

EMC TEST REPORT

Applicant Positec Technology (China) Co., Ltd.
FCC ID 2ASC3RBT202504
Product Robotic Lawnmower
Brand WORX
Model WR341; WR342
Report No. EFTA25100027-IE-04-E3
Issue Date December 29, 2025

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: November 18, 2025 ~ December 9, 2025			
Date of Sample Received: October 10, 2025			
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

2 General Description of Equipment Under Test

2.1 Applicant and Manufacturer Information

Applicant	Positec Technology (China) Co., Ltd.
Applicant address	18, Dongwang Road, Suzhou Industrial Park, Jiangsu 215123, P.R.China
Manufacturer	Positec Technology (China) Co., Ltd.
Manufacturer address	18, Dongwang Road, Suzhou Industrial Park, Jiangsu 215123, P.R.China

2.2 General Information

EUT Description			
Device Type	Movable Device		
Model	WR341; WR342		
Lab internal SN	251011-17-014 251011-17-017		
HW Version	PLS103.2.10		
SW Version	2.4.4+1		
Power Rating	DC 18.5V		
Connecting I/O Port(s)	Please refer to the User's Manual.		
Antenna Type	Internal Antenna		
Frequency	Band	Tx (MHz)	Rx (MHz)
	Bluetooth LE	2400 ~ 2483.5	2400 ~ 2483.5
	Wi-Fi 2.4GHz	2400 ~ 2483.5	2400 ~ 2483.5
	NearLink SLE	2400 ~ 2483.5	2400 ~ 2483.5
EUT Accessory			
Adapter 1	Manufacturer: Positec Technology (China) Co., Ltd. Model: WA3752 Input: 120V, 90W Output: 20V, 3A		
Battery 1	Manufacturer: Positec Technology (China) Co., Ltd. Model: WA3675 DC 20V, 5Ah		
Battery 2	Manufacturer: Positec Technology (China) Co., Ltd. Model: WA3674 DC 20V, 4Ah		

Note:

1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.

Model	Battery	Adapter
WR341	WA3674	WA3752
WR342	WA3675	WA3752

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	Adapter + 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

The EUT was 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 3 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:

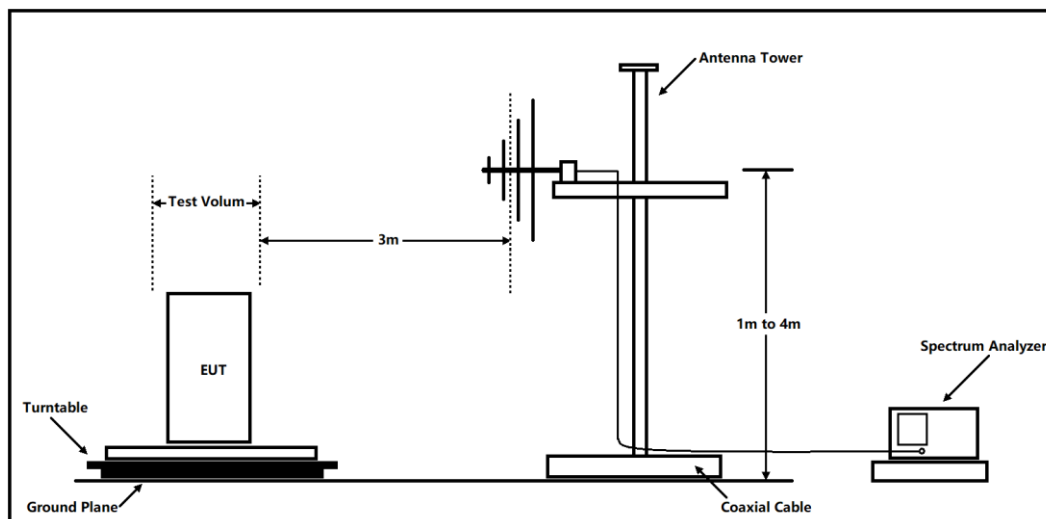
(a) PEAK Detector: RBW=1MHz / VBW=3MHz/ Sweep=AUTO

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

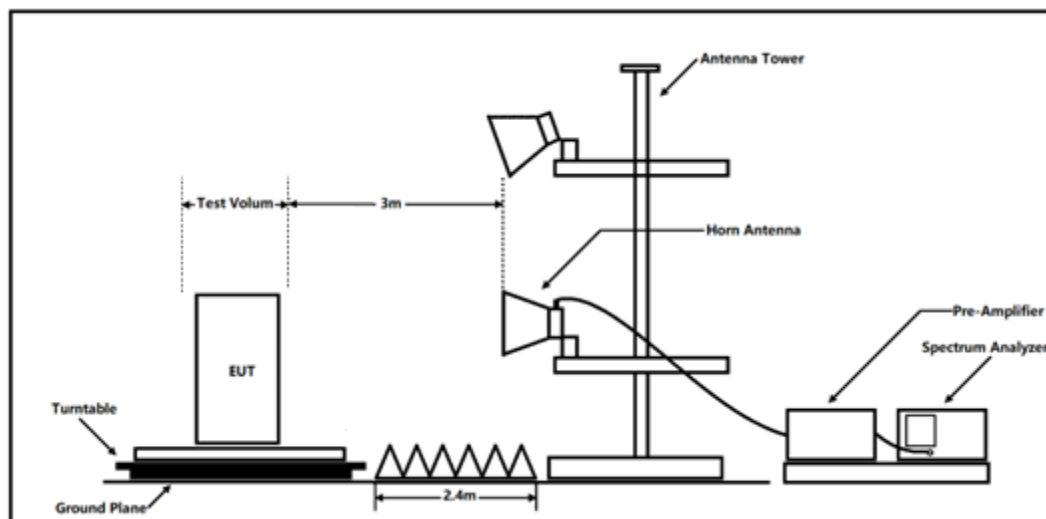
The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the worst case was recorded.

Test Setup

Below 1GHz



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 μ V/m)	Detector
30 -88	40.0	Quasi-peak
88-216	43.5	Quasi-peak
216 – 960	46.0	Quasi-peak
960-1000	54.0	Quasi-peak
1000-5 th harmonic of the highest frequency or 40GHz, which is lower	54 74	Average Peak

Frequency range of radiated measurements

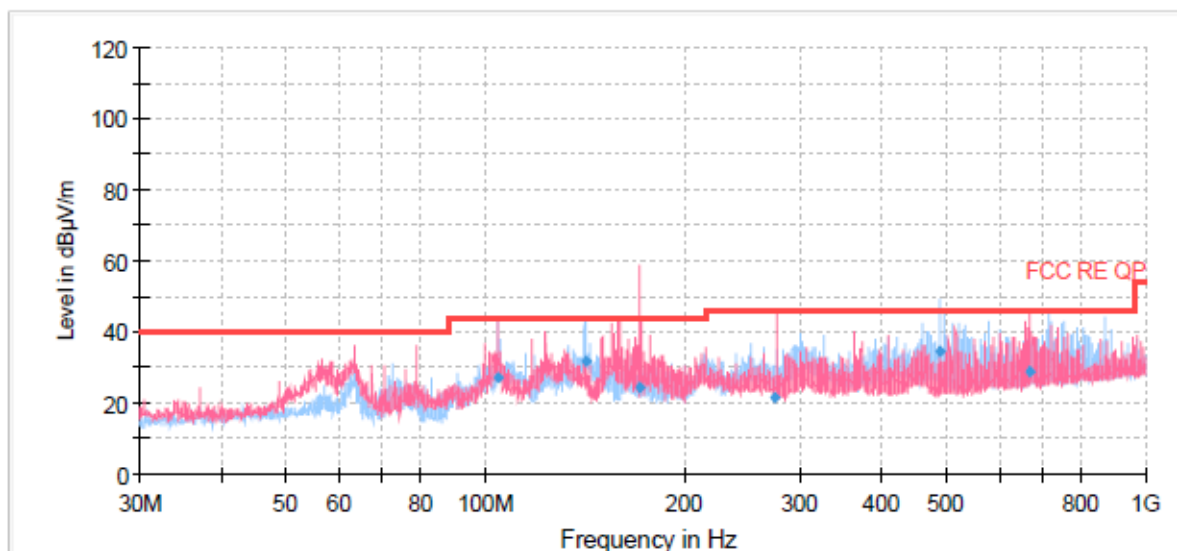
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

Test Results

Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier. =

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

WR341



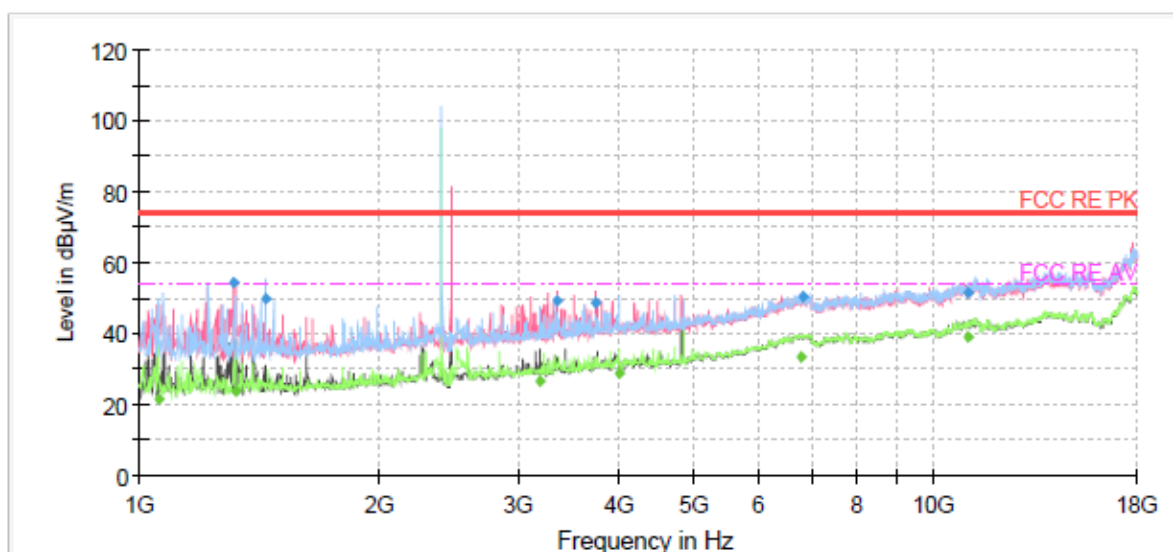
~ QP Level @Spectrum Overview H
 ~ QP Level @Spectrum Overview V
 ◆ QP Level @Final Results
 — QP Limit

Radiated Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
104.42	27.25	43.50	16.25	175.0	V	306.00	18
142.11	31.58	43.50	11.92	174.0	H	292.00	15
170.76	24.49	43.50	19.01	100.0	V	309.00	16
274.91	21.50	46.00	24.50	125.0	V	276.00	20
488.23	34.32	46.00	11.68	110.0	H	72.00	25
667.43	28.89	46.00	17.11	175.0	V	22.00	28

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

2. Margin = Limit – Quasi-Peak



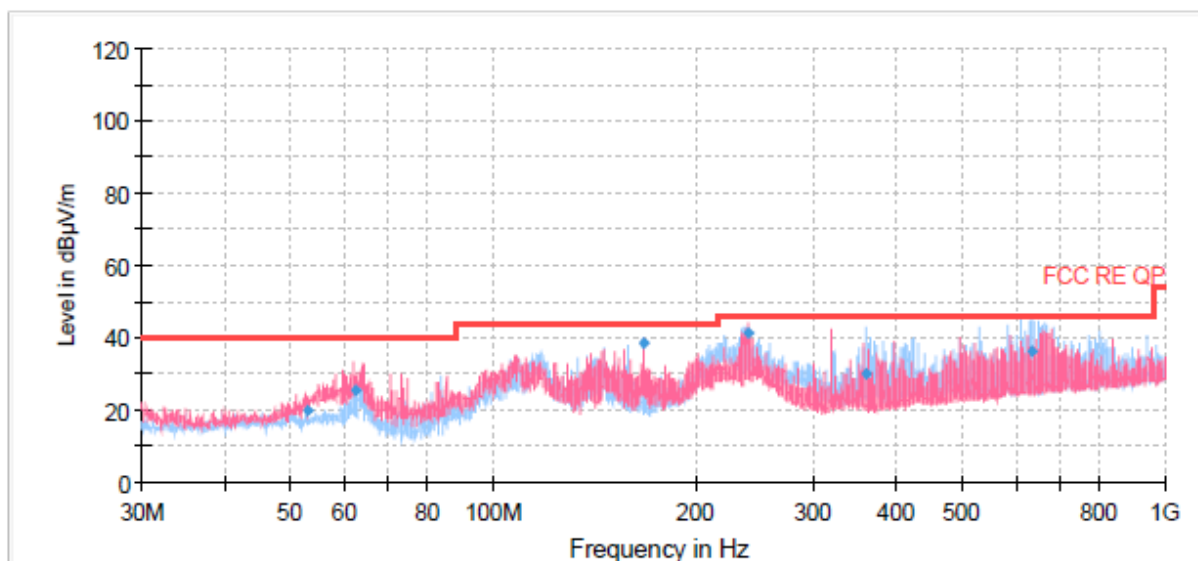
~ PK Level @Spectrum Overview H
 ~ PK Level @Spectrum Overview V
 ◆ PK Level @Final Results
 — PK Limit
~ AVG Level @Spectrum Overview H
 ~ AVG Level @Spectrum Overview V
 ◆ AVG Level @Final Results
 — AVG Limit

Radiated Emission from 1GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1055.25	---	21.59	54.00	32.41	101.0	H	0.00	-16
1316.63	54.32	---	74.00	19.68	100.0	V	122.00	-15
1318.75	---	23.57	54.00	30.43	119.0	V	144.00	-15
1442.00	49.92	---	74.00	24.08	125.0	H	218.00	-14
3190.88	---	26.78	54.00	27.22	103.0	V	333.00	-8
3348.13	49.17	---	74.00	24.83	100.0	V	353.00	-7
3749.75	48.59	---	74.00	25.42	113.0	V	345.00	-6
4015.38	---	28.79	54.00	25.21	114.0	H	0.00	-5
6794.88	---	33.58	54.00	20.42	102.0	V	317.00	1
6860.75	50.13	---	74.00	23.87	214.0	H	355.00	1
11004.50	51.74	---	74.00	22.26	194.0	H	292.00	7
11044.88	---	39.09	54.00	14.91	177.0	H	329.00	7

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

2. Margin = Limit – MaxPeak / Average

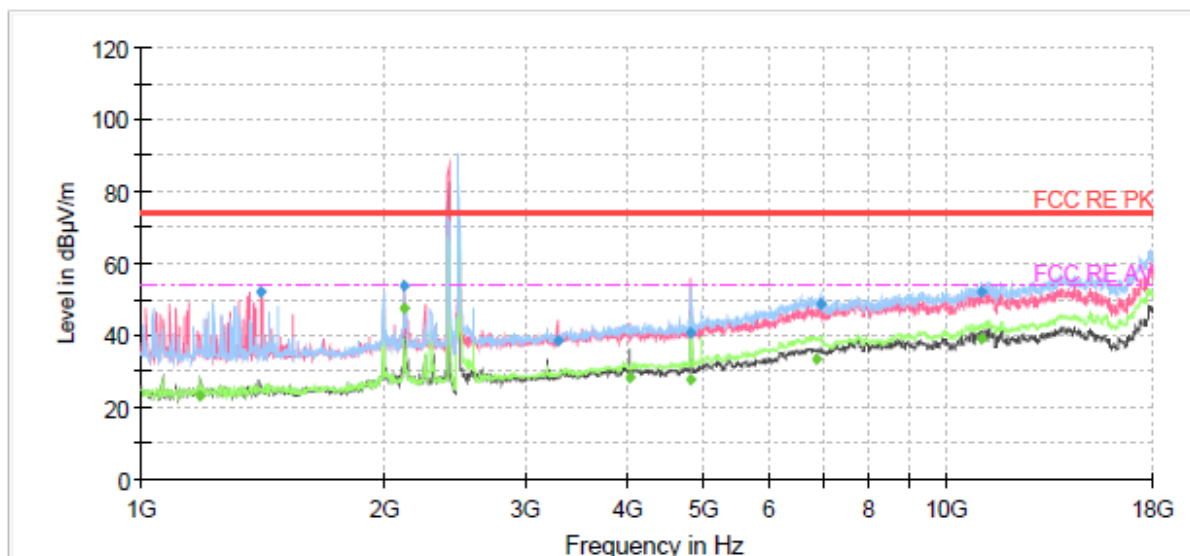


QP Level @Spectrum Overview H
 QP Level @Spectrum Overview V
 QP Level @Final Results
 QP Limit

Radiated Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
53.01	19.67	40.00	20.33	100.0	V	2.00	20
62.56	25.40	40.00	14.60	225.0	V	0.00	18
167.98	38.64	43.50	4.86	100.0	V	76.00	16
240.01	41.58	46.00	4.42	100.0	V	306.00	20
358.13	29.87	46.00	16.13	184.0	H	55.00	22
632.34	36.26	46.00	9.74	109.0	H	266.00	27

Remark: 1. Correction Factor = Antenna factor + Insertion loss(cable loss+amplifier gain)
2. Margin = Limit – Quasi-Peak



~ PK Level @Spectrum Overview H ~ PK Level @Spectrum Overview V ◆ PK Level @Final Results — PK Limit
~ AVG Level @Spectrum Overview H ~ AVG Level @Spectrum Overview V ◆ AVG Level @Final Results — AVG Limit

Radiated Emission from 1GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1184.88	---	23.24	54.00	30.76	120.0	V	120.00	-15
1410.13	52.25	---	74.00	21.75	221.0	V	187.00	-14
2122.00	53.73	---	74.00	20.27	104.0	H	0.00	-11
2124.13	---	47.78	54.00	6.22	100.0	V	141.00	-11
3280.13	38.54	---	74.00	35.46	222.0	V	336.00	-8
4043.00	---	28.04	54.00	25.96	103.0	V	16.00	-6
4814.38	40.61	---	74.00	33.39	103.0	V	23.00	-4
4816.50	---	27.74	54.00	26.26	104.0	V	22.00	-4
6875.63	---	33.23	54.00	20.77	102.0	H	196.00	1
6947.88	48.76	---	74.00	25.24	104.0	H	332.00	1
11030.00	---	39.34	54.00	14.66	104.0	H	333.00	7
11036.38	52.31	---	74.00	21.69	122.0	H	256.00	7

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
 2. Margin = Limit – MaxPeak / Average

3.2 Conducted Emission

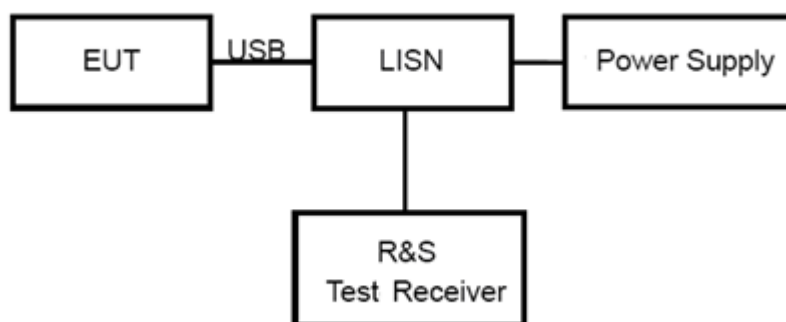
Ambient Condition

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

Methods of Measurement

The EUT was placed on the ground plane which has a 15cm non-conductive covering to insulate the EUT from the 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

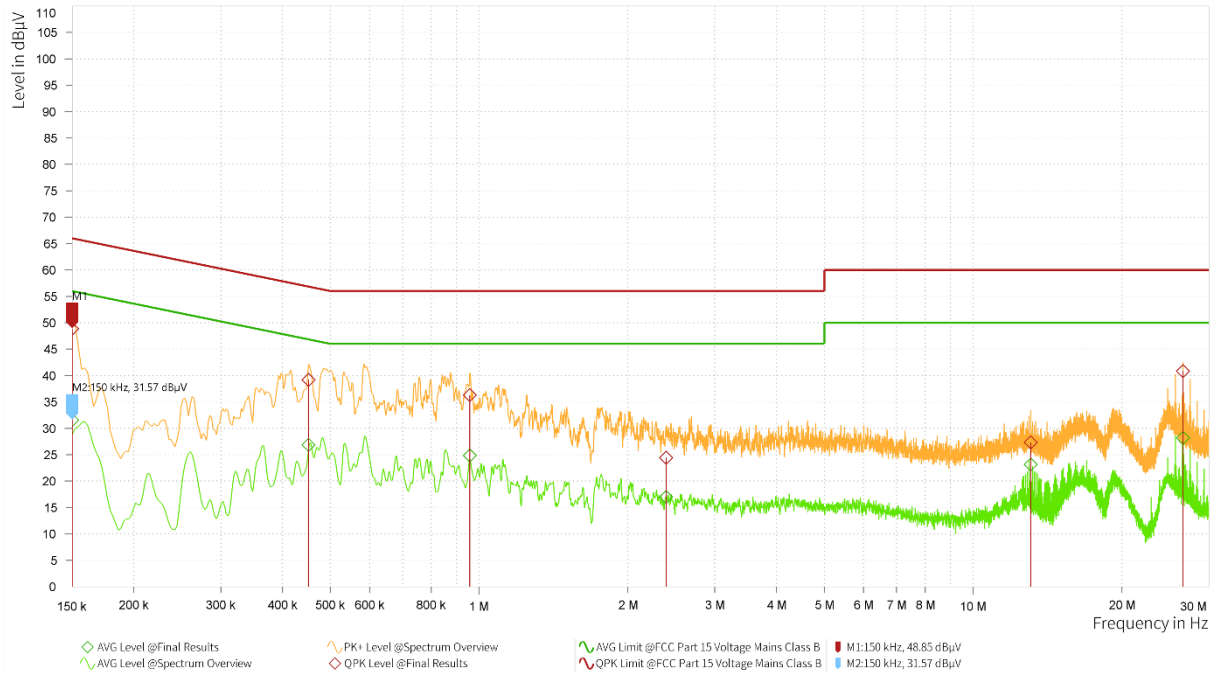
Frequency (MHz)	Class A (dBμV)		Class B (dBμV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 to 56 *	56 to 46*
0.5 - 5	73	60	56	46
5 - 30	73	60	60	50

*: Decreases with the logarithm of the frequency.

Note: The EUT should meet CLASS B limit.

Test Results

WR341

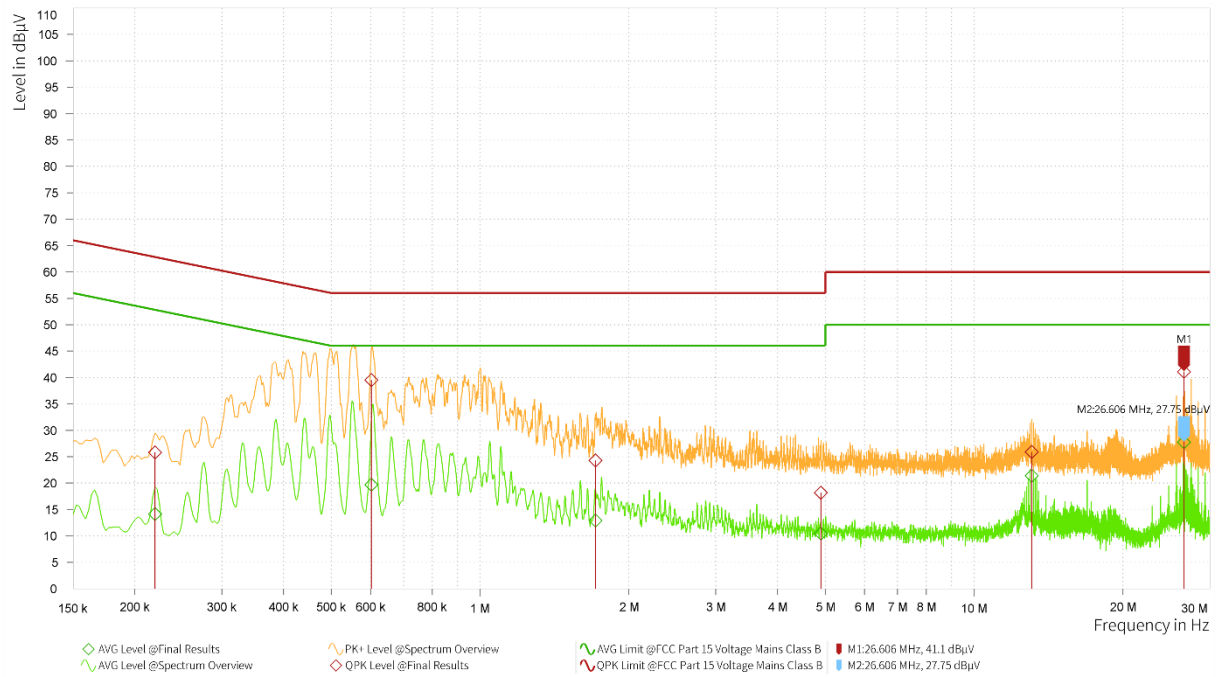


Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.150	48.85	66.00	17.15	31.57	56.00	24.43	20.90	L1	9.000	1.000
0.452	39.17	56.85	17.68	26.86	46.85	19.98	20.82	L1	9.000	1.000
0.958	36.30	56.00	19.70	24.84	46.00	21.16	20.19	L1	9.000	1.000
2.391	24.41	56.00	31.59	17.00	46.00	29.00	19.56	L1	9.000	1.000
13.083	27.31	60.00	32.69	23.15	50.00	26.85	19.45	L1	9.000	1.000
26.606	40.82	60.00	19.18	28.18	50.00	21.82	19.81	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]
0.220	25.79	62.83	37.04	14.12	52.83	38.71	21.01	N	9.000	1.000
0.602	39.52	56.00	16.48	19.68	46.00	26.32	20.68	N	9.000	1.000
1.712	24.28	56.00	31.72	12.91	46.00	33.09	19.76	N	9.000	1.000
4.895	18.16	56.00	37.84	10.46	46.00	35.54	19.41	N	9.000	1.000
13.088	25.92	60.00	34.08	21.41	50.00	28.59	19.48	N	9.000	1.000
26.606	41.10	60.00	18.90	27.75	50.00	22.25	19.88	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line

Conducted Emission from 150 kHz to 30 MHz

WR342

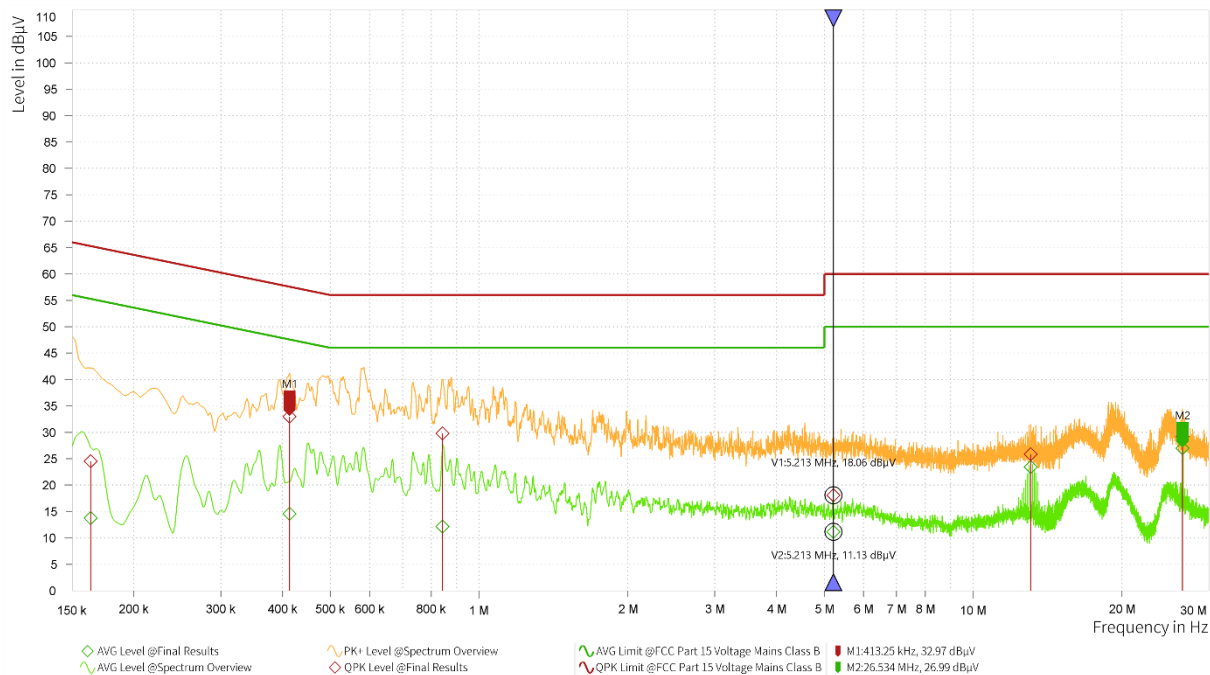


Frequency [MHz]	QPK Level [dBµV]	QPK Limit [dBµV]	QPK Margin [dB]	AVG Level [dBµV]	AVG Limit [dBµV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.159	28.65	65.52	36.87	18.36	55.52	37.15	20.90	L1	9.000	1.000
0.449	30.62	56.89	26.27	13.74	46.89	33.14	20.83	L1	9.000	1.000
0.958	23.91	56.00	32.09	10.79	46.00	35.21	20.19	L1	9.000	1.000
1.997	20.24	56.00	35.76	9.57	46.00	36.43	19.65	L1	9.000	1.000
13.085	26.10	60.00	33.90	23.48	50.00	26.52	19.45	L1	9.000	1.000
26.534	30.58	60.00	29.42	28.87	50.00	21.13	19.81	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]
0.164	24.51	65.28	40.77	13.73	55.28	41.55	20.90	N	9.000	1.000
0.413	32.97	57.58	24.61	14.58	47.58	33.01	20.87	N	9.000	1.000
0.843	29.78	56.00	26.22	12.12	46.00	33.88	20.30	N	9.000	1.000
5.213	18.06	60.00	41.94	11.13	50.00	38.87	19.41	N	9.000	1.000
13.085	25.84	60.00	34.16	23.45	50.00	26.55	19.48	N	9.000	1.000
26.534	29.21	60.00	30.79	26.99	50.00	23.01	19.88	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	4.35 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	ESCI3	100948	2025-05-07	2026-05-06
Horn Antenna	SCHWARZBECK	BBHA 9120D	430	2024-07-18	2027-07-17
Amplifier	R&S	SCU18F	101022	2025-05-06	2026-05-05
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	/	/
Conducted Emission					
Artificial main network	R&S	ENV216	102191	2024-12-02	2025-12-01
				2025-11-24	2026-11-23
EMI Test Receiver	R&S	ESR	101667	2025-05-06	2026-05-05
Software	R&S	EMC32	10.35.10	/	/

6 The EUT Appearance

Refer to *EUT Appearance*.

7 Test Setup Photos

Refer to *EMC Test Setup*.

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