC3KR238  
**Product** Robotic Lawnmower  
**Brand** KRESS  
**Model** KR238  
**Report No.** EFTA26030082-IE-04-E1  
**Issue Date** May 12, 2026

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC Code CFR47 Part15B (2025)/ ANSI C63.4-2014**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.



*Prepared by: Liu Wei*



*Approved by: Xu Kai*

**Eurofins TA Technology (Shanghai) Co., Ltd.**

*Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China*

*TEL: +86-021-50791141/2/3*

*FAX: +86-021-50791141/2/3-8000*

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### Summary of measurement results

| Number                                                                                                                                                                                                       | Test Case          | Clause in FCC Rules             | Conclusion |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|------------|
| 1                                                                                                                                                                                                            | Radiated Emission  | FCC Part15.109, ANSI C63.4-2014 | PASS       |
| 2                                                                                                                                                                                                            | Conducted Emission | FCC Part15.107, ANSI C63.4-2014 | PASS       |
| Date of Testing: March 18, 2026 ~ March 21, 2026                                                                                                                                                             |                    |                                 |            |
| Date of Sample Received: March 9, 2026                                                                                                                                                                       |                    |                                 |            |
| Note:                                                                                                                                                                                                        |                    |                                 |            |
| 1. The conformity assessment in this report is based on a direct comparison of the test results with the limits by Eurofins TA Technology (Shanghai) Co., Ltd., without considering measurement uncertainty. |                    |                                 |            |

# 1 Test Laboratory

## 1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

## 1.2 Test Facility

### **FCC (Designation number: CN1179, Test Firm Registration Number: 446626)**

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

### **A2LA (Certificate Number: 3857.01)**

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

## 1.3 Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.  
Address: Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China  
City: Shanghai  
Post code: 201201  
Country: P. R. China  
Contact: Xu Kai  
Telephone: +86-021-50791141/2/3  
Fax: +86-021-50791141/2/3-8000  
Website: <https://www.eurofins.com/electrical-and-electronics>  
E-mail: [Kain.Xu@cpt.eurofinscn.com](mailto:Kain.Xu@cpt.eurofinscn.com)

## 2 General Description of Equipment Under Test

### 2.1 Applicant and Manufacturer Information

|                             |                                                                      |
|-----------------------------|----------------------------------------------------------------------|
| <b>Applicant</b>            | Positec Technology (China) Co., Ltd.                                 |
| <b>Applicant address</b>    | 18, Dongwang Road, Suzhou Industrial Park, Jiangsu 215123, P.R.China |
| <b>Manufacturer</b>         | Positec Technology (China) Co., Ltd.                                 |
| <b>Manufacturer address</b> | 18, Dongwang Road, Suzhou Industrial Park, Jiangsu 215123, P.R.China |

### 2.2 General Information

| EUT Description                                                                                                            |                                                                                                                   |               |               |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------|---------------|
| Device Type                                                                                                                | Movable Device                                                                                                    |               |               |
| Model                                                                                                                      | KR238                                                                                                             |               |               |
| Lab internal SN                                                                                                            | 260309-28-001                                                                                                     |               |               |
| HW Version                                                                                                                 | PLH100.4.10                                                                                                       |               |               |
| SW Version                                                                                                                 | 6.1.6+14                                                                                                          |               |               |
| Power Rating                                                                                                               | DC 60V                                                                                                            |               |               |
| Connecting I/O Port(s)                                                                                                     | Please refer to the User's Manual.                                                                                |               |               |
| Antenna Type                                                                                                               | Internal Antenna                                                                                                  |               |               |
| Frequency                                                                                                                  | Band                                                                                                              | Tx (MHz)      | Rx (MHz)      |
|                                                                                                                            | Bluetooth                                                                                                         | 2400 ~ 2483.5 | 2400 ~ 2483.5 |
|                                                                                                                            | Wi-Fi 2.4GHz                                                                                                      | 2400 ~ 2483.5 | 2400 ~ 2483.5 |
| EUT Accessory                                                                                                              |                                                                                                                   |               |               |
| Charger Station                                                                                                            | Manufacturer: Positec Technology (China) Co., Ltd.<br>Model: KA0086<br>Input: 120Vac 15A<br>Output: 60.0Vdc 25.0A |               |               |
| Battery                                                                                                                    | Manufacturer: Positec Technology (China) Co., Ltd.<br>Model: KA3310<br>DC 60V, 16.6Ah                             |               |               |
| Note:<br>1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant. |                                                                                                                   |               |               |

## 2.3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

### Test standards

**FCC Code CFR47 Part15B (2025)**

**ANSI C63.4-2014**

## 2.4 Test Mode

| Test Mode |                                                    |
|-----------|----------------------------------------------------|
| Mode 1    | AC Power Supply + Charger Station + EUT + Charging |
| Mode 2    | Battery Powered + EUT + Working                    |

| Test Type                                                                                                                  | Test Mode | Worst Mode |
|----------------------------------------------------------------------------------------------------------------------------|-----------|------------|
| Radiated Emission                                                                                                          | Mode 1, 2 | Mode 2     |
| Conducted Emission                                                                                                         | Mode 1    | Mode 1     |
| After technical evaluation or/and preliminary test, the test data of the worst-case condition was recorded in this report. |           |            |

### 3 Test Case Results

#### 3.1 Radiated Emission

##### Ambient Condition

| Temperature | Relative humidity |
|-------------|-------------------|
| 15°C ~ 35°C | 30% ~ 60%         |

##### Methods of Measurement

When the EUT is a tabletop system, a wooden turntable with a height of 0.1 meters is used which is placed on the ground plane, when the EUT is a floor standing equipment, it is placed on the ground plane which has a 15cm non-conductive covering to insulate the EUT from the ground plane.

The distance between EUT and receive antenna should be 10 meters below 1GHz; 3 meters for above 1GHz. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2014. Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier. During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum of radiated signal level.

The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing. During the test, the EUT is worked at maximum output power.

Set the spectrum analyzer in the following:

Below 1GHz:

RBW=100 kHz / VBW=300 kHz / Sweep=AUTO

Above 1GHz:

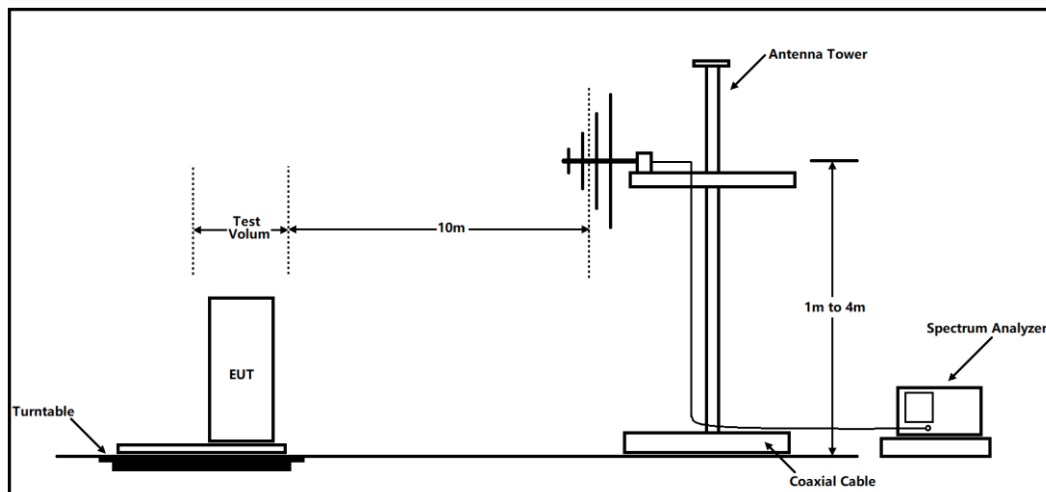
(a) PEAK Detector: RBW=1MHz / VBW=3MHz/ Sweep=AUTO

(b) AVERAGE Detector: RBW=1MHz / VBW=3MHz / Sweep=AUTO

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the worst case was recorded.

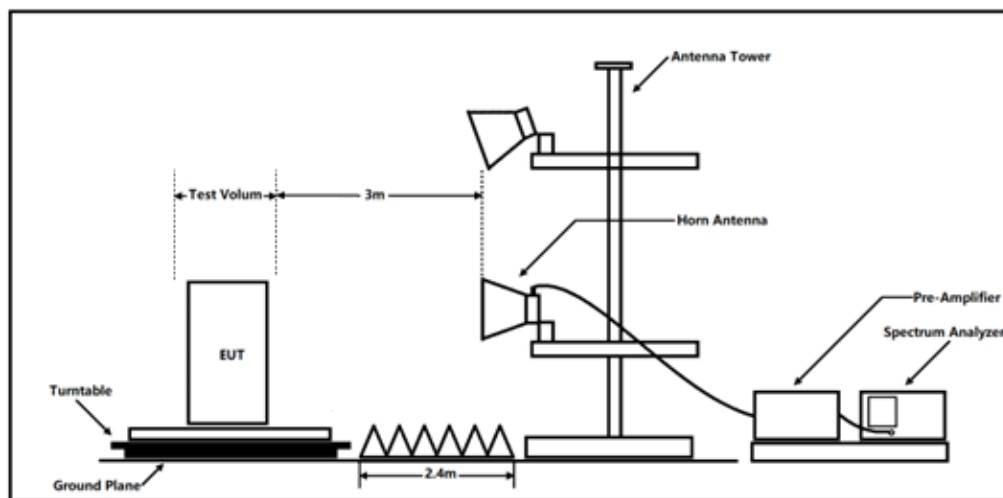
## Test Setup

### Below 1GHz



Note: Area side: 21m x 12m

### Above 1GHz



Note: Area side: 2.4mX3.6m

Antenna Tower meets ANSI C63.4 requirements for measurements above 1 GHz by keeping the antenna aimed at the EUT during the antenna's ascent/ descent along the antenna mast.

## Limits

### Class B

| Frequency (MHz)                                                                 | Field Strength (dB $\mu$ V/m) | Detector        |
|---------------------------------------------------------------------------------|-------------------------------|-----------------|
| 30 -88                                                                          | 30.0                          | Quasi-peak      |
| 88-216                                                                          | 33.5                          | Quasi-peak      |
| 216 – 960                                                                       | 36.0                          | Quasi-peak      |
| 960-1000                                                                        | 44.0                          | Quasi-peak      |
| 1000-5 <sup>th</sup> harmonic of the highest frequency or 40GHz, which is lower | 54<br>74                      | Average<br>Peak |

### Frequency range of radiated measurements

| Highest frequency generated or used in the device or on which the device operates or tunes (MHz) | Upper frequency of measurement range (MHz)                           |
|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Below 1.705                                                                                      | 30                                                                   |
| 1.705-108                                                                                        | 1000                                                                 |
| 108-500                                                                                          | 2000                                                                 |
| 500-1000                                                                                         | 5000                                                                 |
| Above 1000                                                                                       | 5th harmonic of the highest frequency or 40 GHz, whichever is lower. |

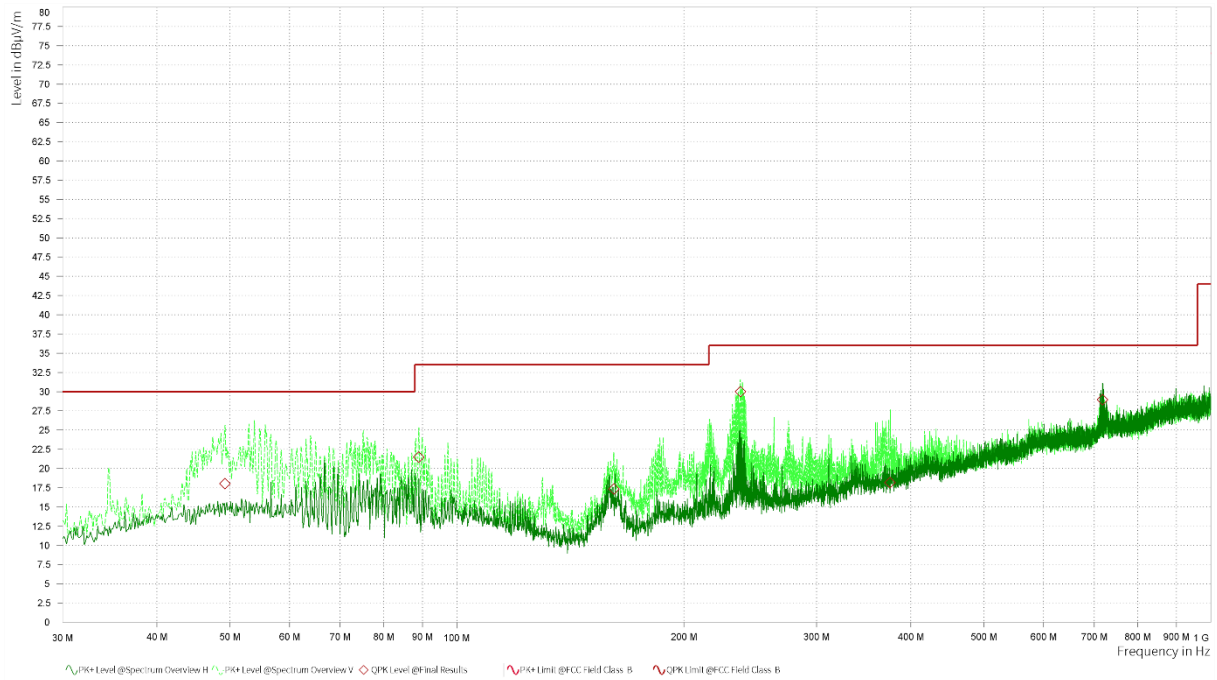
## Test Results

Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier. The Emissions in the frequency band 18GHz – 26.5GHz is more than 20dB below the limit are not reported.

The following graphs display the maximum values of horizontal and vertical by software.

### Mode 2

Spectrum Overview H/V

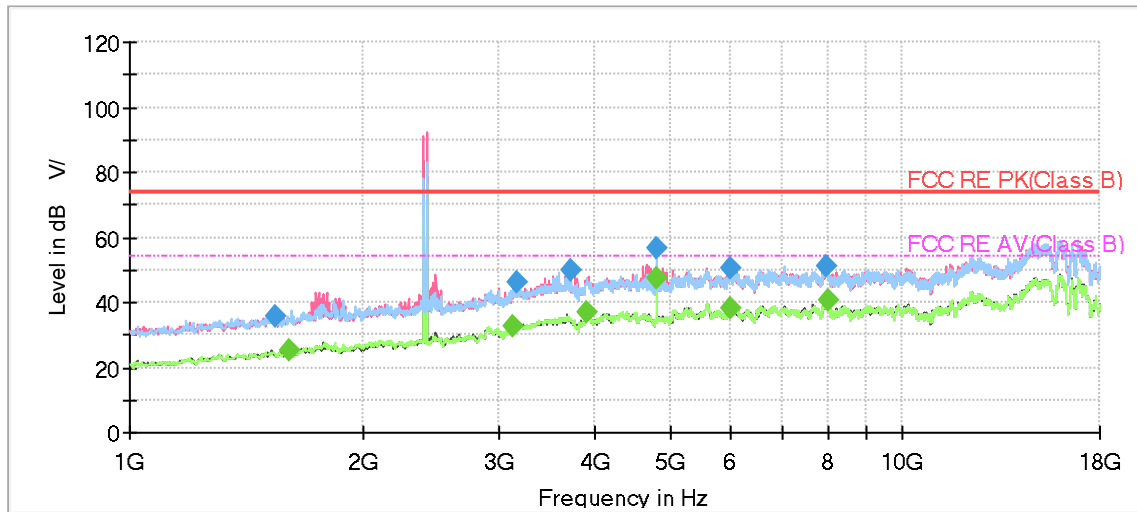


Radiated Emission from 30MHz to 1GHz

| Frequency [MHz] | QPK Level [dBμV/m] | QPK Limit [dBμV/m] | QPK Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] | Meas. BW [kHz] | Meas. Time [s] |
|-----------------|--------------------|--------------------|-----------------|-----------------|--------------|---------------|--------------------|----------------|----------------|
| 49.259          | 18.01              | 30.00              | 11.99           | -8.39           | V            | 318.9         | 1.00               | 120.000        | 1.000          |
| 89.028          | 21.46              | 33.50              | 12.04           | -11.90          | V            | 233.9         | 1.00               | 120.000        | 1.000          |
| 161.529         | 17.32              | 33.50              | 16.18           | -12.56          | V            | 346.3         | 2.00               | 120.000        | 1.000          |
| 237.694         | 29.98              | 36.00              | 6.02            | -8.73           | V            | 4.4           | 1.00               | 120.000        | 1.000          |
| 375.323         | 18.17              | 36.00              | 17.83           | -5.55           | V            | 70.2          | 1.00               | 120.000        | 1.000          |
| 718.473         | 28.96              | 36.00              | 7.04            | 0.04            | H            | 214.4         | 2.00               | 120.000        | 1.000          |

Remark: 1. Correction Factor = Antenna factor + Insertion loss(cable loss+amplifier gain)

2. Margin = Limit – Quasi-Peak



PK Level @Spectrum Overview H (blue line) PK Level @Spectrum Overview V (pink line) PK Level @Final Results (blue diamonds) PK Limit (red line)  
 AVG Level @Spectrum Overview H (green line) AVG Level @Spectrum Overview V (pink line) AVG Level @Final Results (green diamonds) AVG Limit (pink line)

Radiated Emission from 1GHz to 18GHz

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|--------------|
| 1541.875000     | 35.92            | ---              | 74.00          | 38.08       | 500.0           | 200.0       | V   | 168.0         | -11.6        |
| 1612.000000     | ---              | 25.30            | 54.00          | 28.70       | 500.0           | 100.0       | V   | 206.0         | -10.3        |
| 3135.625000     | ---              | 32.72            | 54.00          | 21.28       | 500.0           | 200.0       | V   | 218.0         | -1.0         |
| 3163.250000     | 46.07            | ---              | 74.00          | 27.93       | 500.0           | 100.0       | V   | 1.0           | -1.0         |
| 3717.875000     | 49.60            | ---              | 74.00          | 24.40       | 500.0           | 100.0       | V   | 51.0          | 0.9          |
| 3909.125000     | ---              | 37.15            | 54.00          | 16.85       | 500.0           | 100.0       | H   | 162.0         | 3.7          |
| 4803.750000     | 56.77            | ---              | 74.00          | 17.23       | 500.0           | 200.0       | H   | 2.0           | 2.2          |
| 4803.750000     | ---              | 47.25            | 54.00          | 6.75        | 500.0           | 100.0       | H   | 2.0           | 2.2          |
| 5993.750000     | 50.59            | ---              | 74.00          | 23.41       | 500.0           | 100.0       | H   | 0.0           | 6.2          |
| 6000.125000     | ---              | 38.05            | 54.00          | 15.95       | 500.0           | 200.0       | V   | 299.0         | 6.2          |
| 7972.125000     | 50.94            | ---              | 74.00          | 23.06       | 500.0           | 200.0       | H   | 319.0         | 9.9          |
| 7995.500000     | ---              | 40.40            | 54.00          | 13.60       | 500.0           | 100.0       | H   | 228.0         | 9.9          |

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit – MaxPeak / Average

## 3.2 Conducted Emission

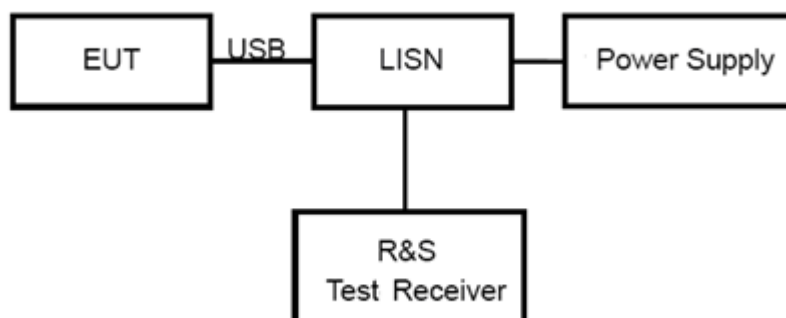
### Ambient Condition

| Temperature | Relative humidity |
|-------------|-------------------|
| 15°C ~ 35°C | 30% ~ 60%         |

### Methods of Measurement

The EUT is placed on a non-metallic table of 0.1m height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2014. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz. The measurement result should include both L line and N line.

### Test Setup



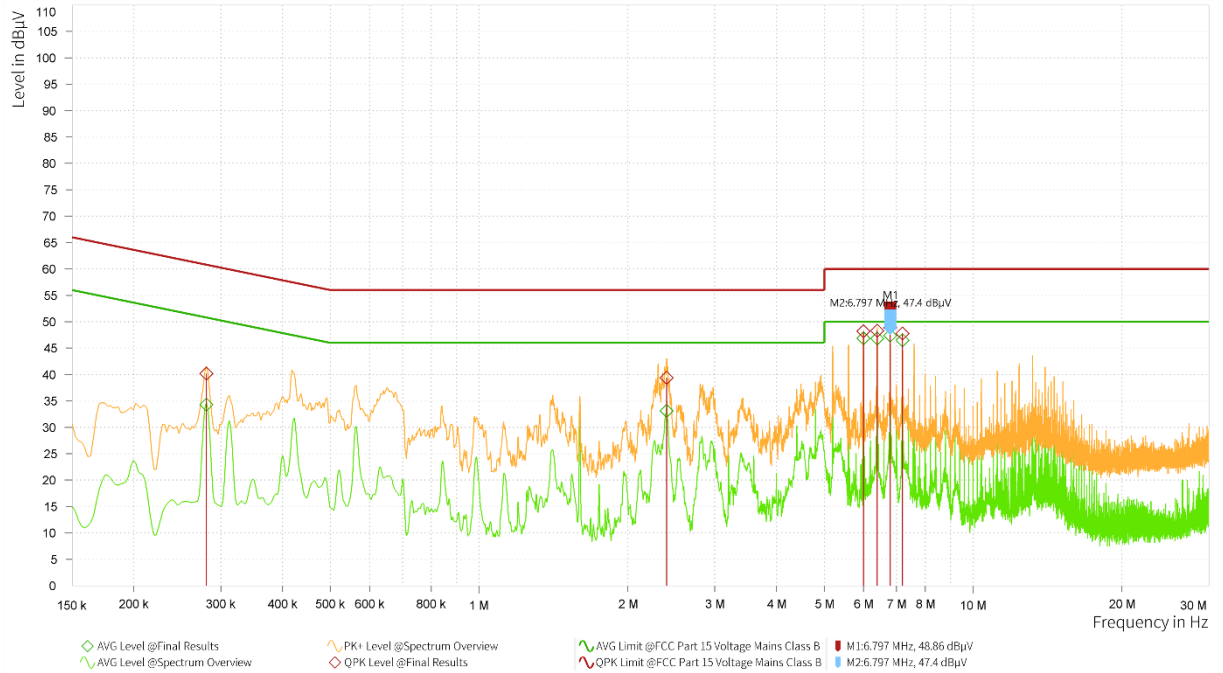
Note: Power Supply is AC Power source and it is used to change the voltage 120V/60Hz.

### Limits

| Frequency<br>(MHz)                                | Class A (dBμV) |         | Class B (dBμV) |           |
|---------------------------------------------------|----------------|---------|----------------|-----------|
|                                                   | Quasi-peak     | Average | Quasi-peak     | Average   |
| 0.15 - 0.5                                        | 79             | 66      | 66 to 56 *     | 56 to 46* |
| 0.5 - 5                                           | 73             | 60      | 56             | 46        |
| 5 - 30                                            | 73             | 60      | 60             | 50        |
| *: Decreases with the logarithm of the frequency. |                |         |                |           |

Note: The EUT should meet CLASS B limit.

## Test Results

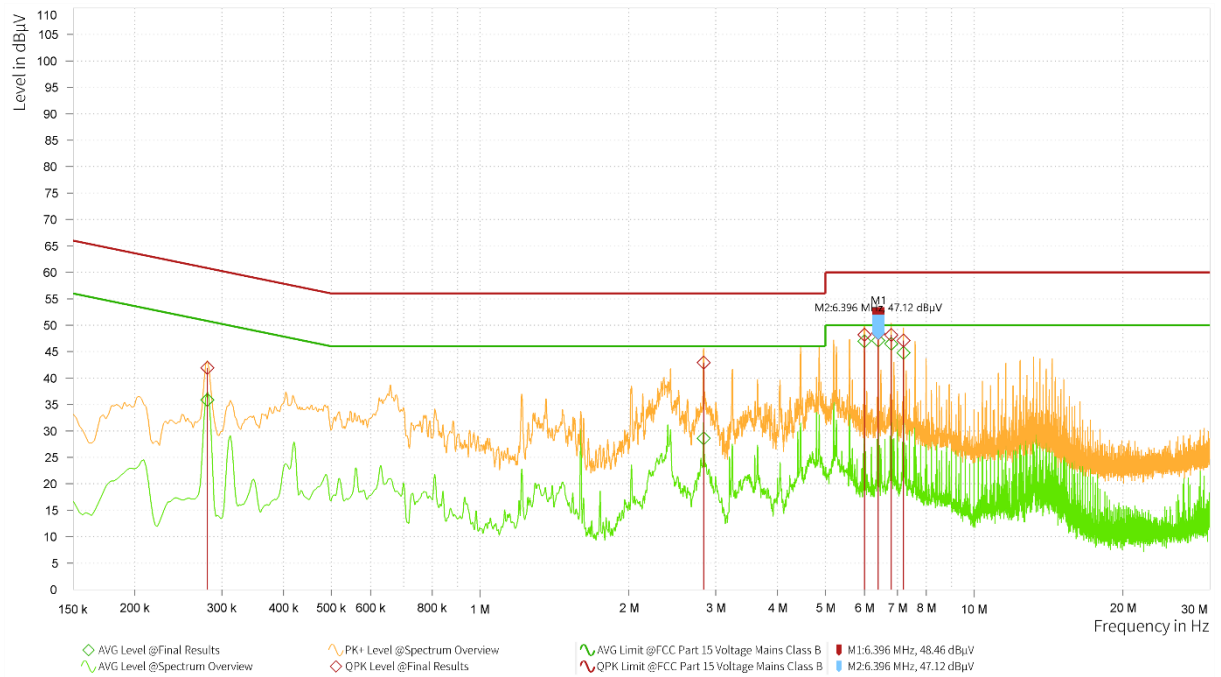


| Frequency [MHz] | QPK Level [dBμV] | QPK Limit [dBμV] | QPK Margin [dB] | AVG Level [dBμV] | AVG Limit [dBμV] | AVG Margin [dB] | Correction [dB] | Line | Meas. BW [kHz] | Meas. Time [s] |
|-----------------|------------------|------------------|-----------------|------------------|------------------|-----------------|-----------------|------|----------------|----------------|
| 0.281           | 40.18            | 60.80            | 20.62           | 34.29            | 50.80            | 16.51           | 20.95           | L1   | 9.000          | 1.000          |
| 2.398           | 39.35            | 56.00            | 16.65           | 33.11            | 46.00            | 12.89           | 19.56           | L1   | 9.000          | 1.000          |
| 5.996           | 48.19            | 60.00            | 11.81           | 46.86            | 50.00            | 3.14            | 19.40           | L1   | 9.000          | 1.000          |
| 6.396           | 48.28            | 60.00            | 11.72           | 46.80            | 50.00            | 3.20            | 19.40           | L1   | 9.000          | 1.000          |
| 6.797           | 48.86            | 60.00            | 11.14           | 47.40            | 50.00            | 2.60            | 19.41           | L1   | 9.000          | 1.000          |
| 7.197           | 47.78            | 60.00            | 12.22           | 46.47            | 50.00            | 3.53            | 19.41           | L1   | 9.000          | 1.000          |

Remark: Correct factor=cable loss + LISN factor

L line

Conducted Emission from 150 kHz to 30 MHz



| Frequency [MHz] | QPK Level [dBμV] | QPK Limit [dBμV] | QPK Margin [dB] | AVG Level [dBμV] | AVG Limit [dBμV] | AVG Margin [dB] | Correction [dB] | Line | Meas. BW [kHz] | Meas. Time [s] |
|-----------------|------------------|------------------|-----------------|------------------|------------------|-----------------|-----------------|------|----------------|----------------|
| 0.281           | 41.93            | 60.80            | 18.87           | 35.87            | 50.80            | 14.94           | 20.96           | N    | 9.000          | 1.000          |
| 2.834           | 42.93            | 56.00            | 13.07           | 28.58            | 46.00            | 17.42           | 19.51           | N    | 9.000          | 1.000          |
| 5.996           | 48.18            | 60.00            | 11.82           | 46.97            | 50.00            | 3.03            | 19.41           | N    | 9.000          | 1.000          |
| 6.396           | 48.46            | 60.00            | 11.54           | 47.12            | 50.00            | 2.88            | 19.41           | N    | 9.000          | 1.000          |
| 6.794           | 48.15            | 60.00            | 11.85           | 46.47            | 50.00            | 3.53            | 19.41           | N    | 9.000          | 1.000          |
| 7.195           | 47.08            | 60.00            | 12.92           | 44.76            | 50.00            | 5.24            | 19.41           | N    | 9.000          | 1.000          |

**Remark: Correct factor=cable loss + LISN factor**

N line

Conducted Emission from 150 kHz to 30 MHz

## 4 Uncertainty Measurement

| Case                             | Uncertainty | Factor k |
|----------------------------------|-------------|----------|
| Radiated Emission 30MHz – 200MHz | 3.39 dB     | 1.96     |
| Radiated Emission 200MHz – 1GHz  | 3.82 dB     | 1.96     |
| Radiated Emission 1GHz – 18GHz   | 6.51 dB     | 1.96     |
| Conducted Emission               | 2.57 dB     | 2        |

## 5 Main Test Instruments

| Name of Equipment        | Manufacturer | Type/Model | Serial Number/Version | Calibration Date | Expiration Time |
|--------------------------|--------------|------------|-----------------------|------------------|-----------------|
| Radiated Emission        |              |            |                       |                  |                 |
| EMI Test Receiver        | R&S          | ESR        | 102720                | 2025-05-06       | 2026-05-05      |
| TRILOG Broadband Antenna | SCHWARZBECK  | VULB 9163  | 01614                 | 2023-09-13       | 2026-09-12      |
| Software                 | R&S          | ELEKTRA    | 5.02.1                | /                | /               |
| Signal Analyzer          | R&S          | FSV40      | 101298                | 2025-05-07       | 2026-05-06      |
| Horn Antenna             | R&S          | HF 907     | 102723                | 2023-11-24       | 2026-11-23      |
| Amplifier                | R&S          | SCU18      | 10034                 | 2025-05-06       | 2026-05-05      |
| Software                 | R&S          | EMC32      | 9.26.01               | /                | /               |
| Conducted Emission       |              |            |                       |                  |                 |
| Artificial main network  | R&S          | ENV216     | 102191                | 2025-11-24       | 2026-11-23      |
| EMI Test Receiver        | R&S          | ESR        | 101667                | 2025-05-06       | 2026-05-05      |
| Software                 | R&S          | ELEKTRA    | 5.02.1                | /                | /               |

## 6 The EUT Appearance

Refer to *EUT Appearance*.

## 7 Test Setup Photos

Refer to *EMC Test Setup*.

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