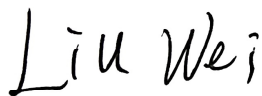


EMC TEST REPORT

Applicant Positec Technology (China) Co., Ltd.
FCC ID 2ASC3RBT202503
Product Robotic Lawnmower
Brand WORX
Model WR310; WR310.1; WR320; WR320.1
Report No. EFTA25060257-IE-04-E2V2
Issue Date December 1, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC Code CFR47 Part15B (2024)/ 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.



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Table of Contents

1	Test Laboratory	5
1.1	Notes of the Test Report.....	5
1.2	Test Facility	5
1.3	Testing Location.....	5
2	General Description of Equipment Under Test	6
2.1	Applicant and Manufacturer Information	6
2.2	General Information	6
2.3	Applied Standards	8
2.4	Test Mode	9
3	Test Case Results	10
3.1	Radiated Emission	10
3.2	Conducted Emission	17
4	Uncertainty Measurement.....	22
5	Main Test Instruments	23
6	The EUT Appearance.....	24
7	Test Setup Photos	25

Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	November 27, 2025
Rev.1	Update description.	November 28, 2025
Rev.2	Update description.	December 1, 2025
Note: This revised report (Report No.: EFTA25060257-IE-04-E2V2) supersedes and replaces the previously issued report (Report No.: EFTA25060257-IE-04-E2V1). Please discard or destroy the previously issued report and dispose of it accordingly.		

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 26, 2025 ~ November 27, 2025			
Date of Sample Received: June 16, 2025			
Note:			
1. All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

WR310; WR310.1; WR320; WR320.1 (Report No.: EFTA25060257-IE-04-E2V2) is a variant model of WR340 (Report No.: EFTA25060257-IE-04-E1).

The differences between variant and original is as below:

Description		FCC ID	IC	Manual adjustment knob	4G Module	GNSS	Battery Pack	Adapter	HW Version	SW Version
WR340	Configuration 1	2ASC3RBT202501	24992-RBT202501	N	Y	UM960E	5AH--WA3675	5A--WA3805	PLH100.1.12	3.44B54
WR310	Configuration 2	2ASC3RBT202503	24992-RBT202503	Y	N	UM960E or LG290P	4AH--WA3674	3A--WA3752	PLB100.1.11	V3.40
WR310.1	Configuration 2	2ASC3RBT202503	24992-RBT202503	N			4AH--WA3674	3A--WA3752	PLB100.1.11	V3.40
WR320	Configuration 2	2ASC3RBT202503	24992-RBT202503	N			5AH--WA3675	3A--WA3752	PLB100.1.11	V3.40
WR320.1	Configuration 2	2ASC3RBT202503	24992-RBT202503	N			5AH--WA3675	3A--WA3752	PLB100.1.11	V3.40
Note: The WR320.1 will come standard with this edge-cut accessory (cut to zero).										
The WR320 will not come standard with this edge-cut accessory (cut to zero).										

The detailed product change description please refers to the *Difference Declaration Letter*.

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
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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	WR310; WR310.1; WR320; WR320.1		
Lab internal SN	WR310: 250616-35-03 WR320: 250616-35-04		
HW Version	PLB100.1.11		
SW Version	V3.40		
Power Rating	DC 18.5V		
Connecting I/O Port(s)	Please refer to the User's Manual.		
Antenna Type	PCB Antenna		
Frequency	Band	Tx (MHz)	Rx (MHz)
	Bluetooth LE	2400 ~ 2483.5	2400 ~ 2483.5
	NearLink SLE	2400 ~ 2483.5	2400 ~ 2483.5
	Wi-Fi 2.4GHz	2400 ~ 2483.5	2400 ~ 2483.5
EUT Accessory			
Adapter	Manufacturer: Positec Technology (China) Co., Ltd. Model: WA3752; WA3752.* Input: 120V, 90W Output: 20V, 3A		
Battery 1	Manufacturer: Positec Technology (China) Co., Ltd. Model: WA3674 DC 20V, 4Ah		
Battery 2	Manufacturer: Positec Technology (China) Co., Ltd. Model: WA3675 DC 20V, 5Ah		

Note:

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 (2024)

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. 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:

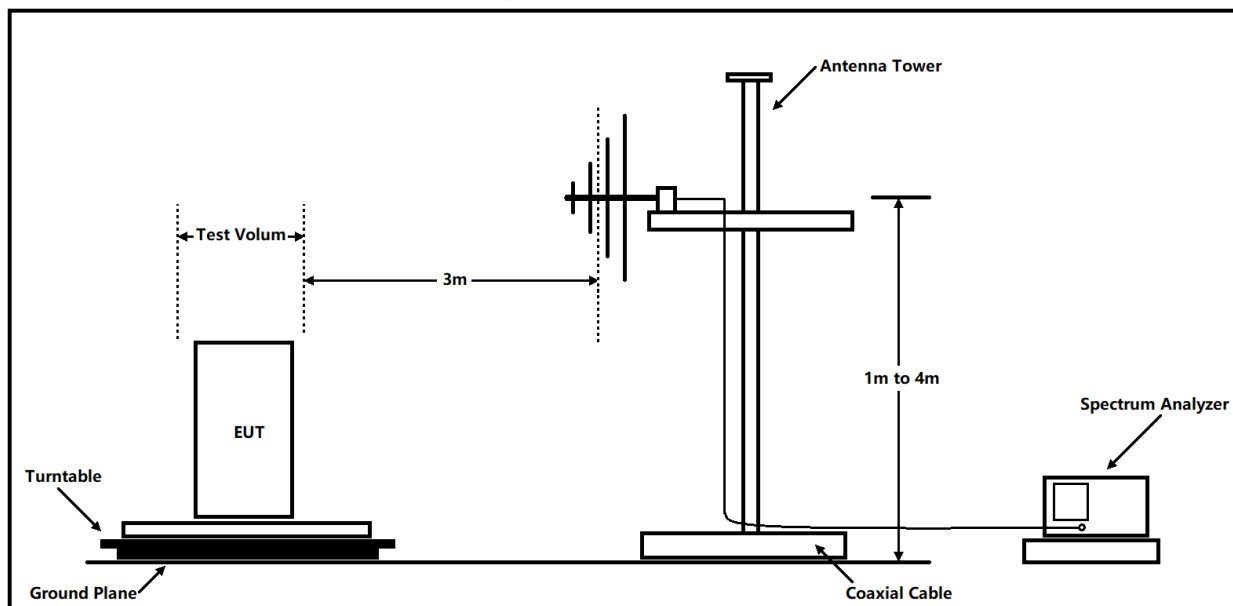
(a) PEAK Detector: RBW=1MHz / VBW=3MHz/ Sweep=AUTO

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

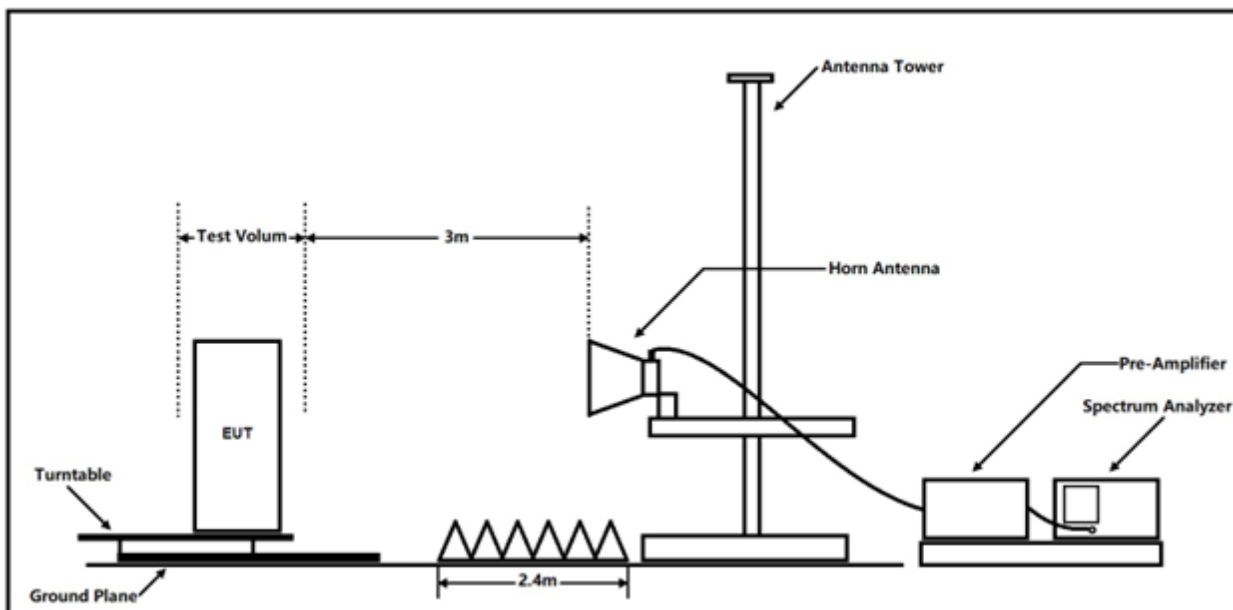
The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the worst case was recorded.

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

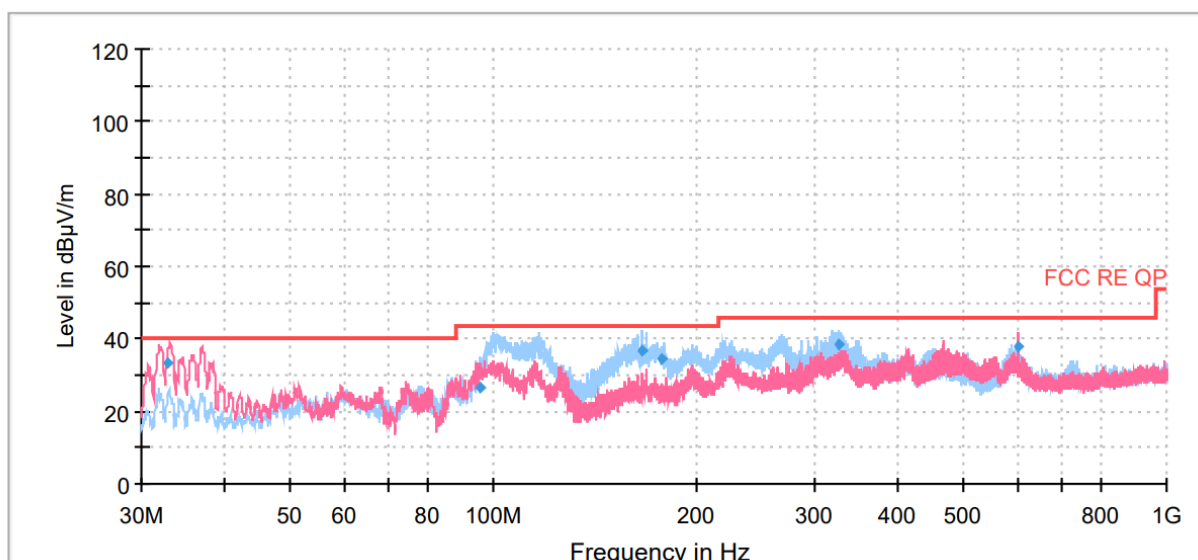
Frequency range of radiated measurements

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.

WR320



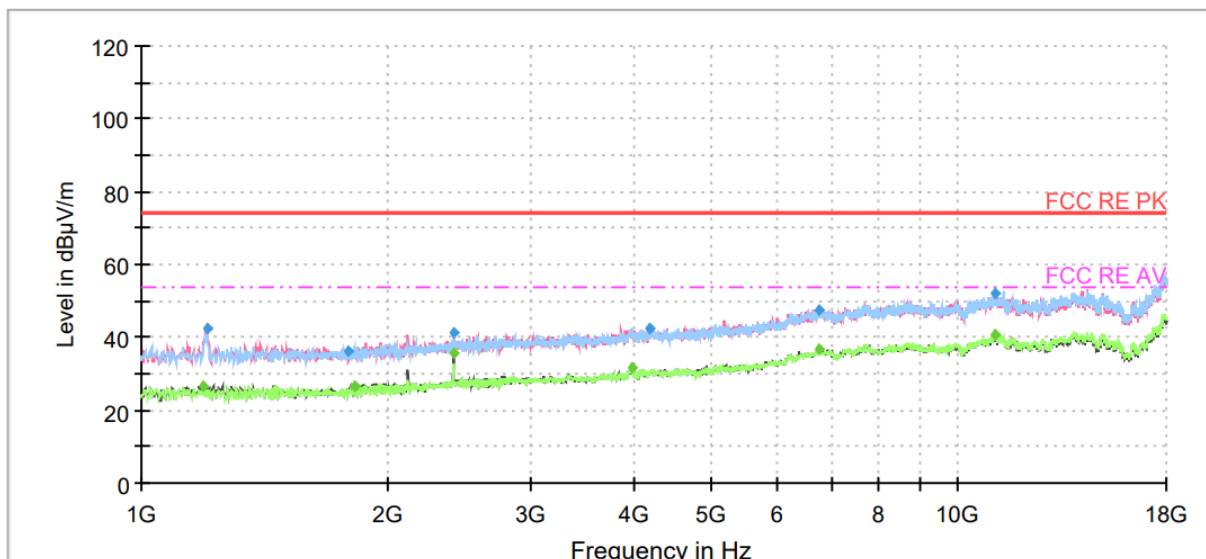
Radiated Emission from 30MHz to 1GHz

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.79	33.45	40.00	6.55	1000.00	101.0	V	0.00	17
95.30	26.82	43.50	16.68	1000.00	175.0	H	246.00	18
165.99	36.64	43.50	6.86	1000.00	125.0	H	0.00	16
178.43	34.64	43.50	8.86	1000.00	175.0	H	0.00	16
325.98	38.58	46.00	7.42	1000.00	100.0	H	34.00	22
600.01	37.82	46.00	8.18	1000.00	175.0	V	11.00	27

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

2. Margin = Limit – Quasi-Peak



Radiated Emission from 1GHz to 18GHz

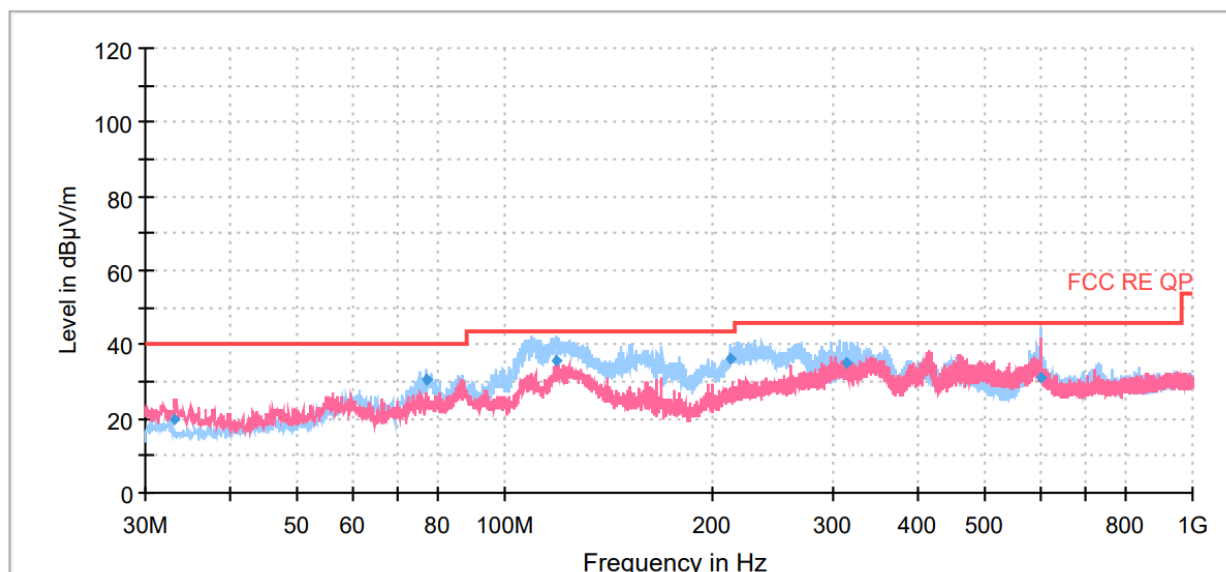
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1191.25	---	26.81	54.00	27.19	500.00	200.0	V	267.00	-15
1206.13	42.27	---	74.00	31.73	500.00	100.0	V	0.00	-15
1790.50	36.19	---	74.00	37.81	500.00	100.0	V	101.00	-13
1822.38	---	26.67	54.00	27.33	500.00	100.0	V	0.00	-13
2408.88	41.57	---	74.00	32.43	500.00	100.0	V	8.00	-10
2408.88	---	35.51	54.00	18.49	500.00	100.0	V	8.00	-10
3983.50	---	31.59	54.00	22.41	500.00	200.0	V	192.00	-4
4189.63	42.31	---	74.00	31.69	500.00	200.0	V	328.00	-5
6741.75	---	36.52	54.00	17.48	500.00	200.0	H	122.00	1
6771.50	47.43	---	74.00	26.57	500.00	200.0	H	186.00	1
11095.88	52.25	---	74.00	21.75	500.00	100.0	H	275.00	7
11098.00	---	40.60	54.00	13.40	500.00	200.0	V	335.00	7

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

2. Margin = Limit – MaxPeak / Average

WR310



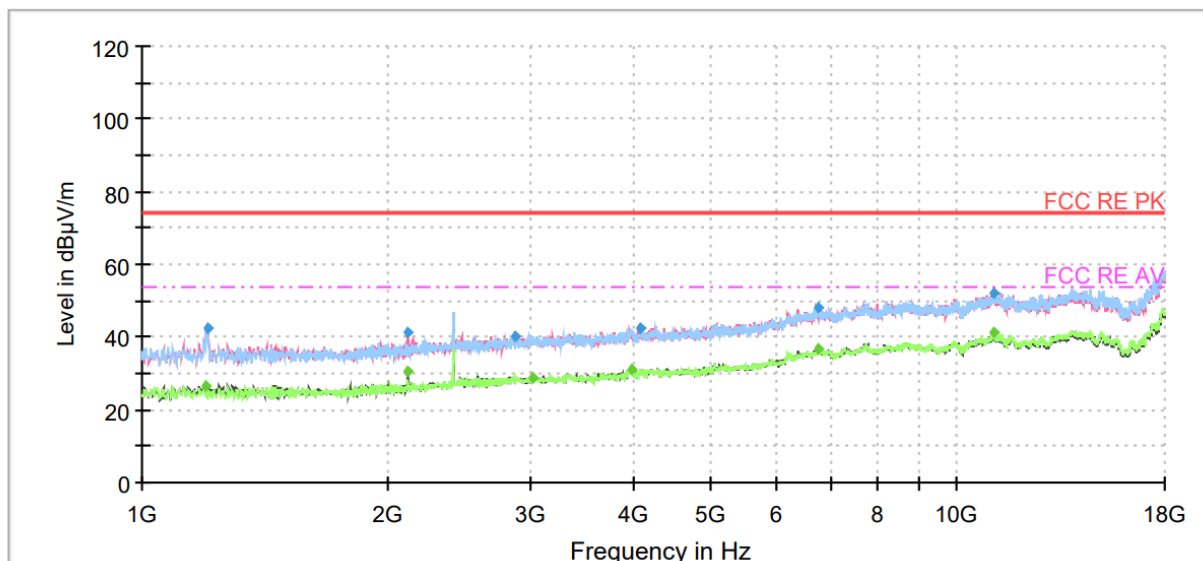
Radiated Emission from 30MHz to 1GHz

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
33.00	19.68	40.00	20.32	1000.00	100.0	V	284.00	17
77.19	30.39	40.00	9.61	1000.00	224.0	H	51.00	15
118.93	35.65	43.50	7.85	1000.00	225.0	H	2.00	17
213.38	36.35	43.50	7.15	1000.00	125.0	H	98.00	18
313.82	35.24	46.00	10.76	1000.00	100.0	H	138.00	21
599.97	31.00	46.00	15.00	1000.00	125.0	H	86.00	27

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

2. Margin = Limit – Quasi-Peak



Radiated Emission from 1GHz to 18GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1193.38	---	26.73	54.00	27.27	500.00	124.0	V	178.00	-15
1201.88	42.69	---	74.00	31.31	500.00	100.0	V	188.00	-15
2124.13	---	30.73	54.00	23.27	500.00	127.0	V	309.00	-11
2124.13	41.17	---	74.00	32.83	500.00	100.0	V	309.00	-11
2878.50	40.39	---	74.00	33.61	500.00	201.0	V	344.00	-8
3012.38	---	28.96	54.00	25.04	500.00	100.0	V	46.00	-8
3983.50	---	31.37	54.00	22.63	500.00	222.0	H	67.00	-4
4096.13	42.61	---	74.00	31.39	500.00	100.0	H	259.00	-5
6739.63	48.27	---	74.00	25.73	500.00	135.0	H	182.00	1
6769.38	---	36.59	54.00	17.41	500.00	200.0	H	151.00	1
11095.88	---	41.29	54.00	12.71	500.00	175.0	H	317.00	7
11100.13	52.27	---	74.00	21.73	500.00	285.0	H	104.00	7

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

2. Margin = Limit – MaxPeak / Average

3.2 Conducted Emission

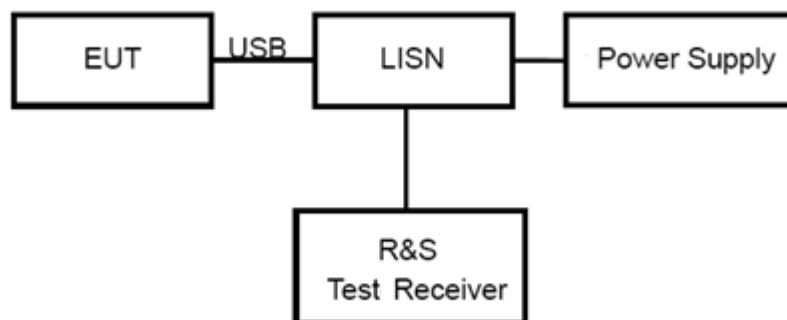
Ambient Condition

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

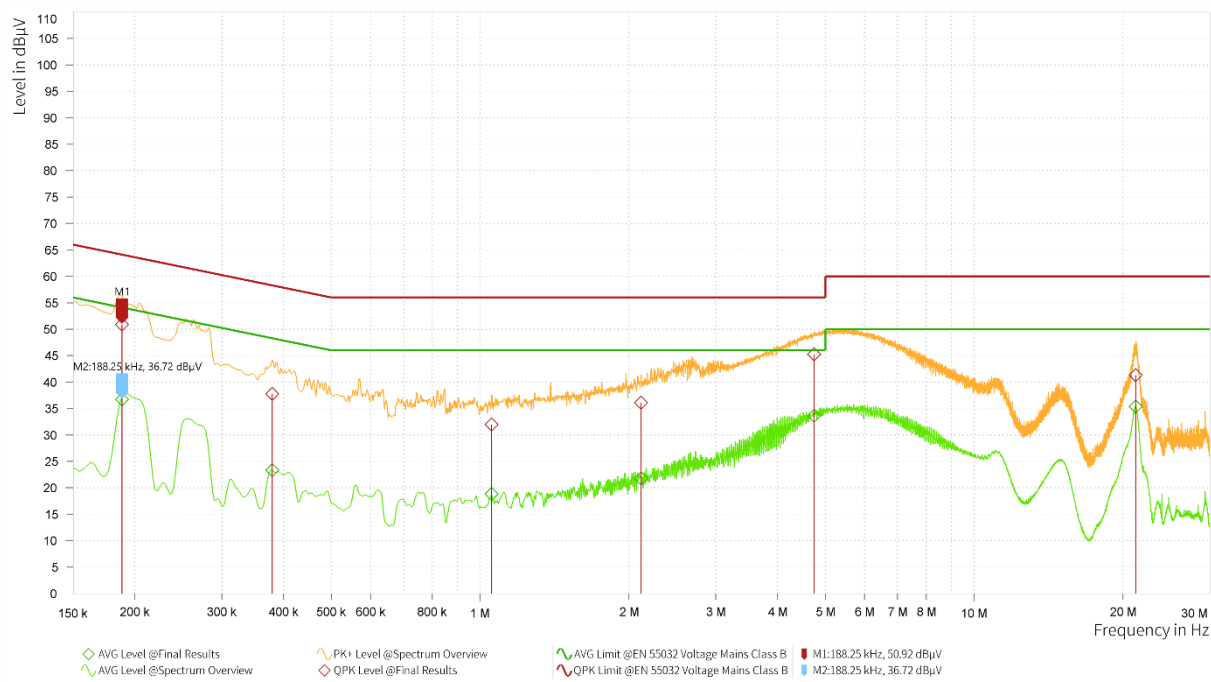
*: Decreases with the logarithm of the frequency.

Note: The EUT should meet CLASS B limit.

Test Results

Following plots, Blue trace uses the peak detection; Green trace uses the average detection.

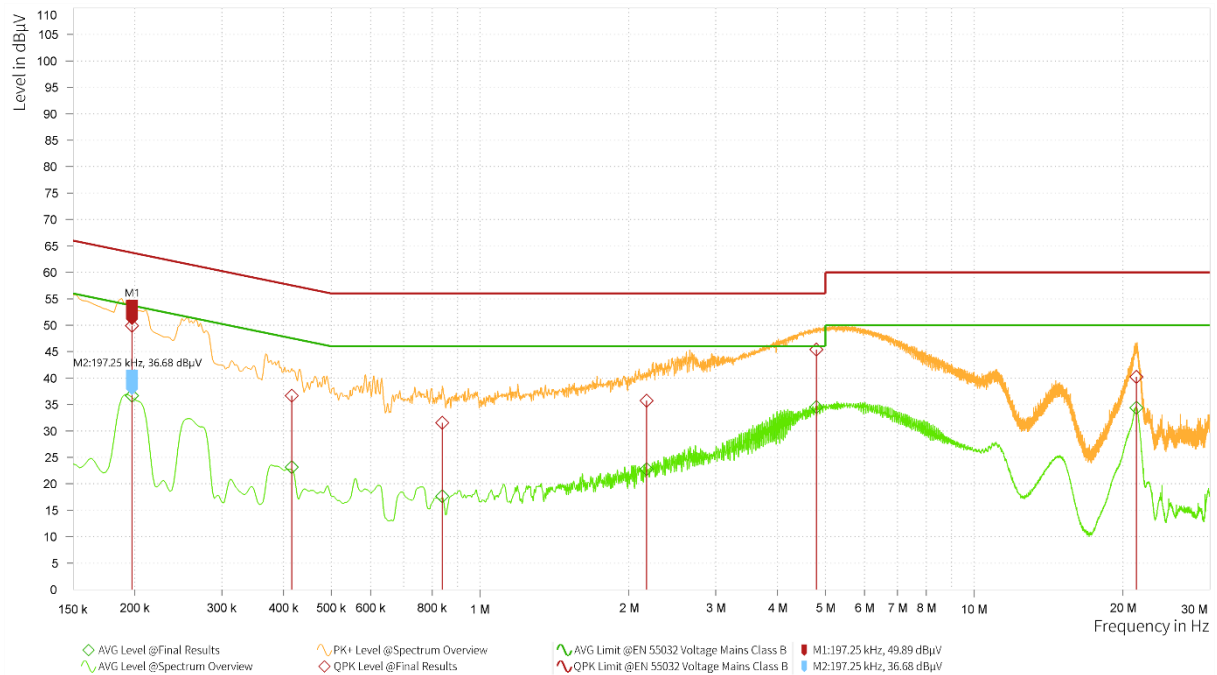
WR320



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]
0.188	50.92	64.11	13.19	36.72	54.11	17.39	21.02	L1	9.000	1.000
0.380	37.74	58.29	20.55	23.34	48.29	24.95	20.90	L1	9.000	1.000
1.055	31.96	56.00	24.04	18.84	46.00	27.16	20.12	L1	9.000	1.000
2.117	36.08	56.00	19.92	21.78	46.00	24.22	19.62	L1	9.000	1.000
4.747	45.25	56.00	10.75	33.62	46.00	12.38	19.41	L1	9.000	1.000
21.226	41.31	60.00	18.69	35.40	50.00	14.60	19.69	L1	9.000	1.000

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]
0.197	49.89	63.73	13.83	36.68	53.73	17.05	21.03	N	9.000	1.000
0.416	36.67	57.54	20.86	23.15	47.54	24.39	20.87	N	9.000	1.000
0.839	31.56	56.00	24.44	17.65	46.00	28.35	20.30	N	9.000	1.000
2.173	35.73	56.00	20.27	22.78	46.00	23.22	19.62	N	9.000	1.000
4.792	45.39	56.00	10.61	34.52	46.00	11.48	19.42	N	9.000	1.000
21.309	40.21	60.00	19.79	34.37	50.00	15.63	19.73	N	9.000	1.000

N line
Conducted Emission from 150 kHz to 30 MHz

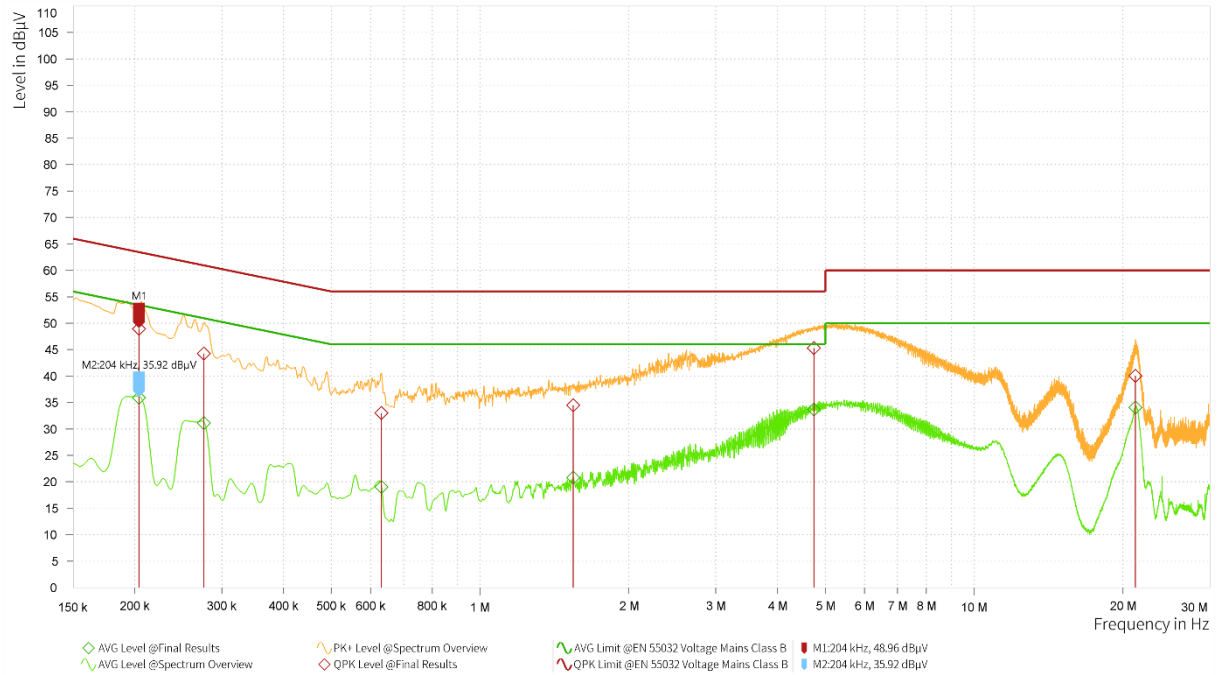
WR310



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]
0.200	49.26	63.63	14.37	36.24	53.63	17.39	21.01	L1	9.000	1.000
0.281	43.23	60.80	17.57	28.25	50.80	22.55	20.95	L1	9.000	1.000
0.755	32.82	56.00	23.18	19.78	46.00	26.22	20.37	L1	9.000	1.000
2.047	35.76	56.00	20.24	21.92	46.00	24.08	19.64	L1	9.000	1.000
4.679	44.66	56.00	11.34	33.11	46.00	12.89	19.41	L1	9.000	1.000
21.523	40.87	60.00	19.13	34.89	50.00	15.11	19.68	L1	9.000	1.000

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]
0.204	48.96	63.45	14.49	35.92	53.45	17.52	21.02	N	9.000	1.000
0.276	44.26	60.94	16.67	31.10	50.94	19.83	20.97	N	9.000	1.000
0.632	33.03	56.00	22.97	19.01	46.00	26.99	20.65	N	9.000	1.000
1.543	34.51	56.00	21.49	20.80	46.00	25.20	19.83	N	9.000	1.000
4.738	45.29	56.00	10.71	33.66	46.00	12.34	19.42	N	9.000	1.000
21.221	40.05	60.00	19.95	34.04	50.00	15.96	19.74	N	9.000	1.000

N line
Conducted Emission from 150 kHz to 30 MHz

4 Uncertainty Measurement

Case	Uncertainty	Factor k
Radiated Emission 30MHz – 200MHz	4.17 dB	1.96
Radiated Emission 200MHz – 1GHz	4.84 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	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
Horn Antenna	R&S	HF907	102724	2024-07-23	2027-07-22
Software	R&S	ELEKTRA	5.02.1	/	/
Conducted Emission					
Artificial main network	R&S	ENV216	102191	2024-12-02	2026-12-01
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 *****