

EMC Test Report

Applicant: AOK Industrial Company Limited

Product: LED Street Light

Model: AOK-20WiLA-NV-L5-ZZ-XXYY-BN-P
(Other models refer to "Model list" for details.)



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In accordance with EN IEC 55015, EN IEC 61000-3-2,
EN 61000-3-3, EN IEC 61547

Prepared for: AOK Industrial Company Limited
1/F of 1#Building, East Block of 3/F of Building 1, And 2/F of Building 4,
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COMMERCIAL-IN-CONFIDENCE

Report Number: 6874023017103

RESPONSIBLE FOR	NAME	SIGNATURE	DATE
Approved by	Dawi Xu		2026-04-08
Prepared by	Hardy Huang		2026-04-08

Signatures in this approval box have checked this document in line with the requirements of TÜV SUD Product Service control rules.

EXECUTIVE SUMMARY A sample of this product was tested and found to be in compliance with	EN IEC 55015:2019+A11:2020 EN IEC 61000-3-2:2019+A1:2021+A2:2024 EN 61000-3-3:2013+A1:2019+A2:2021 EN IEC 61547:2023
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ID Number: GCN_SR EMC_TR_001
Revision:4.0
Effective:2023-12-01

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1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
1	First Issue	2026-04-08

1.2 Introduction

The information contained in this report is intended to show verification of the EMC Qualification Approval Testing of the requirements of the standards for the tests listed in Section 1.3.

Applicant	AOK Industrial Company Limited
Address	1/F of 1#Building, East Block of 3/F of Building 1, And 2/F of Building 4, ST George’s Science and Technology Industrial Park, Northside of Xinyu Road, Xiangshan Community, Xinqiao Street Baoan District, 518000 Shenzhen, Guangdong, PEOPLE’S REPUBLIC OF CHINA
Factory	AOK Industrial Company Limited
Address	1/F of 1#Building, East Block of 3/F of Building 1, And 2/F of Building 4, ST George’s Science and Technology Industrial Park, Northside of Xinyu Road, Xiangshan Community, Xinqiao Street Baoan District, 518000 Shenzhen, Guangdong, PEOPLE’S REPUBLIC OF CHINA
Model Number(s)	AOK-20WiLA-NV-L3-ZZ-XXYY-BN-P; AOK-20WiLA-NV-L5-ZZ-XXYY-BN-P; AOK-30WiLA-NV-L3-ZZ-XXYY-BN-P; AOK-30WiLA-NV-L5-ZZ-XXYY-BN-P; AOK-40WiLA-NV-L3-ZZ-XXYY-BN-P; AOK-40WiLA-NV-L5-ZZ-XXYY-BN-P; AOK-50WiLA-NV-L3-ZZ-XXYY-BN-P; AOK-50WiLA-NV-L5-ZZ-XXYY-BN-P; AOK-60WiLA-NV-L3-ZZ-XXYY-BN-P; AOK-60WiLA-NV-L5-ZZ-XXYY-BN-P; AOK-70WiLA-NV-L3-ZZ-XXYY-BN-P; AOK-70WiLA-NV-L5-ZZ-XXYY-BN-P; AOK-80WiLA-NV-L3-ZZ-XXYY-BN-P; AOK-80WiLA-NV-L5-ZZ-XXYY-BN-P; AOK-90WiLA-NV-L3-ZZ-XXYY-BN-P; AOK-90WiLA-NV-L5-ZZ-XXYY-BN-P; AOK-100WiLA-NV-L3-ZZ-XXYY-BN-P; AOK-100WiLA-NV-L5-ZZ-XXYY-BN-P; AOK-110WiLA-NV-L3-ZZ-XXYY-BN-P; AOK-110WiLA-NV-L5-ZZ-XXYY-BN-P; AOK-120WiLA-NV-L3-ZZ-XXYY-BN-P; AOK-120WiLA-NV-L5-ZZ-XXYY-BN-P; AOK-130WiLA-NV-L3-ZZ-XXYY-BN-P; AOK-130WiLA-NV-L5-ZZ-XXYY-BN-P;



	AOK-140WiLA-NV-L3-ZZ-XXYY-BN-P; AOK-140WiLA-NV-L5-ZZ-XXYY-BN-P; AOK-150WiLA-NV-L3-ZZ-XXYY-BN-P; AOK-150WiLA-NV-L5-ZZ-XXYY-BN-P; AOK-160WiLA-NV-L3-ZZ-XXYY-BN-P; AOK-160WiLA-NV-L5-ZZ-XXYY-BN-P; AOK-170WiLA-NV-L3-ZZ-XXYY-BN-P; AOK-170WiLA-NV-L5-ZZ-XXYY-BN-P; AOK-180WiLA-NV-L3-ZZ-XXYY-BN-P; AOK-180WiLA-NV-L5-ZZ-XXYY-BN-P; (‘ZZ’ stands for whether with NEMA receptacle and short circuit cap, can be 00 and SN, 00=without NEMA receptacle and short circuit cap, SN=with NEMA receptacle and short circuit cap; ‘XX’ stands for CCT of LED, can be 27, 30, 40, 50, 57 and 65, 27=2700K, 30=3000K, 40=4000K, 50=5000K, 57=5700K, 65=6500K; ‘YY’ stands for CRI(color rendering index), can be 70, 80 and 90, 70= Ra: 70, 80= Ra: 80, 90= Ra: 90; ‘BN’ stands for beam angles Type, can be T2, T3 and T4, T2=Type II, T3=Type III, T4=Type IV)	
Product Type	LED Street Light	
Test Specification	EN IEC 55015:2019+A11:2020 EN IEC 61000-3-2:2019+A1:2021+A2:2024 EN 61000-3-3:2013+A1:2019+A2:2021 EN IEC 61547:2023	
Trade Mark(s)	 AOK	
Date of Receipt of EUT	2023-10-08	2026-01-22
Start of Test	2023-10-08	2026-01-22
Finish of Test	2023-10-20	2026-01-23
Name of Engineer(s)	Hardy Huang	

1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with EN IEC 55015, EN IEC 61000-3-2, EN 61000-3-3, EN IEC 61547 is shown below.

Specification	Clause	Test Description	Result	Comments/Base Standard
EN IEC 55015:2019+A11:2020	4.3.1	Disturbance voltage at the electric power supply ports	Pass	N/A
EN IEC 55015:2019+A11:2020	4.3.2	Disturbance voltage limits at wired network ports	N/A	N/A
EN IEC 55015:2019+A11:2020	4.4	Disturbance Current at local wired ports	N/A	N/A
EN IEC 55015:2019+A11:2020	4.4	Disturbance Voltage at local wired ports	N/A	N/A
EN IEC 55015:2019+A11:2020	4.5.2	Radiated Disturbance (9KHz to 30MHz)	Pass	N/A
EN IEC 55015:2019+A11:2020	4.5.3	Radiated Disturbance (30MHz to 1000MHz)	Pass	N/A
EN IEC 61000-3-2:2019+A1:2021+A2:2024	7	Harmonic Current Emissions	Pass	N/A
EN 61000-3-3:2013+A1:2019+A2:2021	5	Flicker*	N/A	N/A
EN IEC 61547:2023	5.2	Electrostatic discharge immunity test	Pass	IEC 61000-4-2
EN IEC 61547:2023	5.3	Radiated, radio-frequency, electromagnetic field immunity test	Pass	IEC 61000-4-3
EN IEC 61547:2023	5.4	Power frequency magnetic field immunity test**	N/A	IEC 61000-4-8
EN IEC 61547:2023	5.5	Electrical fast transient /burst immunity test	Pass	IEC 61000-4-4
EN IEC 61547:2023	5.6	Immunity to conducted disturbances, induced by radio-frequency fields	Pass	IEC 61000-4-6
EN IEC 61547:2023	5.7	Surge immunity test	Pass	IEC 61000-4-5
EN IEC 61547:2023	5.8	Voltage dips, short interruptions and voltage variations immunity test	Pass	IEC 61000-4-11

Note:

“*” Limits are not specified when LED lamp luminaires with rating less than or equal to 600W (EN 61000-3-3:2013+A2:2021, Annex A (A.2))

“***” Only applied to equipment containing components susceptible to magnetic fields, such as Hall elements or magnetic field sensors.

1.4 Product Information

This report is based on the previous report no.: 68.740.23.0171.02 with following modification:

- Standards were updated as below:

Original standards	New standards
EN IEC 61000-3-2:2019+A1:2021	EN IEC 61000-3-2:2019+A1:2021+A2:2024
EN 61547:2009	EN IEC 61547:2023
EN 61000-3-3:2013/A1:2019	EN 61000-3-3:2013+A1:2019+A2:2021

- The following drivers were deleted:

OT 20/170-240/1A0 4DIMLT2 G2 CE,
 OT 40/170-240/1A0 4DIMLT2 G2 CE
 OT 75/170-240/1A0 4DIMLT2 G2 CE
 OT 110/170-240/1A0 4DIMLT2 G2 CE
 OT 165/170-240/1A0 4DIMLT2 G2 CE

After evaluation, the original test results are still valid. Additional tests (ESD immunity test, Surge immunity test) were conducted on models AOK-20WiLA-NV-L3-00-6570-T2-P, AOK-40WiLA-NV-L3-00-6570-T2-P, AOK-60WiLA-NV-L3-00-6570-T2-P, AOK-70WiLA-NV-L3-00-6570-T2-P, AOK-100WiLA-NV-L3-00-6570-T2-P, AOK-120WiLA-NV-L3-00-6570-T2-P, AOK-150WiLA-NV-L3-00-6570-T2-P and AOK-180WiLA-NV-L3-00-6570-T2-P due to these changes.

1.4.1 Technical Description

Model name: AOK-20WiLA-NV-L3-ZZ-XXYY-BN-P;
 AOK-20WiLA-NV-L5-ZZ-XXYY-BN-P;
 AOK-30WiLA-NV-L3-ZZ-XXYY-BN-P;
 AOK-30WiLA-NV-L5-ZZ-XXYY-BN-P;
 AOK-40WiLA-NV-L3-ZZ-XXYY-BN-P;
 AOK-40WiLA-NV-L5-ZZ-XXYY-BN-P;
 AOK-50WiLA-NV-L3-ZZ-XXYY-BN-P;
 AOK-50WiLA-NV-L5-ZZ-XXYY-BN-P;
 AOK-60WiLA-NV-L3-ZZ-XXYY-BN-P;
 AOK-60WiLA-NV-L5-ZZ-XXYY-BN-P;
 AOK-70WiLA-NV-L3-ZZ-XXYY-BN-P;
 AOK-70WiLA-NV-L5-ZZ-XXYY-BN-P;
 AOK-80WiLA-NV-L3-ZZ-XXYY-BN-P;
 AOK-80WiLA-NV-L5-ZZ-XXYY-BN-P;
 AOK-90WiLA-NV-L3-ZZ-XXYY-BN-P;
 AOK-90WiLA-NV-L5-ZZ-XXYY-BN-P;
 AOK-100WiLA-NV-L3-ZZ-XXYY-BN-P;
 AOK-100WiLA-NV-L5-ZZ-XXYY-BN-P;
 AOK-110WiLA-NV-L3-ZZ-XXYY-BN-P;
 AOK-110WiLA-NV-L5-ZZ-XXYY-BN-P;
 AOK-120WiLA-NV-L3-ZZ-XXYY-BN-P;
 AOK-120WiLA-NV-L5-ZZ-XXYY-BN-P;
 AOK-130WiLA-NV-L3-ZZ-XXYY-BN-P;
 AOK-130WiLA-NV-L5-ZZ-XXYY-BN-P;
 AOK-140WiLA-NV-L3-ZZ-XXYY-BN-P;
 AOK-140WiLA-NV-L5-ZZ-XXYY-BN-P;
 AOK-150WiLA-NV-L3-ZZ-XXYY-BN-P;
 AOK-150WiLA-NV-L5-ZZ-XXYY-BN-P;
 AOK-160WiLA-NV-L3-ZZ-XXYY-BN-P;
 AOK-160WiLA-NV-L5-ZZ-XXYY-BN-P;
 AOK-170WiLA-NV-L3-ZZ-XXYY-BN-P;

AOK-170WiLA-NV-L5-ZZ-XXYY-BN-P;
 AOK-180WiLA-NV-L3-ZZ-XXYY-BN-P;
 AOK-180WiLA-NV-L5-ZZ-XXYY-BN-P;
 ('ZZ' stands for whether with NEMA receptacle and short circuit cap,
 can be 00 and SN, 00=without NEMA receptacle and short circuit
 cap, SN=with NEMA receptacle and short circuit cap;'XX' stands for
 CCT of LED, can be 27, 30, 40, 50, 57 and 65, 27=2700K,
 30=3000K, 40=4000K, 50=5000K, 57=5700K, 65=6500K;
 'YY' stands for CRI(color rendering index), can be 70, 80 and 90, 70=
 Ra: 70, 80= Ra: 80, 90= Ra: 90;'BN' stands for beam angles Type,
 can be T2, T3 and T4, T2=Type II, T3=Type III, T4=Type IV)

Rated Voltage: 220-240VAC
 Rated Frequency: 50/60Hz
 Rated Power: See 'Model list' for details
 Protection Class: II

1.4.2 General product information:

1. The products covered in this report are Class II LED street lights, equipped with non-user replaceable light source is for outdoor use only.

For models with 'L3', the LED type is 3030 (LUXEON 3030 HE Plus and LUXEON 3030 2D Line);

For models with 'L5', the LED type is 5050 (LUXEON 5050).

2. Model list for luminaire:

Model No.	Rated Power (W)	LED driver	Mount height (m)	Weight (kg); Size (mm) L*W*H	Max. projected area (m ²)		
					Side	Front	Top
AOK-20WiLA-NV-L3-ZZ-XXYY-BN-P; AOK-20WiLA-NV-L5-ZZ-XXYY-BN-P	20	SS-22PA-32B	4-12	3.5; 537*23 7*89	0.029	0.0152	0.10
		U7-026D038					
AOK-30WiLA-NV-L3-ZZ-XXYY-BN-P; AOK-30WiLA-NV-L5-ZZ-XXYY-BN-P	30	SS-40PA-54B					
		U7-040D057					
AOK-40WiLA-NV-L3-ZZ-XXYY-BN-P; AOK-40WiLA-NV-L5-ZZ-XXYY-BN-P	40	SS-40PA-54B					
		U7-040D057					
AOK-50WiLA-NV-L3-ZZ-XXYY-BN-P; AOK-50WiLA-NV-L5-ZZ-XXYY-BN-P	50	SS-75PA-108B					
		U7-060D086					
AOK-60WiLA-NV-L3-ZZ-XXYY-BN-P; AOK-60WiLA-NV-L5-ZZ-XXYY-BN-P	60	SS-75PA-108B					
		U7-060D086					
AOK-70WiLA-NV-L3-ZZ-XXYY-BN-P; AOK-70WiLA-NV-L5-ZZ-XXYY-BN-P	70	SS-75PA-108B	4-12	3.8; 587*25 7*89	0.0322	0.0167	0.12
		U7-080D115					
AOK-80WiLA-NV-L3-	80	SS-110PA-160B					

AOK-80WiLA-NV-L5-ZZ-XXYY-BN-P;		U7-080D115					
AOK-90WiLA-NV-L3-ZZ-XXYY-BN-P;	90	SS-110PA-160B					
AOK-90WiLA-NV-L5-ZZ-XXYY-BN-P		U7-120D172					
AOK-100WiLA-NV-L3-ZZ-XXYY-BN-P;	100	SS-110PA-160B					
AOK-100WiLA-NV-L5-ZZ-XXYY-BN-P		U7-120D172					
AOK-110WiLA-NV-L3-ZZ-XXYY-BN-P;	110	SS-110PA-160B					
AOK-110WiLA-NV-L5-ZZ-XXYY-BN-P		U7-120D172					
AOK-120WiLA-NV-L3-ZZ-XXYY-BN-P;	120	SS-165PA-235B	4-12	5.0; 632*25 9*89	0.035	0.01729	0.1331
AOK-120WiLA-NV-L5-ZZ-XXYY-BN-P		U7-120D172					
AOK-130WiLA-NV-L3-ZZ-XXYY-BN-P;	130	SS-165PA-235B					
AOK-130WiLA-NV-L5-ZZ-XXYY-BN-P		U7-165D236					
AOK-140WiLA-NV-L3-ZZ-XXYY-BN-P;	140	SS-165PA-235B					
AOK-140WiLA-NV-L5-ZZ-XXYY-BN-P		U7-165D236					
AOK-150WiLA-NV-L3-ZZ-XXYY-BN-P;	150	SS-165PA-235B					
AOK-150WiLA-NV-L5-ZZ-XXYY-BN-P		U7-165D236					
AOK-160WiLA-NV-L3-ZZ-XXYY-BN-P;	160	U7-200D286					
AOK-160WiLA-NV-L5-ZZ-XXYY-BN-P							
AOK-170WiLA-NV-L3-ZZ-XXYY-BN-P;	170	U7-200D286					
AOK-170WiLA-NV-L5-ZZ-XXYY-BN-P							
AOK-180WiLA-NV-L3-ZZ-XXYY-BN-P;	180	U7-200D286					
AOK-180WiLA-NV-L5-ZZ-XXYY-BN-P							
Note: - 'ZZ' stands for whether with NEMA receptacle and short circuit cap, can be 00 and SN, 00=without NEMA receptacle and short circuit cap, SN=with NEMA receptacle and short circuit cap; - 'XX' stands for CCT of LED, can be 27, 30, 40, 50, 57 and 65, 27=2700K, 30=3000K, 40=4000K, 50=5000K, 57=5700K, 65=6500K; - 'YY' stands for CRI(color rendering index), can be 70, 80 and 90, 70= Ra: 70, 80= Ra: 80, 90= Ra: 90; - 'BN' stands for beam angles Type, can be T2, T3 and T4, T2=Type II, T3=Type III, T4=Type IV; - The dimming function of the drive will not be reflected in the LED street light.							

3. Driver model list:

Model No.	Manufacturer/trade mark	Technical data				Mark(s) of conformity ¹⁾
		Rated input	Rated output	ta; tc (°C)	Remark	
SS-22PA-32B	Shenzhen Sosen Electronics Co., Ltd.	220-240VAC; 50/60Hz; Max.0,13A	12-32VDC; CC; 0,35-1,05A; U _{out} :50VDC; P _{rated} :22,4W	55; 90	Built-in type; SELV; Ⓢ	DEKRA (ENEC) 35-117314*
SS-40PA-54B	Shenzhen Sosen Electronics Co., Ltd.	220-240VAC; 50/60Hz; Max.0,22A	20-54VDC; CC; 0,35-1,05A; U _{out} :70VDC; P _{rated} :40W	55; 90	Built-in type; SELV; Ⓢ	DEKRA (ENEC) 35-117314*
SS-75PA-108B	Shenzhen Sosen Electronics Co., Ltd.	220-240VAC; 50/60Hz; Max.0,5A	38-108VDC; CC; 0,35-1,05A; U _{out} :130VDC; P _{rated} :75W	55; 90	Built-in type; Isolating (Non-SELV); Ⓢ	DEKRA (ENEC) 35-117394*
SS-110PA-160B	Shenzhen Sosen Electronics Co., Ltd.	220-240VAC; 50/60Hz; Max.0,65A	55-160VDC; CC; 0,35-1,05A; U _{out} :180VDC; P _{rated} :110W	55; 90	Built-in type; Isolating (Non-SELV); Ⓢ	DEKRA (ENEC) 35-117394*
SS-165PA-235B	Shenzhen Sosen Electronics Co., Ltd.	220-240VAC; 50/60Hz; Max.0,9A	90-235VDC; CC; 0,35-1,05A; U _{out} :250VDC; P _{rated} :165W	55; 90	Built-in type; Isolating (Non-SELV); Ⓢ	DEKRA (ENEC) 35-117394*
Remark: For luminaires with dimmable LED drivers: - Reinforced insulation was provided between LV supply and output/dimming circuit; - Basic insulation was provided between output circuit and dimming circuit.						
U7-026D038	Shen Zhen MOSO Electronics Technology Co., Ltd.	220-240VAC; 50/60Hz; Max.0,3A	20-38VDC; CC; 0,105-1,05A; U _{out} :70VDC; P _{rated} :26W	55; 85	Built-in type; SELV; Ⓢ	TÜV Rheinland (ENEC) HN 69290744*
U7-040D057	Shen Zhen MOSO Electronics Technology Co., Ltd.	220-240VAC; 50/60Hz; Max.0,3A	28-57VDC; CC; 0,105-1,05A; U _{out} :100VDC; P _{rated} :40W	55; 85	Built-in type; SELV; Ⓢ	TÜV Rheinland (ENEC) HN 69290744*
U7-060D086	Shen Zhen MOSO Electronics Technology Co., Ltd.	220-240VAC; 50/60Hz; Max.0,5A	38-86VDC; CC; 0,105-1,05A; U _{out} :120VDC; P _{rated} :60W	55; 85	Built-in type; SELV; Ⓢ	TÜV Rheinland (ENEC) HN 69290744*
U7-080D115	Shen Zhen MOSO Electronics Technology Co., Ltd.	220-240VAC; 50/60Hz; Max.0,65A	35-115VDC; CC; 0,105-1,05A; U _{out} :140VDC; P _{rated} :80W	55; 90	Built-in type; Isolating (Non-SELV); Ⓢ	TÜV Rheinland (ENEC) HN 69290744*
U7-120D172	Shen Zhen MOSO Electronics	220-240VAC;	75-172VDC; CC;	50; 90	Built-in type; Isolating (Non-	TÜV Rheinland

	Technology Co., Ltd.	50/60Hz; Max. 1,0A	0,105-1,05A; U _{out} :200VDC; P _{rated} :120W		SELV) ; 	(ENEC) HN 69290744*
U7-165D236	Shen Zhen MOSO Electronics Technology Co., Ltd.	220-240VAC; 50/60Hz; Max. 1,3A	115-236VDC; CC; 0,105-1,05A; U _{out} :260VDC; P _{rated} :165W	50; 90	Built-in type; Isolating (Non-SELV) ; 	TÜV Rheinland (ENEC) HN 69290744*
U7-200D286	Shen Zhen MOSO Electronics Technology Co., Ltd.	220-240VAC; 50/60Hz; Max. 1,6A	143-286VDC; CC; 0,105-1,05A; U _{out} :310VDC; P _{rated} :200W	50; 90	Built-in type; Isolating (Non-SELV) ; 	TÜV Rheinland (ENEC) HN 69290744*
Remark: For luminaires with dimmable LED drivers: - Reinforced insulation was provided between LV supply and output/dimming circuit; - Basic insulation was provided between output circuit and dimming circuit.						

4. Due to the similarity models, EMC full test were applied on models AOK-20WiLA-NV-L3-00-6570-T2-P, AOK-40WiLA-NV-L3-00-6570-T2-P, AOK-60WiLA-NV-L3-00-6570-T2-P, AOK-70WiLA-NV-L3-00-6570-T2-P, AOK-100WiLA-NV-L3-00-6570-T2-P, AOK-120WiLA-NV-L3-00-6570-T2-P, AOK-150WiLA-NV-L3-00-6570-T2-P and AOK-180WiLA-NV-L3-00-6570-T2-P, other models are deemed to fulfill relevant EMC requirement without further testing. See below table for details:

Model for luminaire:	Model for driver	Tested model
AOK-20WiLA-NV-L3-00-6570-T2-P	SS-22PA-32B	AOK-20WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-22PA-32B)
	U7-026D038	AOK-20WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-026D038)
AOK-40WiLA-NV-L3-00-6570-T2-P	SS-40PA-54B	AOK-40WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-40PA-54B)
	U7-040D057	AOK-40WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-040D057)
AOK-60WiLA-NV-L3-00-6570-T2-P	U7-060D086	AOK-60WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-060D086)
AOK-70WiLA-NV-L3-00-6570-T2-P	SS-75PA-108B	AOK-70WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-75PA-108B)
	U7-080D115	AOK-70WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-080D115)
AOK-100WiLA-NV-L3-00-6570-T2-P	SS-110PA-160B	AOK-100WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-110PA-160B)
AOK-120WiLA-NV-L3-00-6570-T2-P	U7-120D172	AOK-120WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-120D172)
AOK-150WiLA-NV-L3-00-6570-T2-P	SS-165PA-235B	AOK-150WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-165PA-235B)
	U7-165D236	AOK-150WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-165D236)
AOK-180WiLA-NV-L3-00-6570-T2-P	U7-200D286	AOK-180WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-200D286)

1.4.3 EUT Port/Cable Identification/ Auxiliary Equipment

Port	Max Cable Length specified	Usage	Type	Screened
AC Power cable	/	/	/	/

Auxiliary Equipment	Brand, Model, Serial	Cable Description (List Length, Type & Purpose)	Remark
---	---	---	---

1.4.4 Test Configuration

Configuration	Description
AC Powered	230VAC, 50Hz

1.4.5 Modes of Operation

Mode	Description
Lighting	The LED Street Light (EUT) was testing with AC power on, to get the status 'Full load'.
Handling mode	The EUT was in a non-powered installation or maintenance state.

1.4.6 Performance Criteria

Performance criterion A: During the test, no change of the luminous intensity shall be observed and the regulating control, if any, shall operate during the test as intended.

Performance criterion B: During the test, the luminous intensity may change to any value. After the test, the luminous intensity shall be restored to its initial value within 1 min. Regulating controls need not function during the test, but after the test, the mode of the control shall be the same as before the test provided that during the test no mode changing commands were given.

Performance criterion C: During and after the test, any change of the luminous intensity is allowed and the lamp(s) may be extinguished. After the test, within 30 min, all functions shall return to normal, if necessary by temporary interruption of the mains supply and/or operating the regulating control.

Additional requirement for lighting equipment incorporating a starting device: After the test, the lighting equipment is switched off. After half an hour, it is switched on again. The lighting equipment shall start and operate as intended.

1.5 Deviations from the Standard

No deviations from the applicable test standard were made during testing.

1.6 Test Location

Test site 1:

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

Address: Building 12 & 13, Zhiheng Wisdomland Business Park, Guankou Erlu,
Nantou, Nanshan District, Shenzhen, 518052 China

Test Name	Name of Engineer(s)	Test site
Disturbance voltage at the electric power supply ports	Lynn Huang	1
Disturbance voltage at wired network ports	N/A	N/A
Disturbance Current at local wired ports	N/A	N/A
Disturbance Voltage at local wired ports	N/A	N/A
Radiated Disturbance (9KHz to 30MHz)	Lynn Huang	1
Radiated Disturbance (30MHz to 1000MHz)	Felix Jiang	1
Harmonic Current Emissions	Timothy Wang	1
Flicker	N/A	N/A
Electrostatic discharge immunity test	Xavier He	1
Radiated, radio-frequency, electromagnetic field immunity test	Adam Yang	1
Power frequency magnetic field immunity test	N/A	N/A
Electrical fast transient /burst immunity test	Adam Yang	1
Immunity to conducted disturbances, induced by radio-frequency fields	Adam Yang	1
Surge immunity test	Timothy Wang	1
Voltage dips, short interruptions and voltage variations immunity test	Timothy Wang	1

2 Test Details

2.1 Disturbance voltage at the electric power supply ports

2.1.1 Specification Reference

EN IEC 55015:2019+A11:2020, Clause 4.3.1

2.1.2 Equipment Under Test

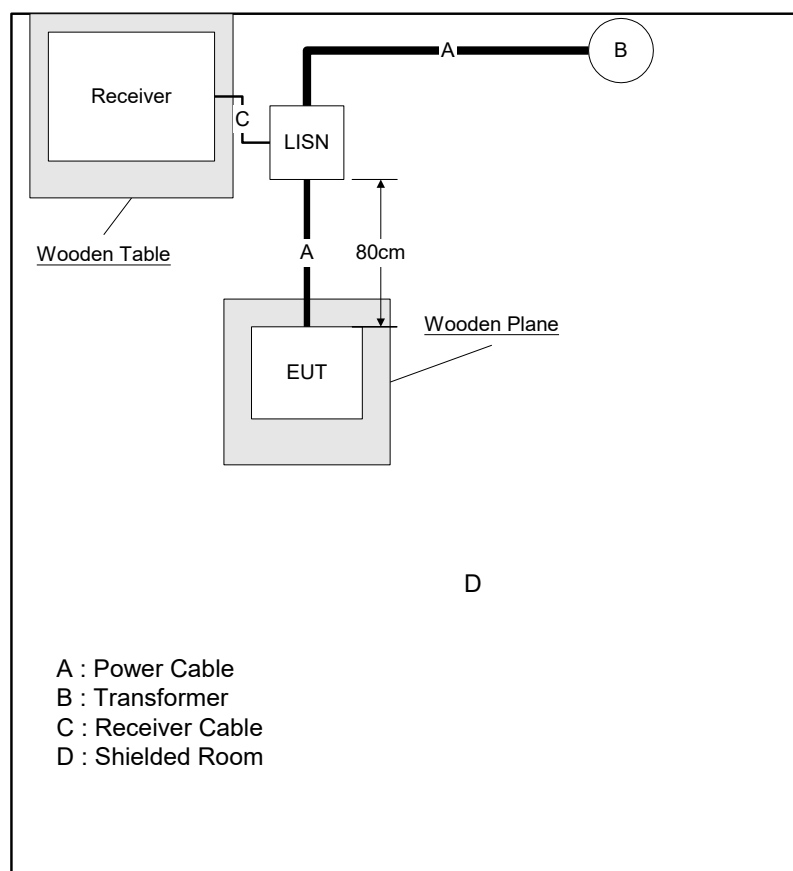
AOK-20WiLA-NV-L3-00-6570-T2-P, AOK-40WiLA-NV-L3-00-6570-T2-P, AOK-60WiLA-NV-L3-00-6570-T2-P, AOK-70WiLA-NV-L3-00-6570-T2-P, AOK-100WiLA-NV-L3-00-6570-T2-P, AOK-120WiLA-NV-L3-00-6570-T2-P, AOK-150WiLA-NV-L3-00-6570-T2-P and AOK-180WiLA-NV-L3-00-6570-T2-P

2.1.3 Date of Test

2023-10-08

2.1.4 Test Method

The disturbance voltage shall be measured at the main terminals of the lighting equipment by means of the arrangement described in Figure 5 and 6 for the relevant type of equipment. The output terminals of the artificial mains network (AMN) and the terminals a-b shall be positioned $0,8\text{m} \pm 20\%$ apart and shall be connected by the two power conductors of a flexible three-core cable of 0,8m length.



2.1.5 Environmental Conditions

Ambient Temperature	23.3 °C
Relative Humidity	54.4 %
Atmospheric Pressure	1011.0 mbar

2.1.6 Specification Limits

Disturbance voltage limits at the electric power supply ports		
Frequency range	Limits dB(μV)	
	Quasi-peak	Average
9kHz to 50kHz	110	--
50kHz to 150kHz	90 to 80	--
150kHz to 0.5MHz	66 to 56	56 to 46
0.5MHz to 5.0MHz	56	46
5.0MHz to 30MHz	60	50

Remark:

Level=Reading Level + Correction Factor

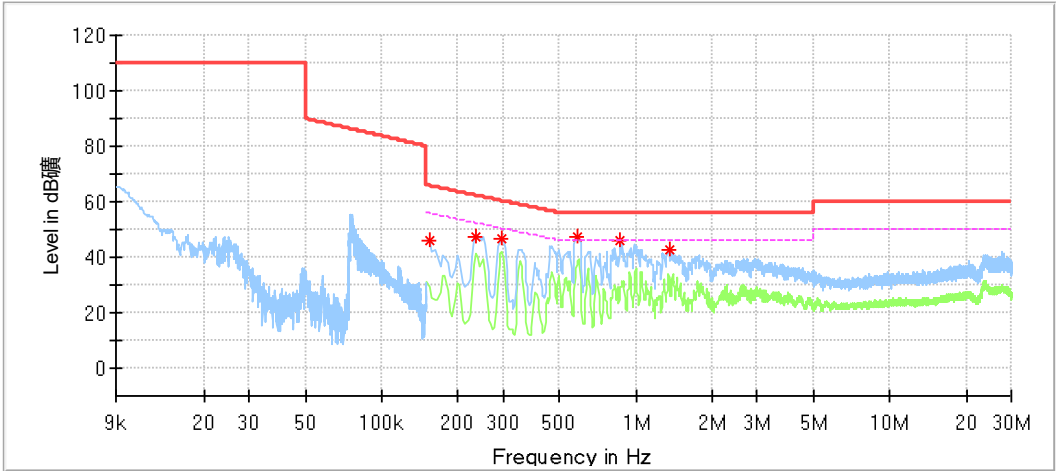
Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)



2.1.7 Test Results

M/N: AOK-20WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-22PA-32B)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Line Under Test: Power Line, Live
Date of Test: 2023-10-08
Detailed results are shown below



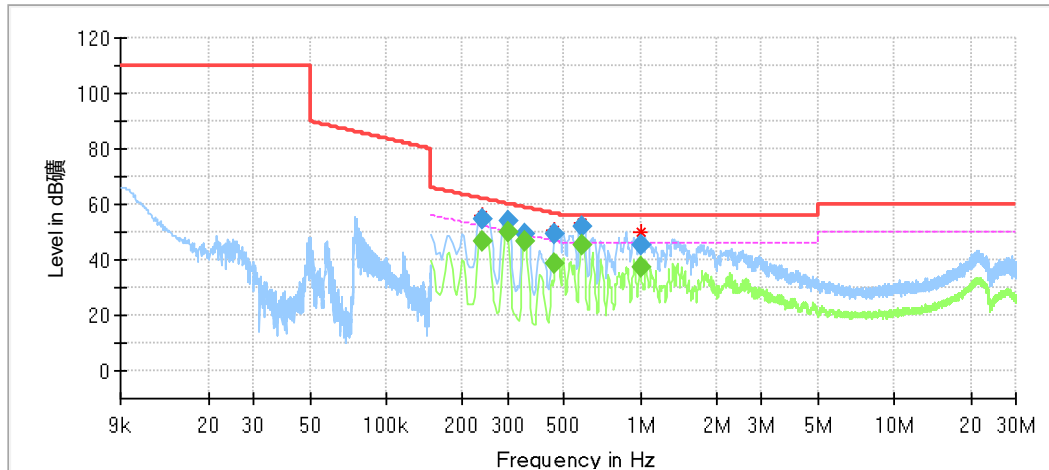
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.154000	46.21	---	65.78	19.57	L1	9.52
0.234000	47.27	---	62.31	15.04	L1	9.55
0.298000	46.65	---	60.30	13.64	L1	9.57
0.586000	47.20	---	56.00	8.80	L1	9.60
0.866000	45.89	---	56.00	10.11	L1	9.60
1.358000	42.71	---	56.00	13.29	L1	9.61

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---		---

M/N: AOK-20WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-22PA-32B)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Line Under Test: Power Line, Neutral
 Date of Test: 2023-10-08
 Detailed results are shown below



Critical_Freqs

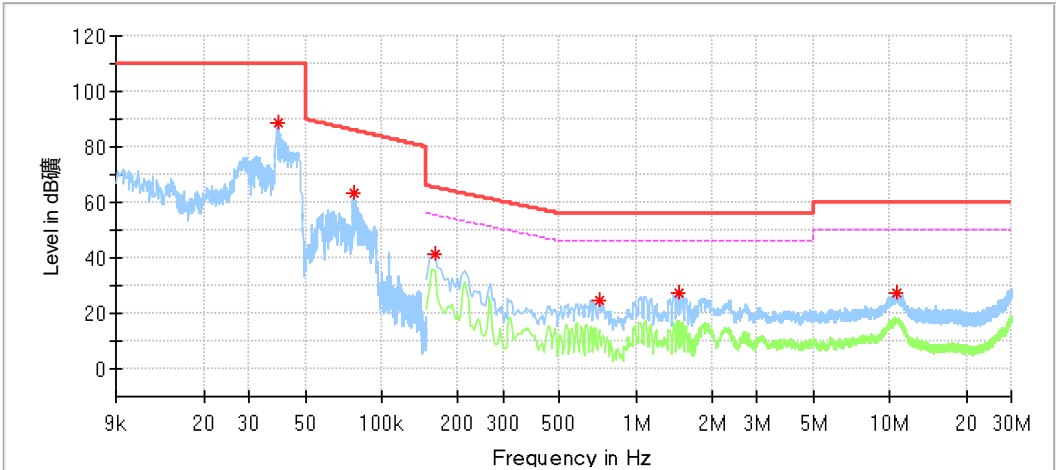
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.240575	56.32	---	62.17	5.85	N	9.58
0.299399	---	50.46	50.30	-0.16	N	9.60
0.348955	---	46.93	58.96	12.03	N	9.61
0.462075	50.87	---	56.66	5.79	N	9.61
0.591355	53.48	---	56.00	2.52	N	9.63
1.006500	50.28	---	56.00	5.72	N	9.63

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.240575	---	46.75	52.08	5.32	N	9.58
0.240575	54.72	---	62.08	7.35	N	9.58
0.299399	---	50.03	50.26	0.23	N	9.60
0.299399	54.21	---	60.26	6.05	N	9.60
0.348955	---	46.59	48.99	2.40	N	9.61
0.348955	49.59	---	58.99	9.40	N	9.61
0.462075	---	38.70	46.66	7.95	N	9.61
0.462075	49.37	---	56.66	7.29	N	9.61
0.591355	---	45.04	46.00	0.96	N	9.63
0.591355	51.99	---	56.00	4.01	N	9.63
1.006500	---	37.13	46.00	8.87	N	9.63
1.006500	45.35	---	56.00	10.65	N	9.63



M/N: AOK-20WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-026D038)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Line Under Test: Power Line, Live
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

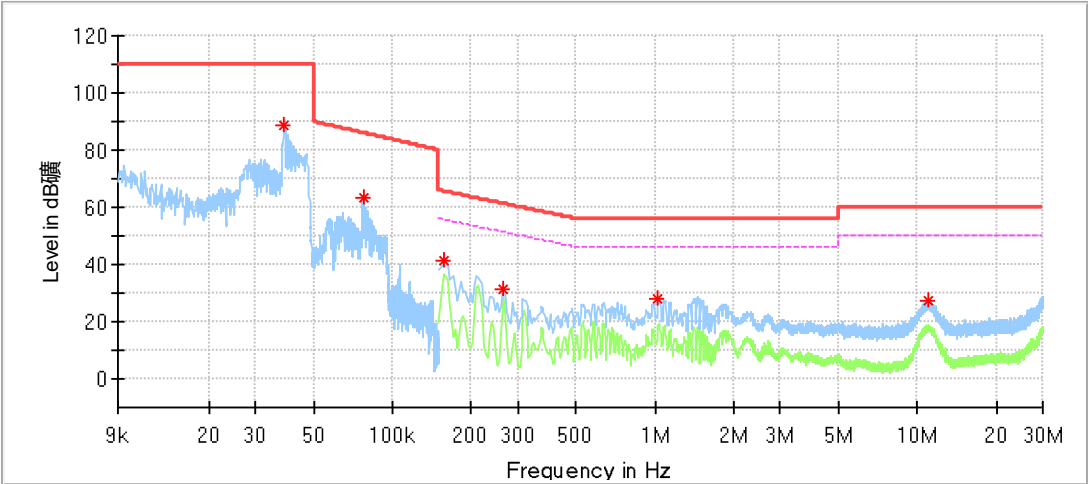
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.039000	88.62	---	110.00	21.38	L1	9.49
0.077320	63.08	---	86.03	22.95	L1	9.47
0.162000	41.11	---	65.36	24.25	L1	9.54
0.714000	24.46	---	56.00	31.54	L1	9.60
1.478000	27.33	---	56.00	28.67	L1	9.61
10.590000	27.52	---	60.00	32.48	L1	9.96

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---		---



M/N: AOK-20WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-026D038)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Line Under Test: Power Line, Neutral
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

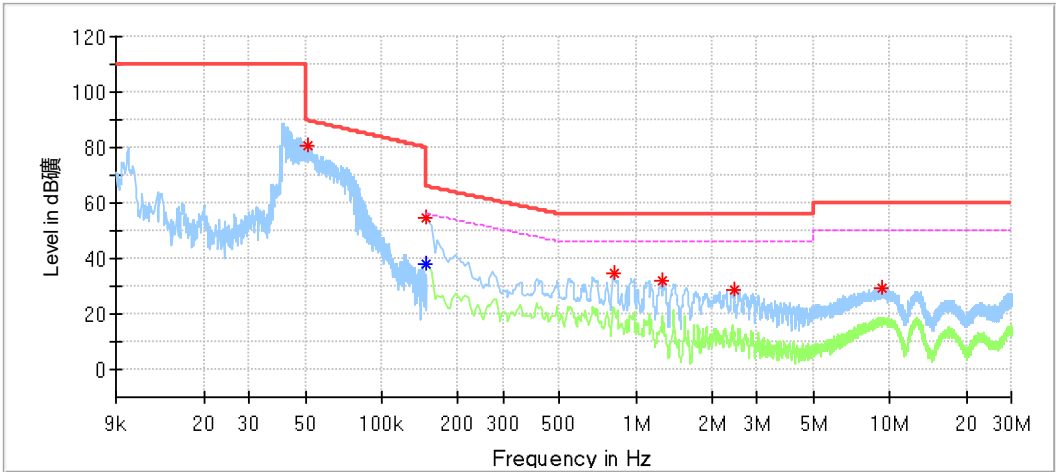
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.038840	88.86	---	110.00	21.14	N	9.56
0.077320	63.44	---	86.03	22.59	N	9.51
0.158000	41.17	---	65.57	24.40	N	9.56
0.266000	31.47	---	61.24	29.77	N	9.59
1.026000	27.70	---	56.00	28.30	N	9.63
10.934000	27.54	---	60.00	32.46	N	9.97

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---		---



M/N: AOK-40WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-40PA-54B)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Line Under Test: Power Line, Live
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.051560	80.37	---	89.72	9.35	L1	9.53
0.150000	54.51	---	66.00	11.49	L1	9.57
0.150000	---	37.67	56.00	18.33	L1	9.57
0.822000	34.73	---	56.00	21.27	L1	9.64
1.266000	32.07	---	56.00	23.93	L1	9.64
2.426000	28.34	---	56.00	27.66	L1	9.67
9.342000	29.41	---	60.00	30.59	L1	9.91

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---	---	---



M/N: AOK-40WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-40PA-54B)

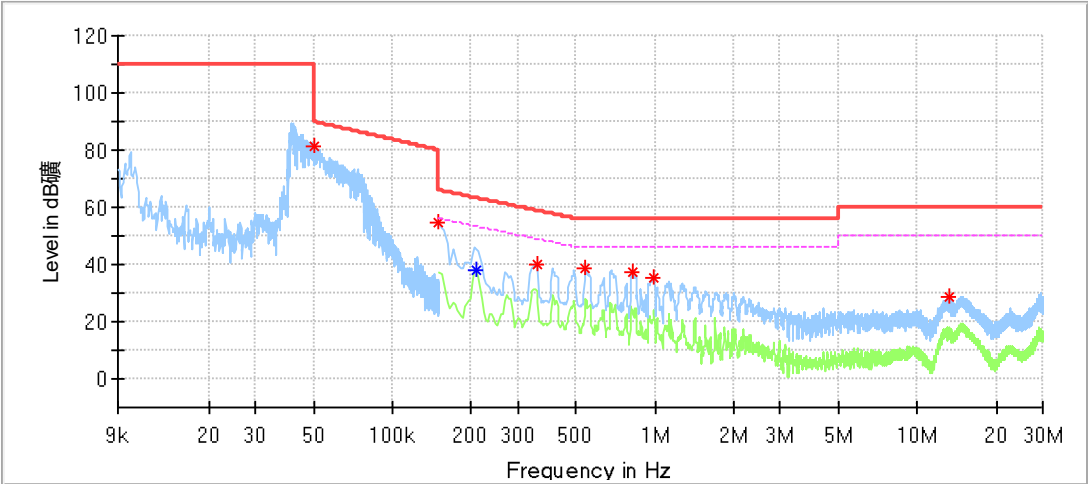
Op Cond.: Lighting

Comment: AC 230V/50Hz

Line Under Test: Power Line, Neutral

Date of Test: 2023-10-08

Detailed results are shown below



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.050040	81.30	---	89.99	8.70	N	9.51
0.150000	54.83	---	66.00	11.17	N	9.56
0.210000	---	37.90	53.21	15.30	N	9.59
0.354000	40.27	---	58.87	18.59	N	9.61
0.542000	38.35	---	56.00	17.65	N	9.63
0.822000	37.44	---	56.00	18.56	N	9.64
0.994000	35.49	---	56.00	20.51	N	9.64
13.298000	28.48	---	60.00	31.52	N	9.95

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---		---



M/N: AOK-40WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-040D057)

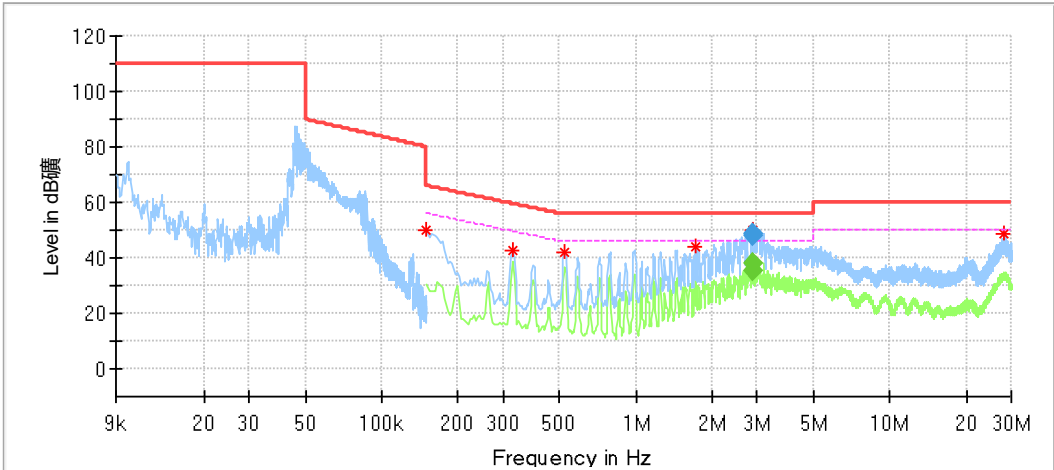
Op Cond.: Lighting

Comment: AC 230V/50Hz

Line Under Test: Power Line, Live

Date of Test: 2023-10-08

Detailed results are shown below



Critical_Freqs

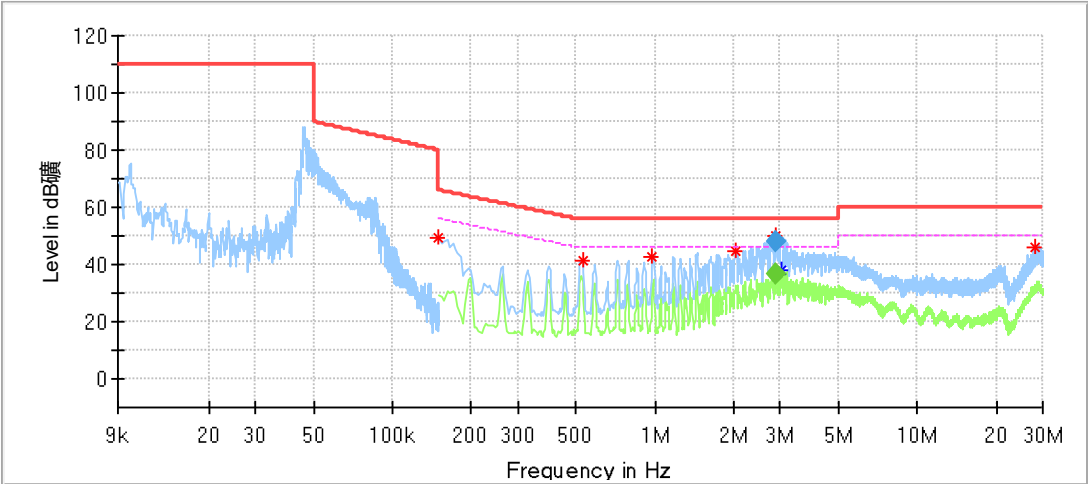
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.150000	50.05	---	66.00	15.95	L1	9.57
0.330000	42.58	---	59.45	16.87	L1	9.61
0.526000	41.90	---	56.00	14.10	L1	9.63
1.718000	44.23	---	56.00	11.77	L1	9.65
2.889500	50.32	---	56.00	5.68	L1	9.69
2.901500	---	38.66	46.00	7.34	L1	9.69
28.286000	49.00	---	60.00	11.00	L1	10.03

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
2.889500	---	35.50	46.00	10.50	L1	9.69
2.889500	48.56	---	56.00	7.44	L1	9.69
2.901500	---	37.69	46.00	8.31	L1	9.69
2.901500	48.29	---	56.00	7.71	L1	9.69



M/N: AOK-40WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-040D057)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Line Under Test: Power Line, Neutral
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

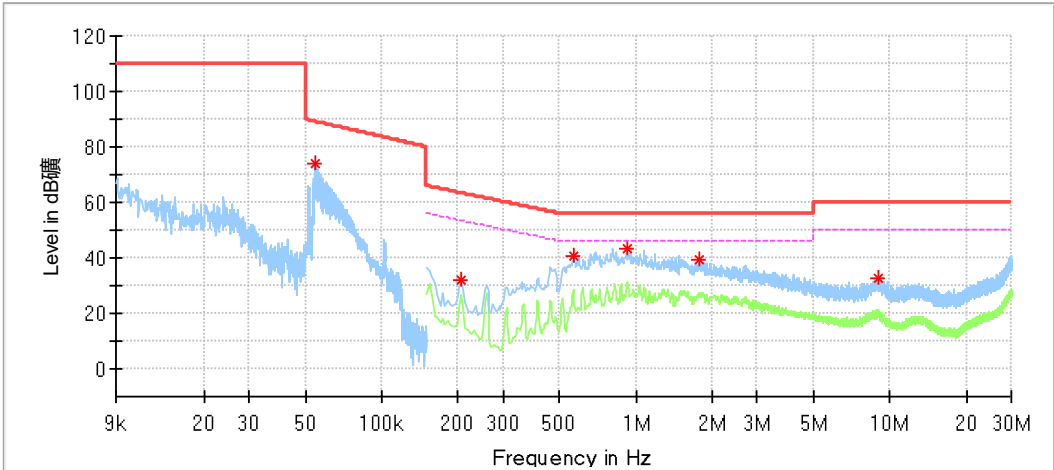
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	49.61	---	66.00	16.39	N	9.56
0.530000	41.07	---	56.00	14.93	N	9.63
0.974000	42.41	---	56.00	13.59	N	9.64
2.030000	44.64	---	56.00	11.36	N	9.66
2.893500	50.06	---	56.00	5.94	N	9.69
3.038000	---	38.03	56.00	17.97	N	9.69
28.130000	46.28	---	60.00	13.72	N	10.07

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
2.893500	---	36.75	46.00	9.25	N	9.69
2.893500	47.87	---	56.00	8.13	N	9.69



M/N: AOK-60WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-060D086)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Line Under Test: Power Line, Live
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.055000	73.68	---	89.13	15.45	L1	9.47
0.206000	31.96	---	63.37	31.40	L1	9.55
0.566000	40.59	---	56.00	15.41	L1	9.60
0.922000	43.59	---	56.00	12.41	L1	9.60
1.786000	39.52	---	56.00	16.48	L1	9.61
8.990000	32.51	---	60.00	27.49	L1	9.92

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---		---



M/N: AOK-60WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-060D086)

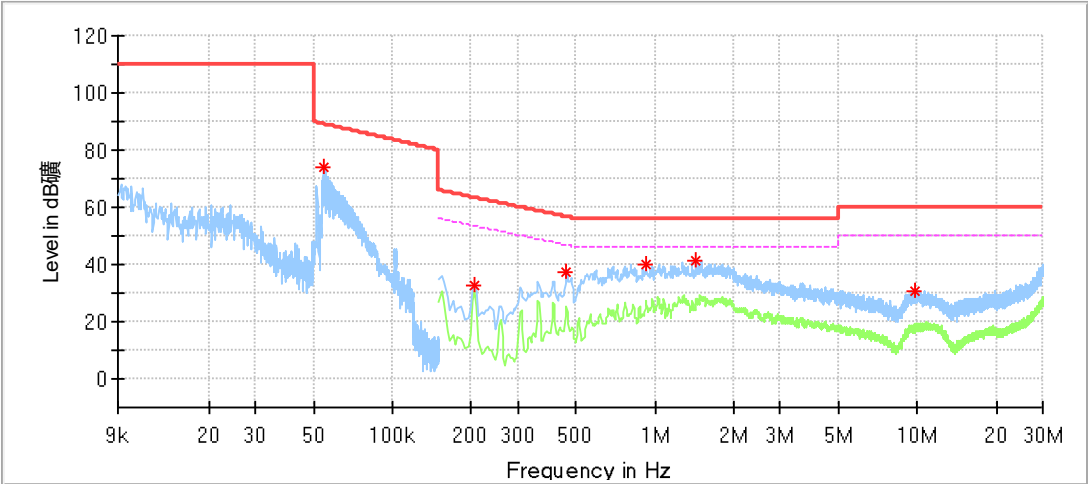
Op Cond.: Lighting

Comment: AC 230V/50Hz

Line Under Test: Power Line, Neutral

Date of Test: 2023-10-08

Detailed results are shown below



Critical_Freqs

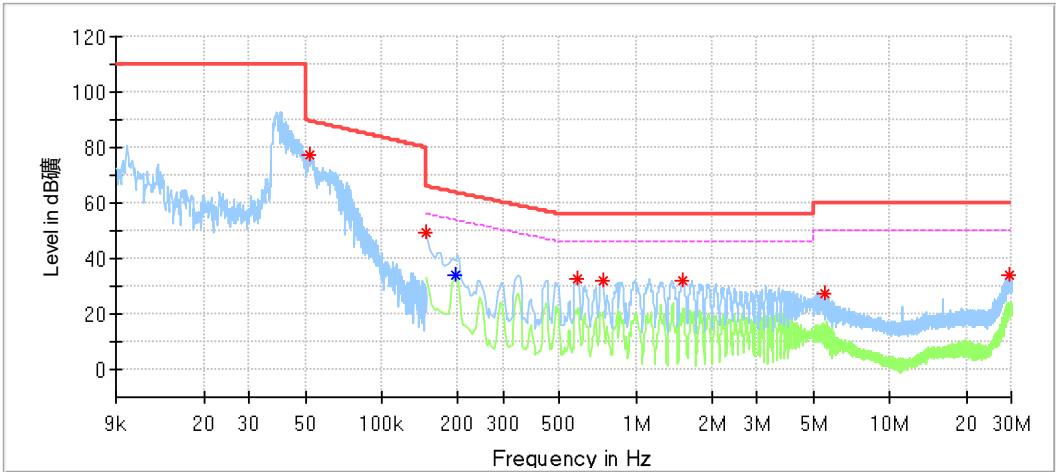
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.055080	74.00	---	89.12	15.12	N	9.52
0.206000	32.66	---	63.37	30.70	N	9.58
0.462000	37.27	---	56.66	19.39	N	9.61
0.922000	39.68	---	56.00	16.32	N	9.63
1.438000	41.38	---	56.00	14.62	N	9.64
9.798000	30.66	---	60.00	29.34	N	9.96

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---		---



M/N: AOK-70WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-75PA-108B)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Line Under Test: Power Line, Live
Date of Test: 2023-10-08
Detailed results are shown below



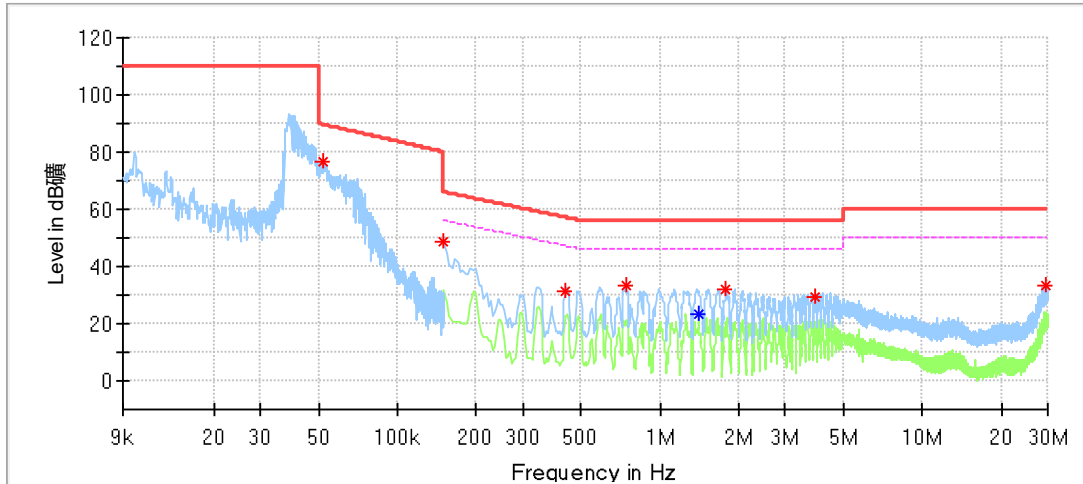
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.051720	77.43	---	89.69	12.26	L1	9.53
0.150000	49.60	---	66.00	16.40	L1	9.57
0.194000	---	34.05	53.86	19.81	L1	9.59
0.590000	32.93	---	56.00	23.07	L1	9.63
0.742000	31.74	---	56.00	24.26	L1	9.64
1.518000	31.93	---	56.00	24.07	L1	9.65
5.498000	27.63	---	60.00	32.37	L1	9.80
29.610000	33.82	---	60.00	26.18	L1	10.02

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---		---

M/N: AOK-70WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-75PA-108B)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Line Under Test: Power Line, Neutral
 Date of Test: 2023-10-08
 Detailed results are shown below



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.052280	76.89	---	89.59	12.70	N	9.51
0.150000	48.61	---	66.00	17.39	N	9.56
0.438000	31.12	---	57.10	25.98	N	9.62
0.742000	33.12	---	56.00	22.88	N	9.64
1.402000	---	23.58	46.00	22.42	N	9.65
1.782000	32.04	---	56.00	23.96	N	9.65
3.926000	29.58	---	56.00	26.42	N	9.73
29.622000	33.59	---	60.00	26.41	N	10.06

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---		---



M/N: AOK-70WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-080D115)

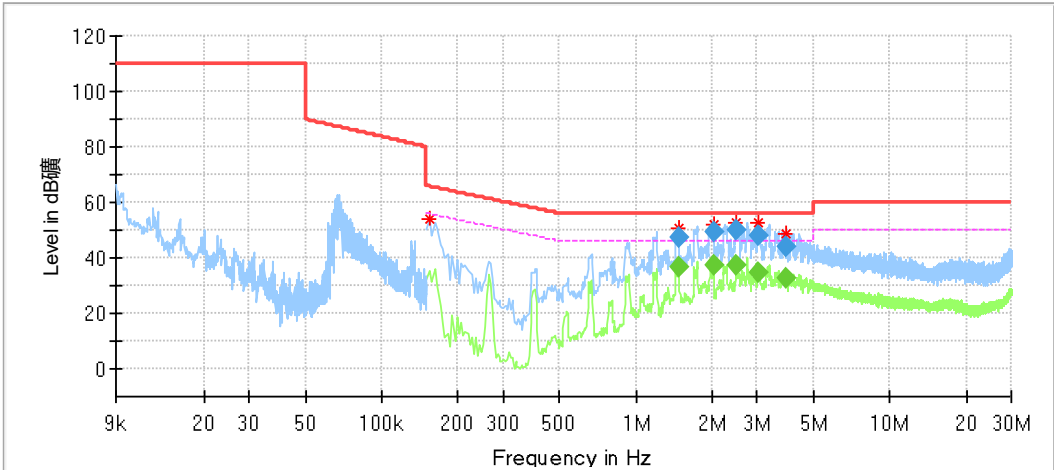
Op Cond.: Lighting

Comment: AC 230V/50Hz

Line Under Test: Power Line, Live

Date of Test: 2023-10-08

Detailed results are shown below



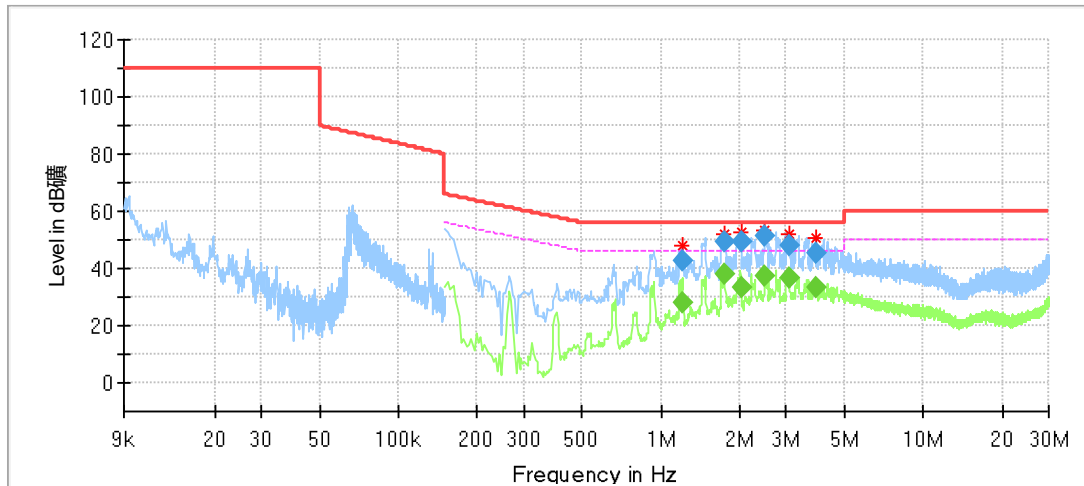
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.154000	54.24	---	65.78	11.54	L1	9.57
1.474500	50.35	---	56.00	5.65	L1	9.65
2.017500	51.79	---	56.00	4.21	L1	9.66
2.482500	52.77	---	56.00	3.23	L1	9.67
3.037500	52.39	---	56.00	3.61	L1	9.69
3.902500	48.44	---	56.00	7.56	L1	9.73

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
1.474500	---	36.76	46.00	9.24	L1	9.65
1.474500	47.55	---	56.00	8.45	L1	9.65
2.017500	---	37.31	46.00	8.69	L1	9.66
2.017500	49.40	---	56.00	6.60	L1	9.66
2.482500	---	37.20	46.00	8.80	L1	9.67
2.482500	49.80	---	56.00	6.20	L1	9.67
3.037500	---	34.92	46.00	11.08	L1	9.69
3.037500	48.06	---	56.00	7.94	L1	9.69
3.902500	---	32.93	46.00	13.07	L1	9.73
3.902500	44.13	---	56.00	11.87	L1	9.73

M/N: AOK-70WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-080D115)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Line Under Test: Power Line, Neutral
 Date of Test: 2023-10-08
 Detailed results are shown below



Critical_Freqs

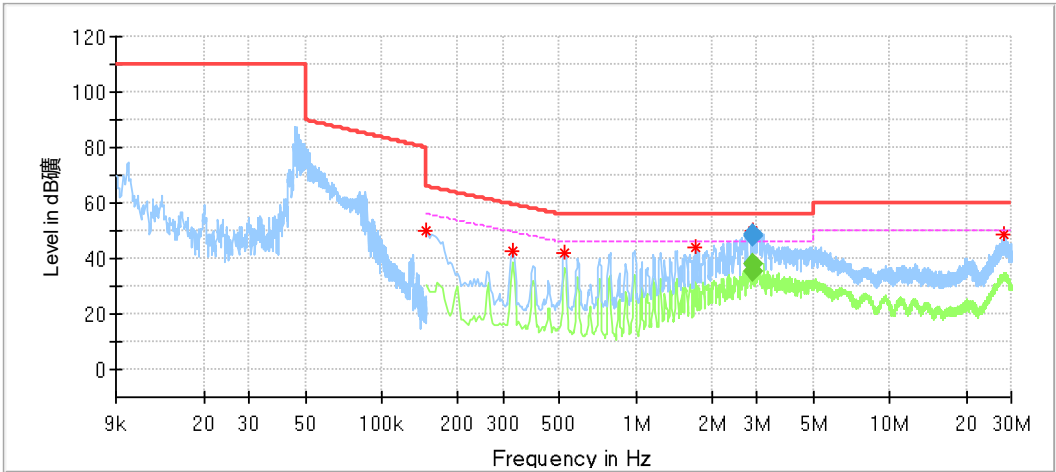
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
1.218500	48.12	---	56.00	7.88	N	9.64
1.749500	52.20	---	56.00	3.80	N	9.65
2.026500	52.65	---	56.00	3.35	N	9.66
2.477500	53.64	---	56.00	2.36	N	9.67
3.093500	51.97	---	56.00	4.03	N	9.70
3.910500	50.95	---	56.00	5.05	N	9.73

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
1.218500	---	27.74	46.00	18.26	N	9.64
1.218500	42.72	---	56.00	13.28	N	9.64
1.749500	---	38.04	46.00	7.96	N	9.65
1.749500	49.50	---	56.00	6.50	N	9.65
2.026500	---	33.50	46.00	12.50	N	9.66
2.026500	49.39	---	56.00	6.61	N	9.66
2.477500	---	37.31	46.00	8.69	N	9.67
2.477500	51.03	---	56.00	4.97	N	9.67
3.093500	---	36.45	46.00	9.55	N	9.70
3.093500	48.23	---	56.00	7.77	N	9.70
3.910500	---	33.62	46.00	12.38	N	9.73
3.910500	45.57	---	56.00	10.43	N	9.73



M/N: AOK-100WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-110PA-160B)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Line Under Test: Power Line, Live
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

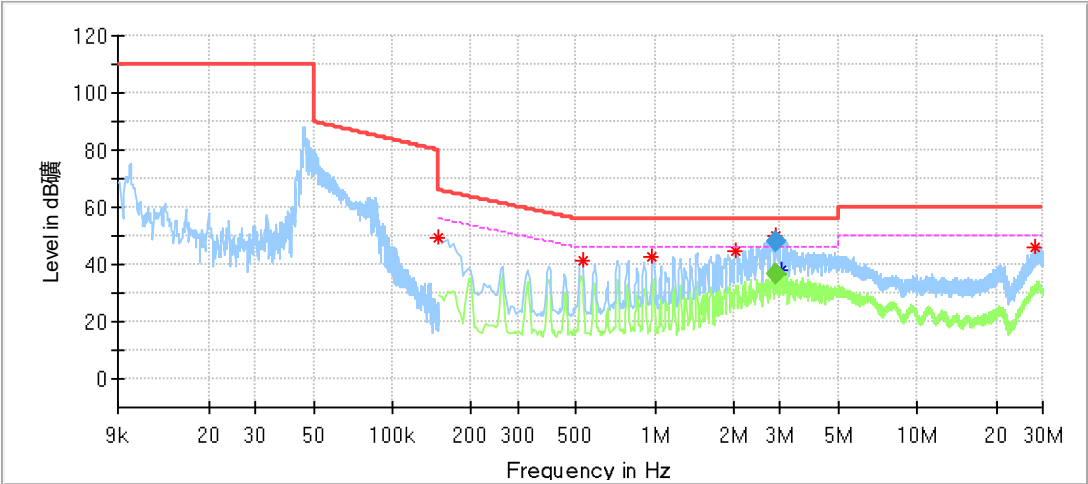
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.150000	50.05	---	66.00	15.95	L1	9.57
0.330000	42.58	---	59.45	16.87	L1	9.61
0.526000	41.90	---	56.00	14.10	L1	9.63
1.718000	44.23	---	56.00	11.77	L1	9.65
2.889500	50.32	---	56.00	5.68	L1	9.69
2.901500	---	38.66	46.00	7.34	L1	9.69
28.286000	49.00	---	60.00	11.00	L1	10.03

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
2.889500	---	35.50	46.00	10.50	L1	9.69
2.889500	48.56	---	56.00	7.44	L1	9.69
2.901500	---	37.69	46.00	8.31	L1	9.69
2.901500	48.29	---	56.00	7.71	L1	9.69



M/N: AOK-100WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-110PA-160B)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Line Under Test: Power Line, Neutral
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

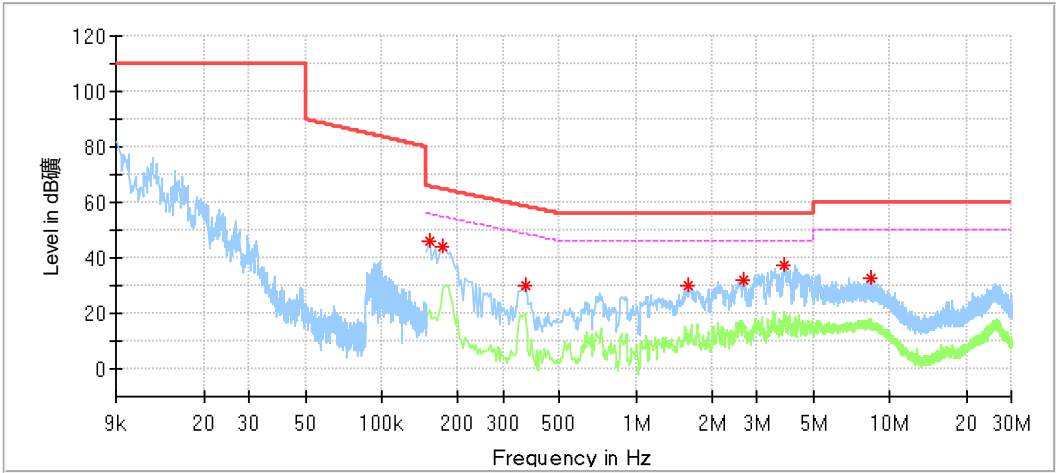
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	49.61	---	66.00	16.39	N	9.56
0.530000	41.07	---	56.00	14.93	N	9.63
0.974000	42.41	---	56.00	13.59	N	9.64
2.030000	44.64	---	56.00	11.36	N	9.66
2.893500	50.06	---	56.00	5.94	N	9.69
3.038000	---	38.03	56.00	17.97	N	9.69
28.130000	46.28	---	60.00	13.72	N	10.07

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
2.893500	---	36.75	46.00	9.25	N	9.69
2.893500	47.87	---	56.00	8.13	N	9.69



M/N: AOK-120WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-120D172)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Line Under Test: Power Line, Live
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

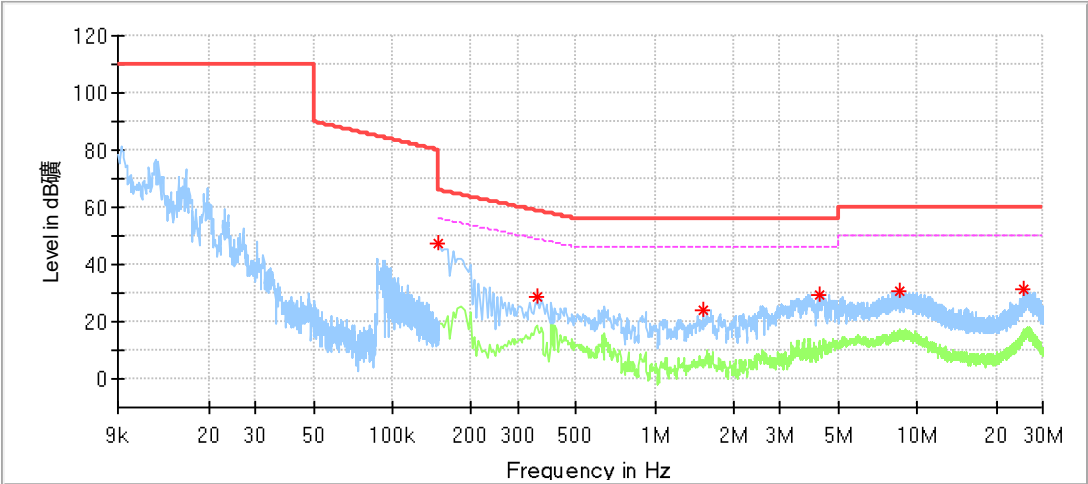
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.154000	45.75	---	65.78	20.03	L1	9.52
0.174000	43.96	---	64.77	20.80	L1	9.54
0.366000	29.76	---	58.59	28.83	L1	9.57
1.618000	30.17	---	56.00	25.83	L1	9.61
2.646000	32.03	---	56.00	23.97	L1	9.64
3.830000	37.16	---	56.00	18.84	L1	9.69
8.378000	32.41	---	60.00	27.59	L1	9.90

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---		---



M/N: AOK-120WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-120D172)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Line Under Test: Power Line, Neutral
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

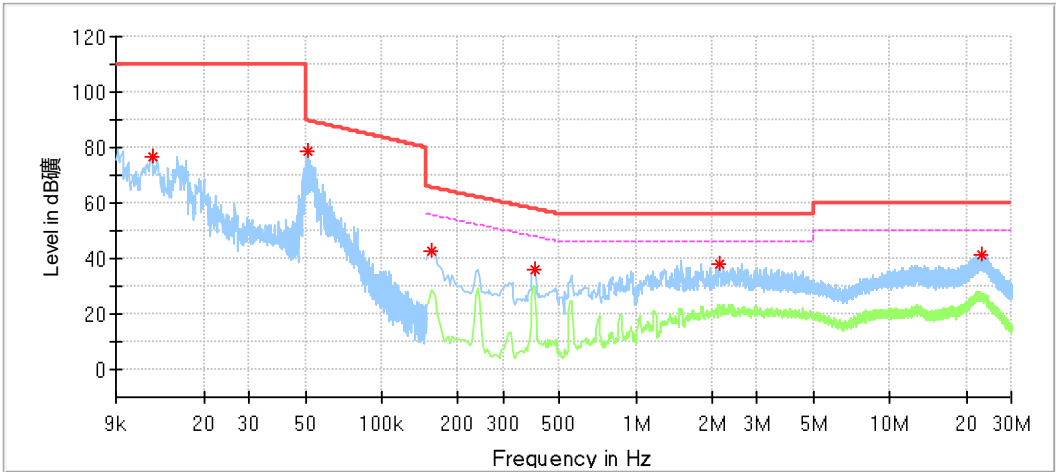
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	47.44	---	66.00	18.56	N	9.55
0.358000	28.90	---	58.78	29.88	N	9.61
1.526000	24.27	---	56.00	31.73	N	9.64
4.230000	29.20	---	56.00	26.80	N	9.74
8.514000	30.85	---	60.00	29.15	N	9.92
25.502000	31.44	---	60.00	28.56	N	9.93

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---		---



M/N: AOK-150WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-165PA-235B)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Line Under Test: Power Line, Live
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.012520	76.90	---	110.00	33.10	L1	9.81
0.051320	78.78	---	89.76	10.98	L1	9.47
0.158000	42.99	---	65.57	22.58	L1	9.53
0.398000	35.91	---	57.90	21.99	L1	9.58
2.118000	37.91	---	56.00	18.09	L1	9.62
23.062000	41.24	---	60.00	18.76	L1	10.05

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---		---



M/N: AOK-150WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-165PA-235B)

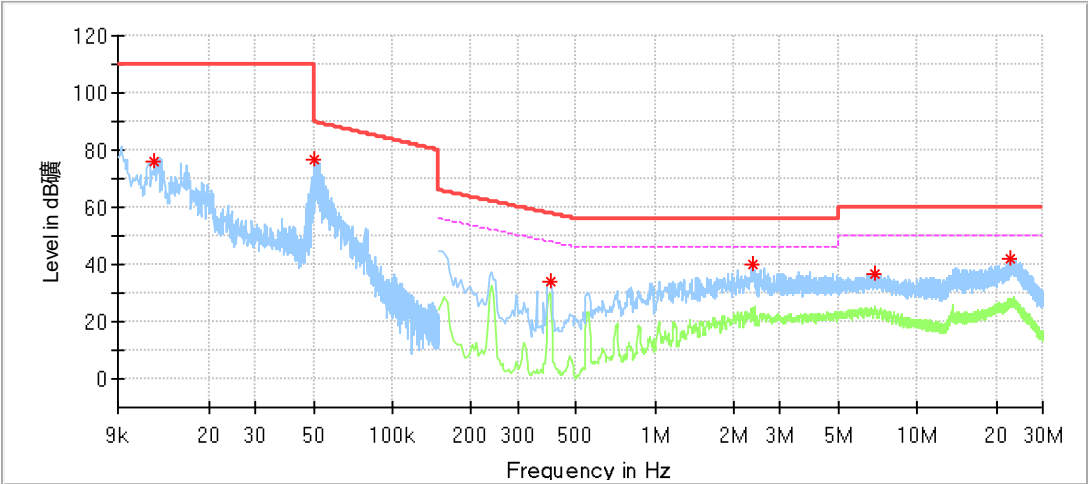
Op Cond.: Lighting

Comment: AC 230V/50Hz

Line Under Test: Power Line, Neutral

Date of Test: 2023-10-08

Detailed results are shown below



Critical_Freqs

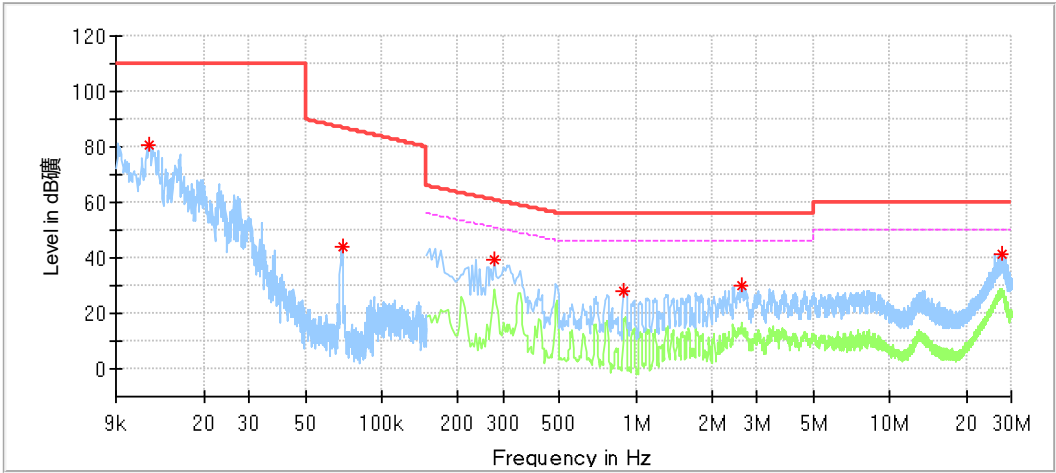
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.012440	76.31	---	110.00	33.69	N	10.06
0.050680	76.34	---	89.88	13.54	N	9.52
0.402000	34.29	---	57.81	23.52	N	9.61
2.366000	39.87	---	56.00	16.13	N	9.66
6.934000	37.00	---	60.00	23.00	N	9.86
22.690000	42.12	---	60.00	17.88	N	9.96

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---		---



M/N: AOK-150WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-165D236)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Line Under Test: Power Line, Live
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.012120	80.65	---	110.00	29.35	L1	9.82
0.070200	43.84	---	86.91	43.07	L1	9.47
0.278000	39.03	---	60.88	21.84	L1	9.56
0.902000	27.96	---	56.00	28.04	L1	9.60
2.602000	30.05	---	56.00	25.95	L1	9.64
27.562000	41.64	---	60.00	18.36	L1	10.03

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---		---



M/N: AOK-150WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-165D236)

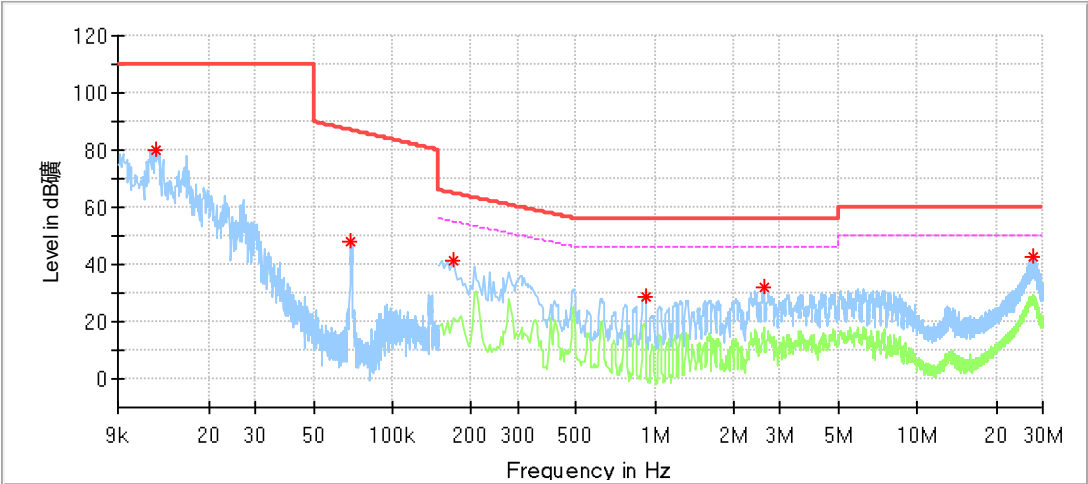
Op Cond.: Lighting

Comment: AC 230V/50Hz

Line Under Test: Power Line, Neutral

Date of Test: 2023-10-08

Detailed results are shown below



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.012520	80.07	---	110.00	29.93	N	10.06
0.069080	47.80	---	87.06	39.26	N	9.51
0.170000	41.09	---	64.96	23.87	N	9.57
0.918000	28.82	---	56.00	27.18	N	9.63
2.598000	31.95	---	56.00	24.05	N	9.67
27.498000	42.59	---	60.00	17.41	N	9.91

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---		---



M/N: AOK-180WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-200D286)

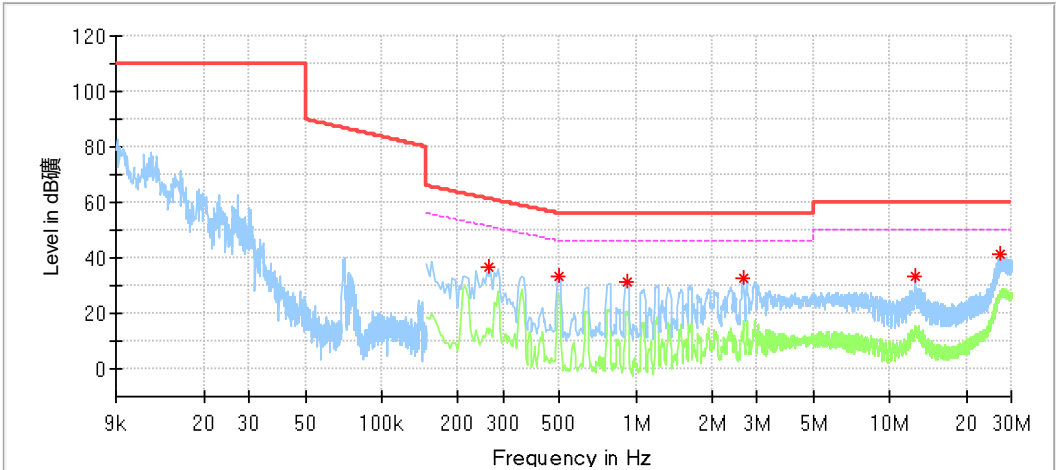
Op Cond.: Lighting

Comment: AC 230V/50Hz

Line Under Test: Power Line, Live

Date of Test: 2023-10-08

Detailed results are shown below



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.266000	36.79	---	61.24	24.46	L1	9.56
0.502000	33.03	---	56.00	22.97	L1	9.59
0.926000	31.66	---	56.00	24.34	L1	9.60
2.662000	32.80	---	56.00	23.20	L1	9.64
12.542000	33.07	---	60.00	26.93	L1	9.98
27.230000	41.42	---	60.00	18.58	L1	10.03

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---		---



M/N: AOK-180WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-200D286)

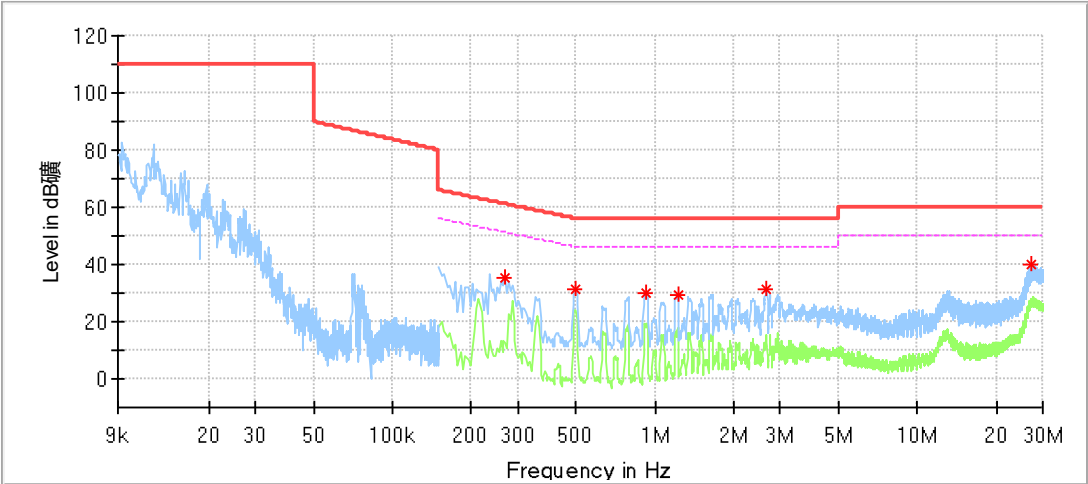
Op Cond.: Lighting

Comment: AC 230V/50Hz

Line Under Test: Power Line, Neutral

Date of Test: 2023-10-08

Detailed results are shown below

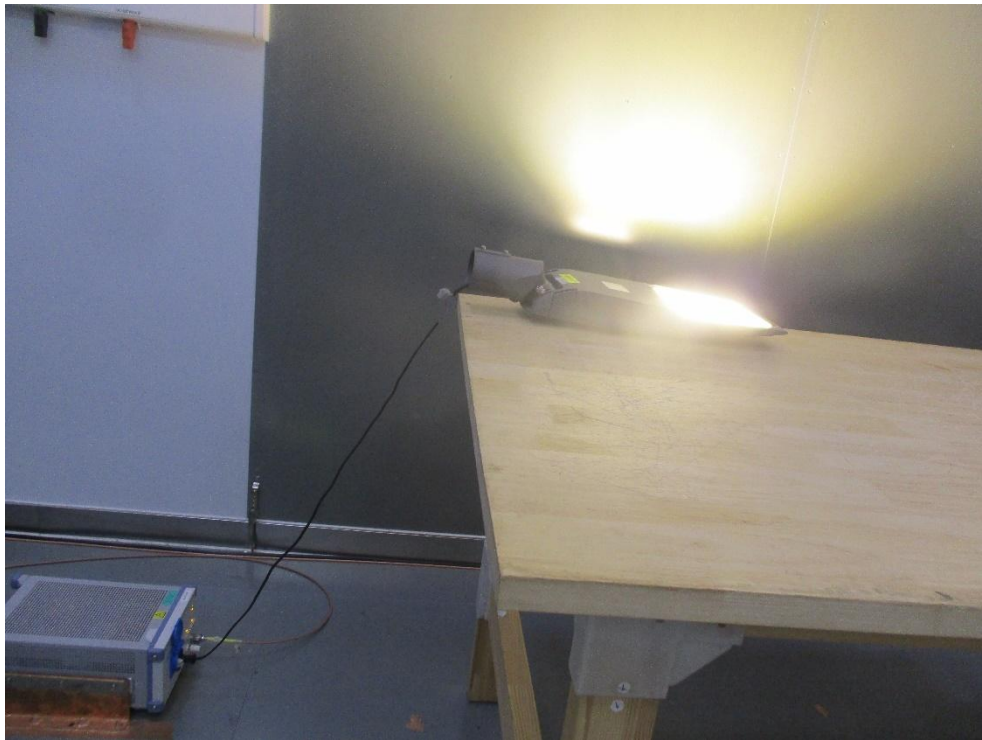


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.270000	35.30	---	61.12	25.82	N	9.59
0.502000	31.08	---	56.00	24.92	N	9.62
0.930000	30.09	---	56.00	25.91	N	9.63
1.222000	29.53	---	56.00	26.47	N	9.63
2.674000	31.00	---	56.00	25.00	N	9.67
26.974000	39.86	---	60.00	20.14	N	9.91

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---		---



Test Setup

2.1.8 Test Location

This test was carried out in conducted emission shielded room.

2.2 Radiated Disturbance (9KHz to 30MHz)

2.2.1 Specification Reference

EN IEC 55015:2019+A11:2020, Clause 4.5.2

2.2.2 Equipment Under Test

AOK-20WiLA-NV-L3-00-6570-T2-P, AOK-40WiLA-NV-L3-00-6570-T2-P, AOK-60WiLA-NV-L3-00-6570-T2-P, AOK-70WiLA-NV-L3-00-6570-T2-P, AOK-100WiLA-NV-L3-00-6570-T2-P, AOK-120WiLA-NV-L3-00-6570-T2-P, AOK-150WiLA-NV-L3-00-6570-T2-P and AOK-180WiLA-NV-L3-00-6570-T2-P

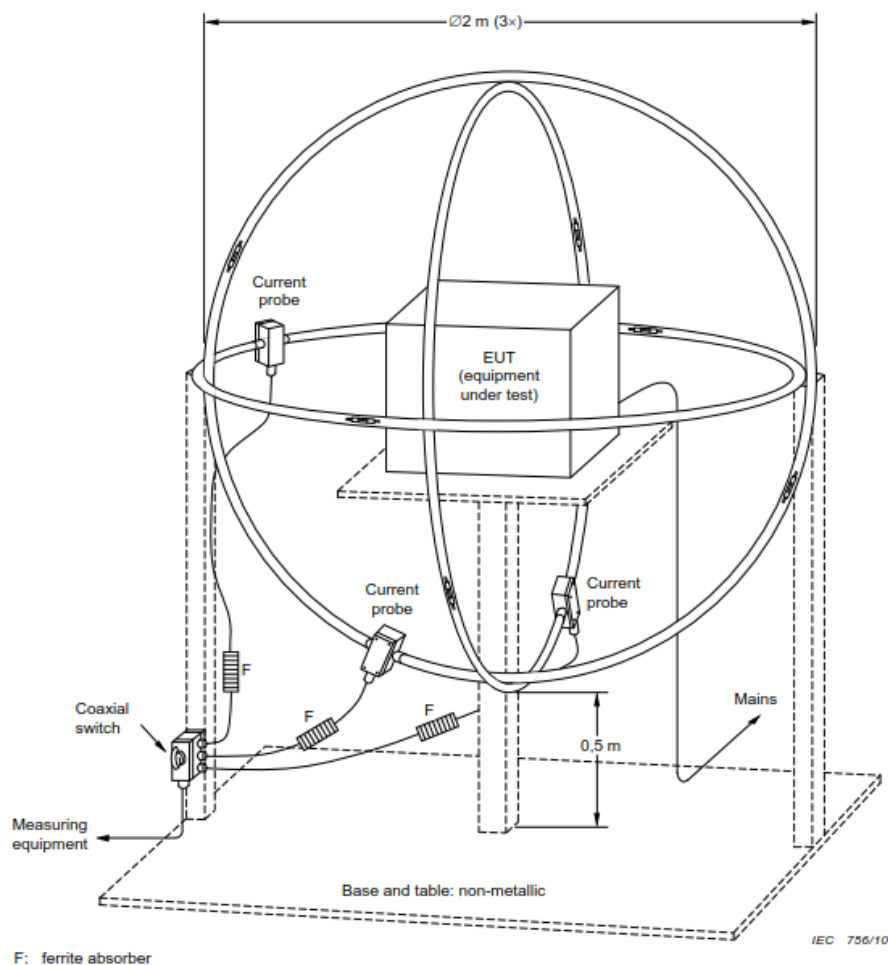
2.2.3 Date of Test

2023-10-08

2.2.4 Test Method

The magnetic component shall be measured by means of a loop antenna. The lighting equipment shall be placed in the center of the antenna.

The induced current in the loop antenna is measured by means of a current probe and the CISPR measuring receiver. By means of a coaxial switch, the three field directions can be measured in sequence.



2.2.5 Environmental Conditions

Ambient Temperature	23.3 °C
Relative Humidity	54.4 %
Atmospheric Pressure	1011.0 mbar

2.2.6 Specification Limits

Radiated disturbance limits in the frequency range 9kHz to 30MHz			
Frequency range	Limits dB(μA) for loop diameter		
	2 m	3 m	4 m
9kHz to 70kHz	88	81	75
70kHz to 150kHz	88 to 58	81 to 51	75 to 45
150kHz to 3.0MHz	58 to 22	51 to 15	45 to 9
3.0MHz to 30MHz	22	15 to 16	9 to 12

Remark:

For Below 1GHz:

Level=Reading Level + Correction Factor

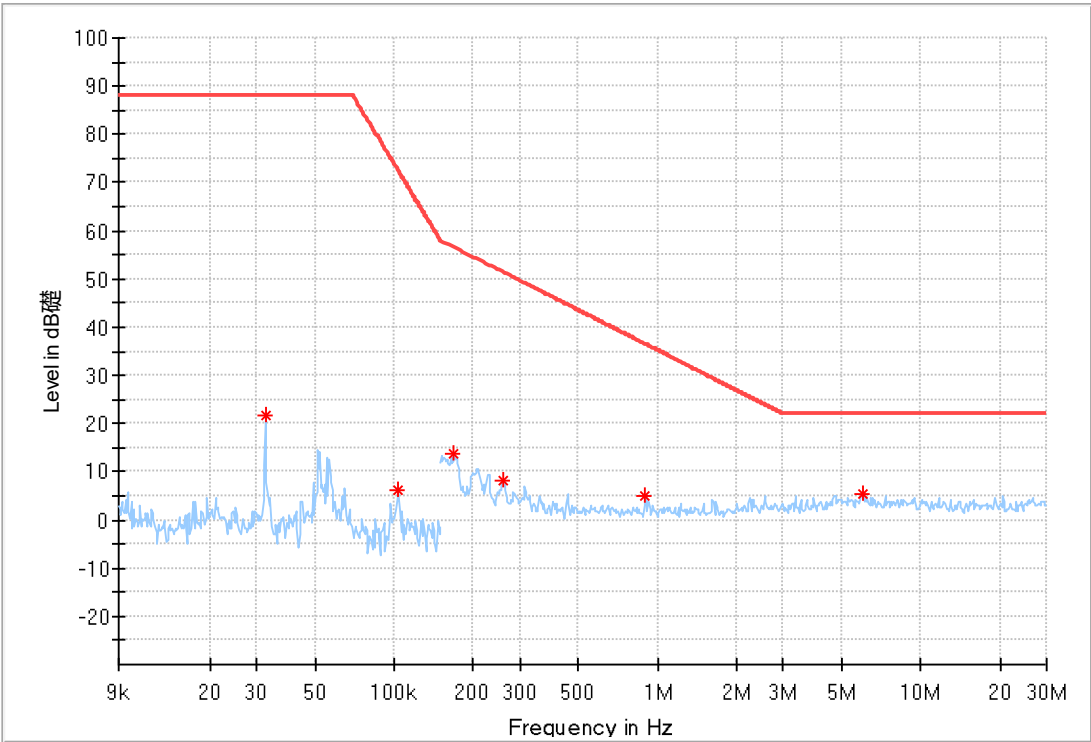
Correction Factor=Antenna Factor + Cable Loss

(The Reading Level is recorded by software which is not shown in the sheet)



2.2.7 Test Results

M/N: AOK-20WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-22PA-32B)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: X
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµA)	Limit (dBµA)	Margin (dB)	Axis	Corr. (dB)
0.032486	21.76	88.00	66.24	X	6.01
0.104064	6.02	72.39	66.37	X	6.01
0.169024	13.75	56.57	42.81	X	6.01
0.259279	8.03	51.42	43.40	X	6.01
0.899371	5.12	36.48	31.36	X	6.02
6.016186	5.19	22.00	16.81	X	6.09

Final_Result

Frequency (MHz)	QuasiPeak (dBµA)	Limit (dBµA)	Margin (dB)	Axis	Corr. (dB)
---	---	---	---		---



M/N: AOK-20WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-22PA-32B)

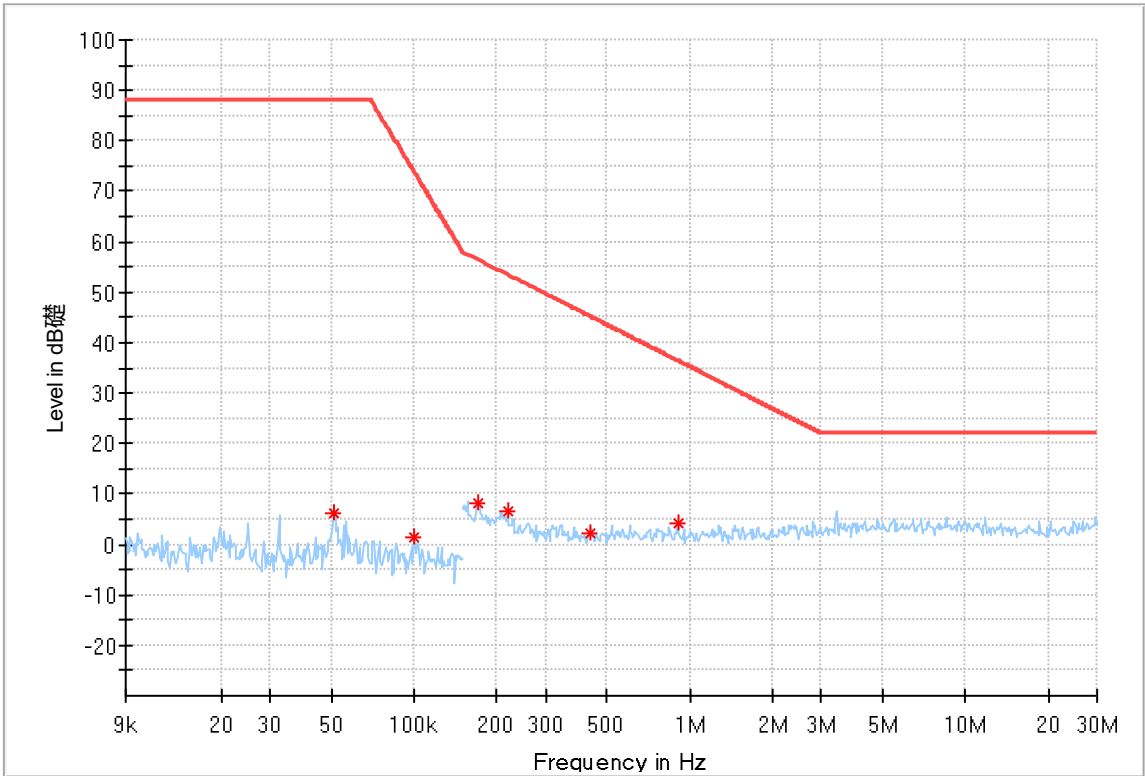
Op Cond.: Lighting

Comment: AC 230V/50Hz

Test Spec.: Y

Date of Test: 2023-10-08

Detailed results are shown below



Critical_Freqs

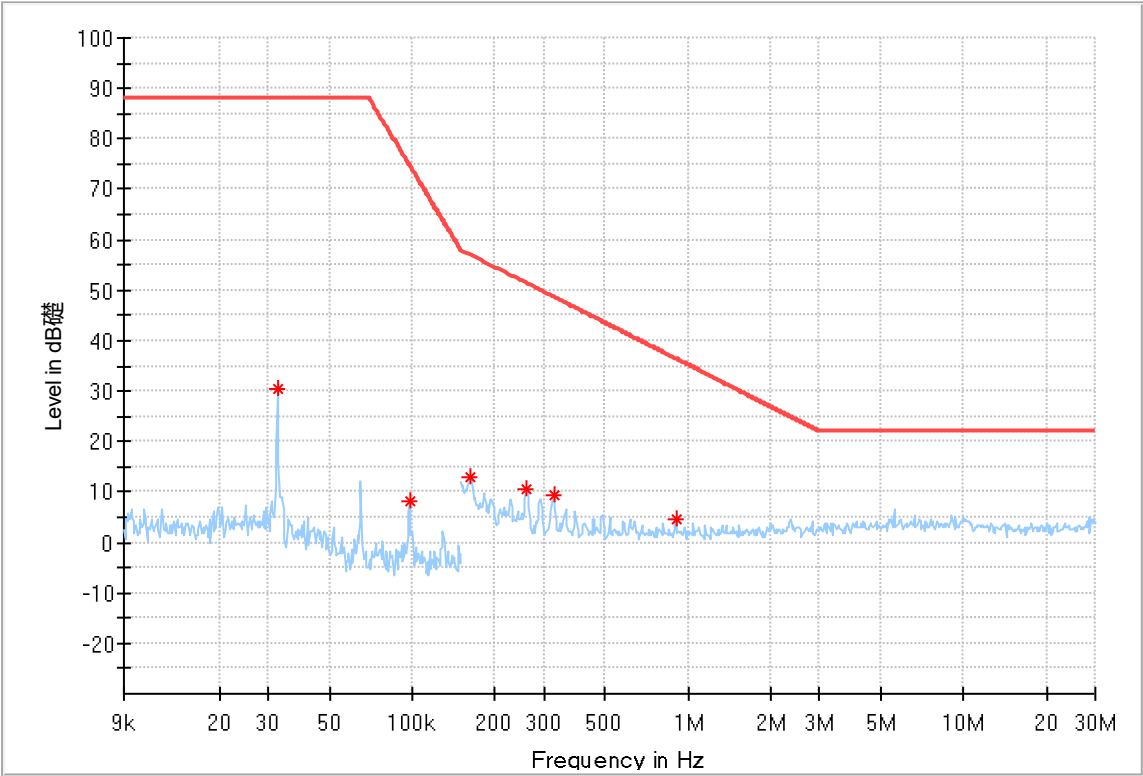
Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.051343	6.28	88.00	81.72	Y	6.01
0.100003	1.41	73.96	72.55	Y	6.01
0.170714	8.04	56.45	48.41	Y	6.01
0.218929	6.39	53.46	47.07	Y	6.01
0.434989	2.25	45.21	42.96	Y	6.02
0.908365	4.25	36.36	32.11	Y	6.02

Final_Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
---	---	---	---		---



M/N: AOK-20WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-22PA-32B)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: Z
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

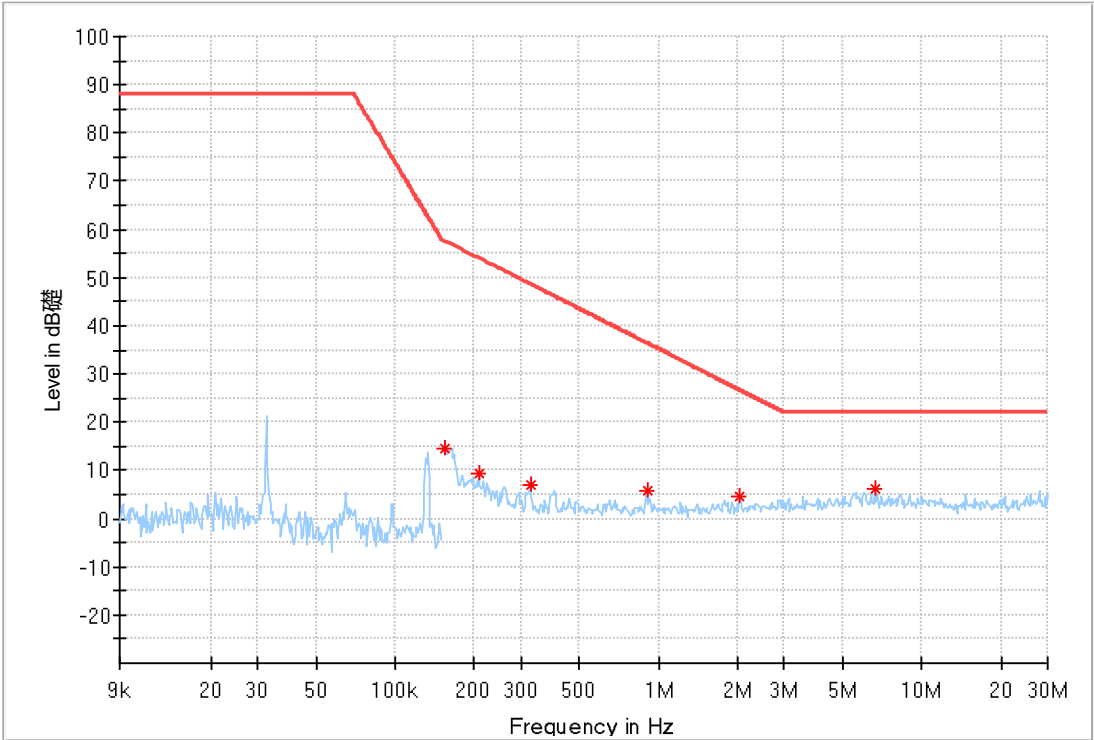
Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.032486	30.38	88.00	57.62	Z	6.01
0.098033	8.34	74.74	66.41	Z	6.01
0.162429	12.97	57.04	44.07	Z	6.01
0.259279	10.67	51.42	40.76	Z	6.01
0.325956	9.56	48.67	39.12	Z	6.02
0.908365	4.71	36.36	31.65	Z	6.02

Final_Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
---	---	---	---		---



M/N: AOK-20WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-026D038)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: X
Date of Test: 2023-10-08
Detailed results are shown below



Critical Freqs

Frequency (MHz)	MaxPeak (dBµA)	Limit (dBµA)	Margin (dB)	Axis	Corr. (dB)
0.154545	14.37	57.64	43.28	X	6.01
0.208304	9.37	54.05	44.68	X	6.01
0.325956	6.92	48.67	41.75	X	6.02
0.908365	5.74	36.36	30.62	X	6.02
2.033722	4.47	26.67	22.20	X	6.04
6.645612	6.18	22.00	15.82	X	6.10

Final Result

Frequency (MHz)	QuasiPeak (dBµA)	Limit (dBµA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-20WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-026D038)

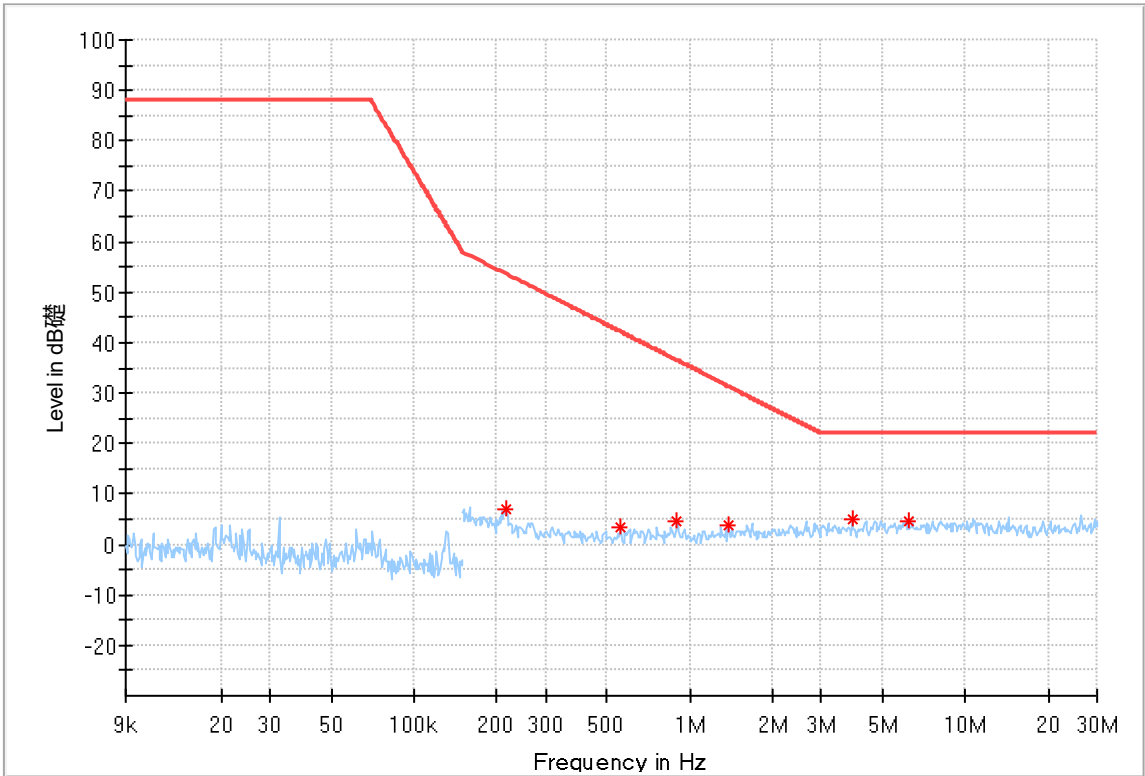
Op Cond.: Lighting

Comment: AC 230V/50Hz

Test Spec.: Y

Date of Test: 2023-10-08

Detailed results are shown below



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.216762	6.87	53.58	46.71	Y	6.01
0.563423	3.38	42.10	38.71	Y	6.02
0.899371	4.47	36.48	32.01	Y	6.02
1.393411	3.85	31.22	27.36	Y	6.03
3.883120	4.92	22.00	17.08	Y	6.06
6.198482	4.48	22.00	17.52	Y	6.09

Final_Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-20WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-026D038)

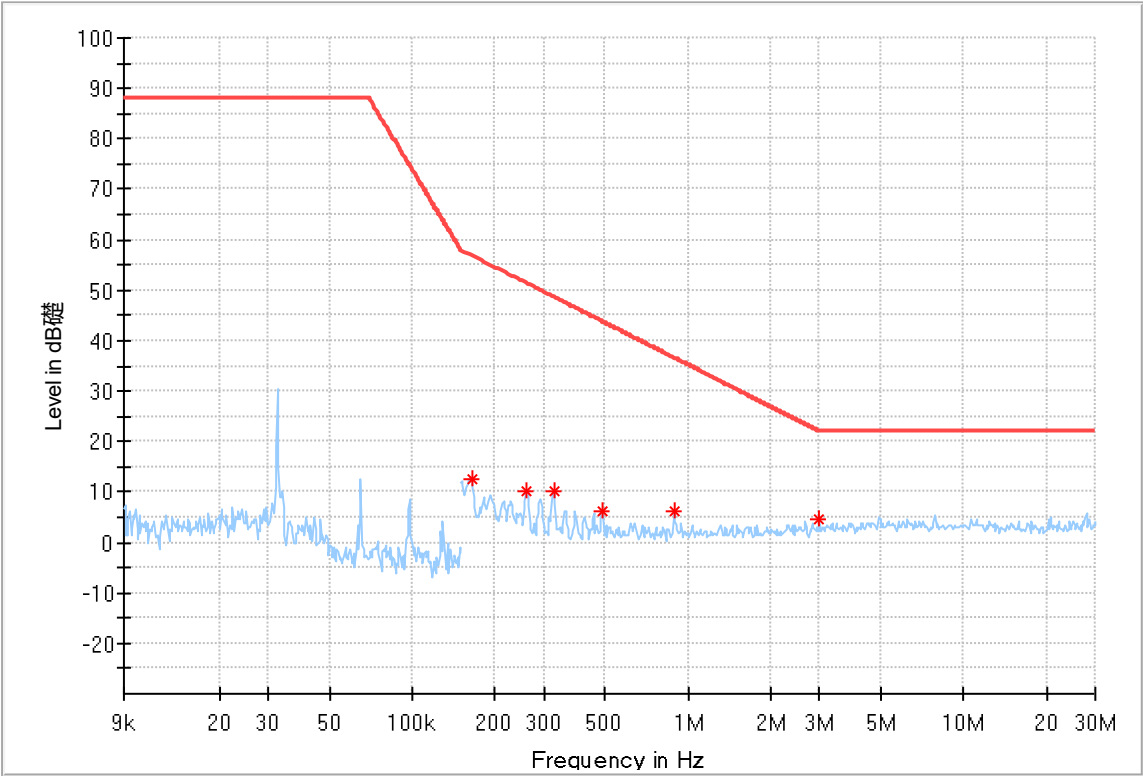
Op Cond.: Lighting

Comment: AC 230V/50Hz

Test Spec.: Z

Date of Test: 2023-10-08

Detailed results are shown below



Critical_Freqs

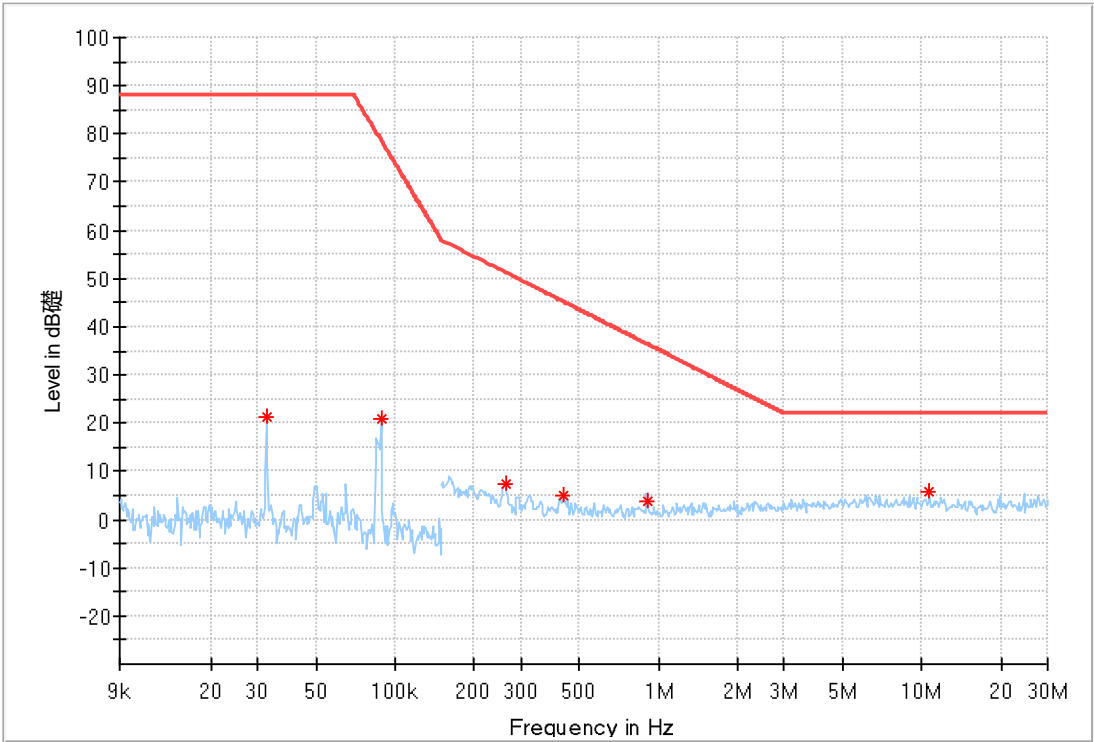
Frequency (MHz)	MaxPeak (dBµA)	Limit (dBµA)	Margin (dB)	Axis	Corr. (dB)
0.164053	12.57	56.92	44.35	Z	6.01
0.259279	10.20	51.42	41.22	Z	6.01
0.325956	10.00	48.67	38.67	Z	6.02
0.490157	5.99	43.77	37.78	Z	6.02
0.890466	6.23	36.60	30.36	Z	6.02
2.997955	4.40	22.01	17.61	Z	6.05

Final Result

Frequency (MHz)	QuasiPeak (dBµA)	Limit (dBµA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-40WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-40PA-54B)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: X
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

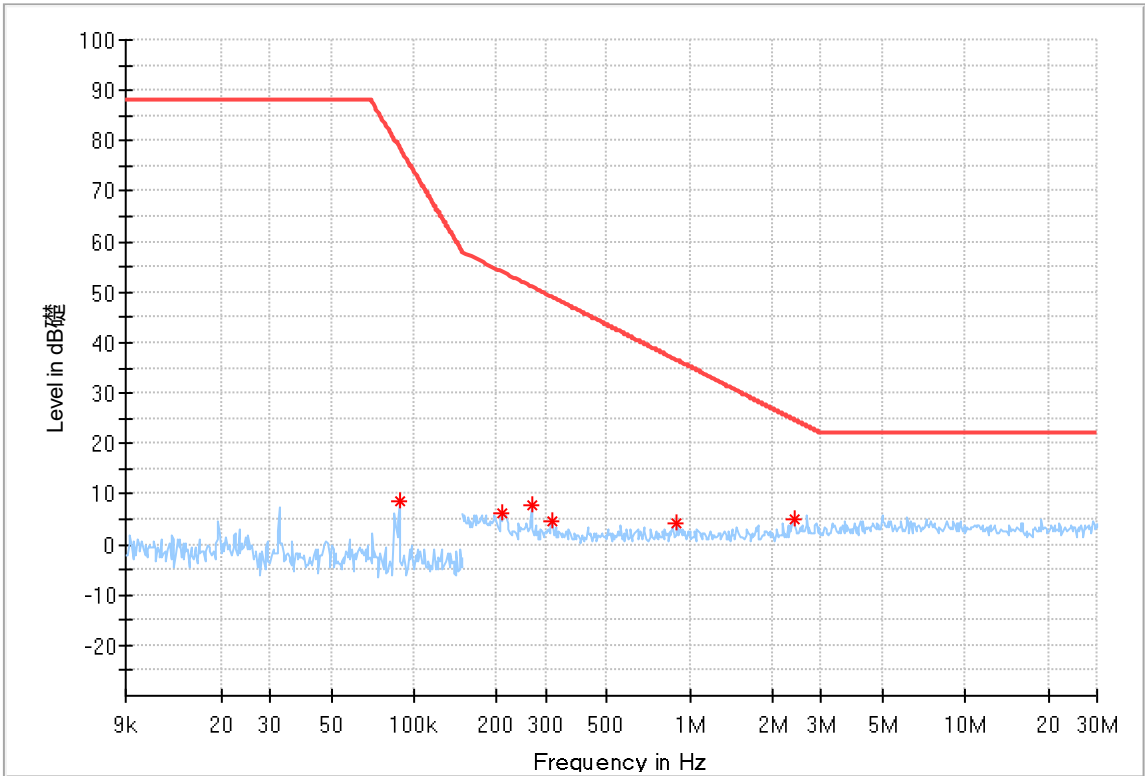
Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.032486	21.40	88.00	66.60	X	6.01
0.088748	20.74	78.66	57.92	X	6.01
0.261872	7.30	51.30	44.00	X	6.01
0.439339	4.88	45.09	40.21	X	6.02
0.908365	3.96	36.36	32.40	X	6.02
10.714228	5.72	22.00	16.28	X	6.12

Final_Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-40WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-40PA-54B)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: Y
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.088748	8.54	78.66	70.12	Y	6.01
0.210387	6.15	53.93	47.79	Y	6.01
0.267135	7.63	51.07	43.44	Y	6.01
0.319533	4.71	48.91	44.20	Y	6.02
0.899371	4.38	36.48	32.09	Y	6.02
2.384698	4.96	24.76	19.79	Y	6.04

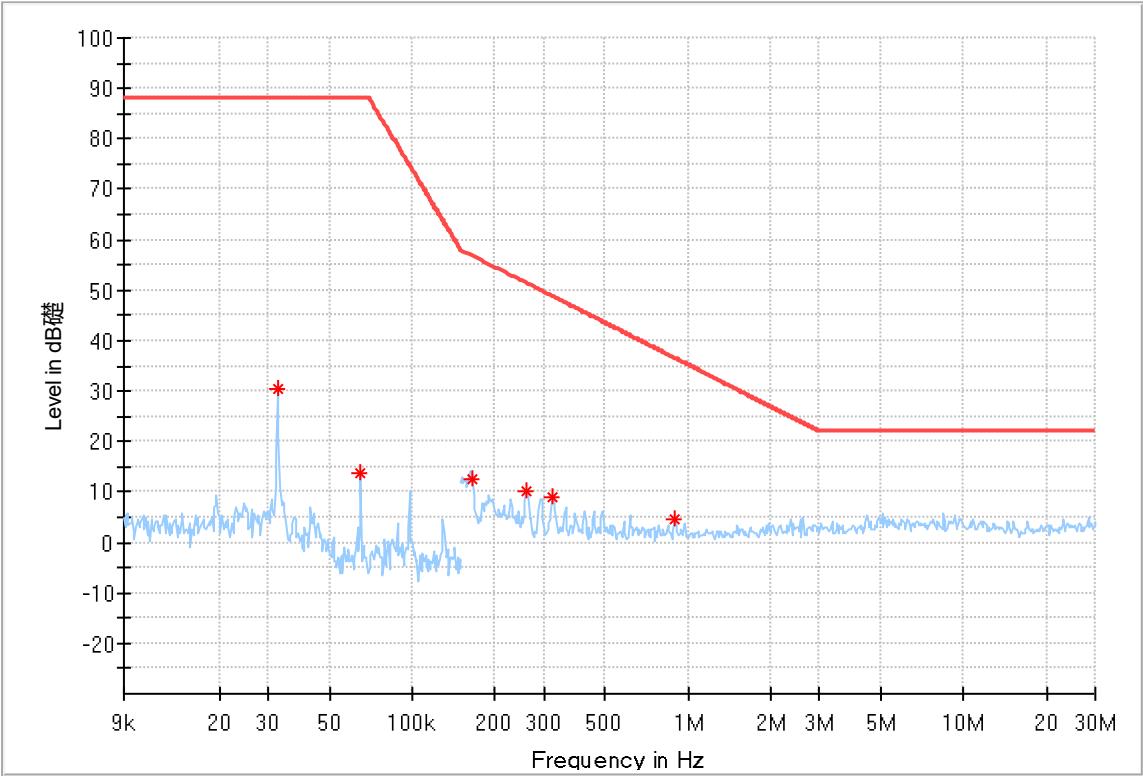
Final_Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
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M/N:
Op Cond.:
Comment:
Test Spec.:
Date of Test:
Detailed results are shown below

AOK-40WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-40PA-54B)
Lighting
AC 230V/50Hz
Z
2023-10-08



Critical_Freqs

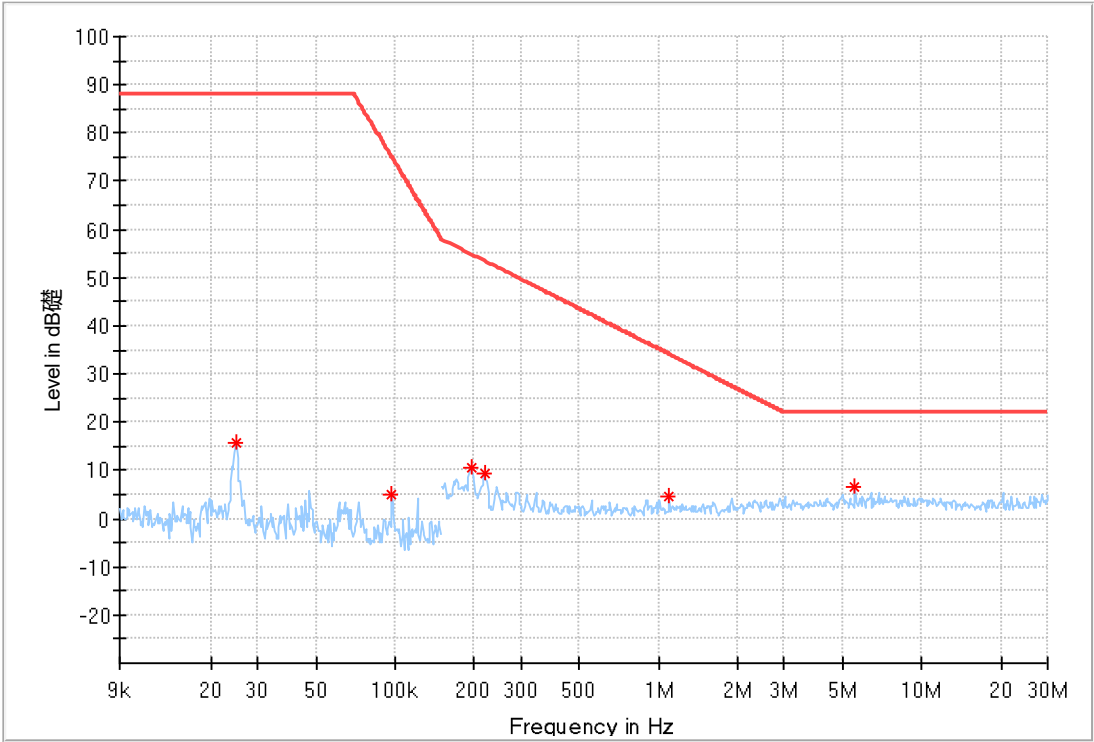
Frequency (MHz)	MaxPeak (dBµA)	Limit (dBµA)	Margin (dB)	Axis	Corr. (dB)
0.032486	30.24	88.00	57.76	Z	6.01
0.065192	13.91	88.00	74.09	Z	6.01
0.165693	12.38	56.80	44.43	Z	6.01
0.259279	10.28	51.42	41.14	Z	6.01
0.322729	8.85	48.79	39.95	Z	6.02
0.899371	4.56	36.48	31.92	Z	6.02

Final_Result

Frequency (MHz)	QuasiPeak (dBµA)	Limit (dBµA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-40WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-040D057)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: X
Date of Test: 2023-10-08
Detailed results are shown below



Critical Freqs

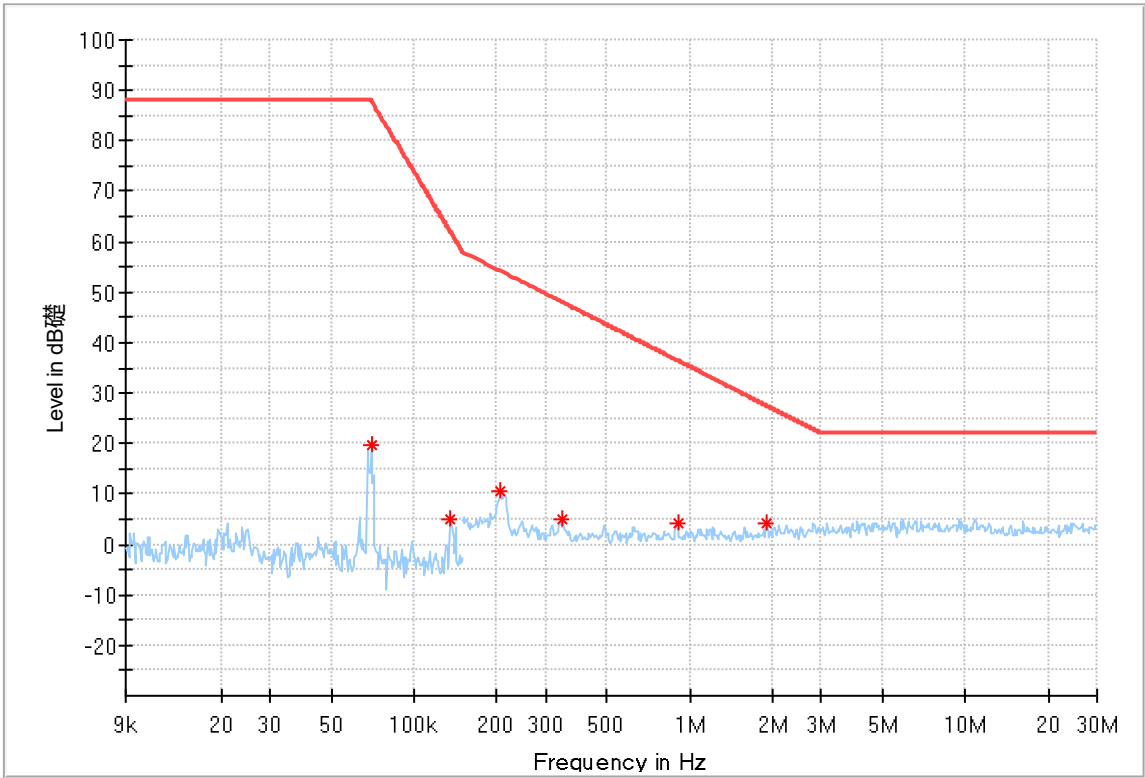
Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.025081	15.66	88.00	72.34	X	6.01
0.097062	5.08	75.13	70.05	X	6.01
0.194289	10.53	54.89	44.36	X	6.01
0.218929	9.43	53.46	44.03	X	6.01
1.097403	4.74	34.09	29.35	X	6.02
5.555846	6.43	22.00	15.57	X	6.08

Final Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-40WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-040D057)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: Y
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

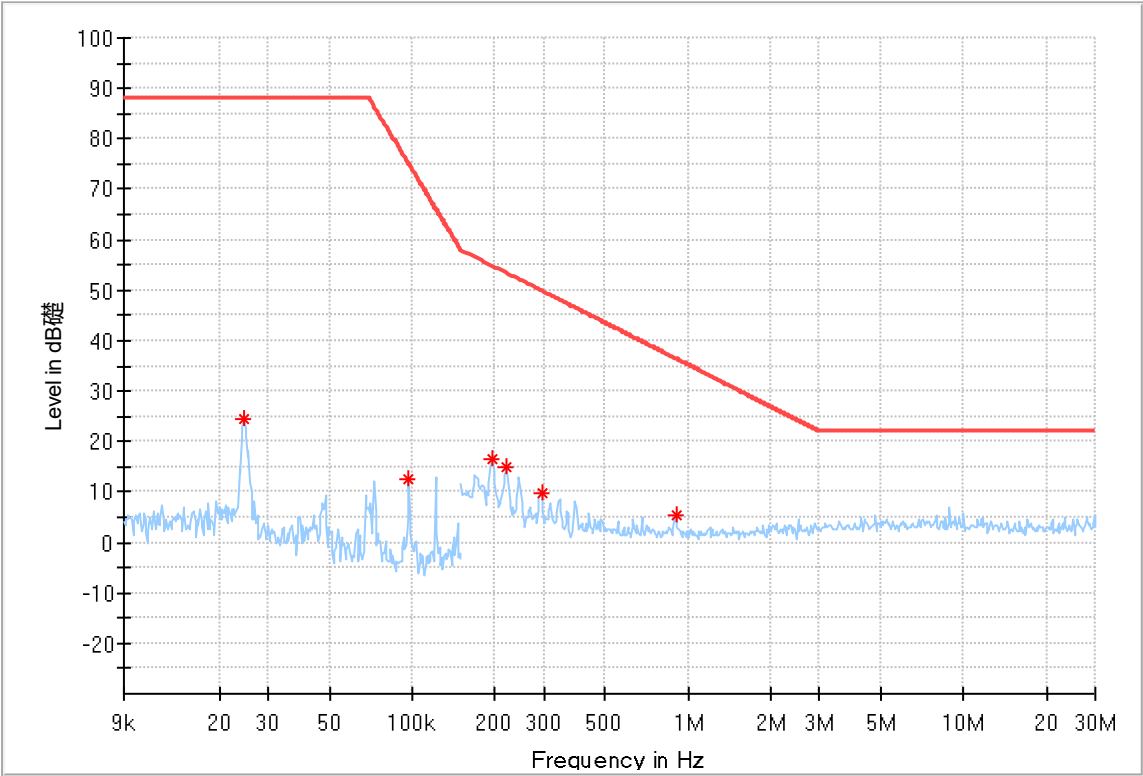
Frequency (MHz)	MaxPeak (dBµA)	Limit (dBµA)	Margin (dB)	Axis	Corr. (dB)
0.069895	19.75	88.00	68.25	Y	6.01
0.136137	5.16	61.82	56.66	Y	6.01
0.206241	10.36	54.17	43.81	Y	6.01
0.346009	4.88	47.96	43.08	Y	6.02
0.908365	4.21	36.36	32.14	Y	6.02
1.896889	4.11	27.51	23.40	Y	6.04

Final_Result

Frequency (MHz)	QuasiPeak (dBµA)	Limit (dBµA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-40WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-040D057)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: Z
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

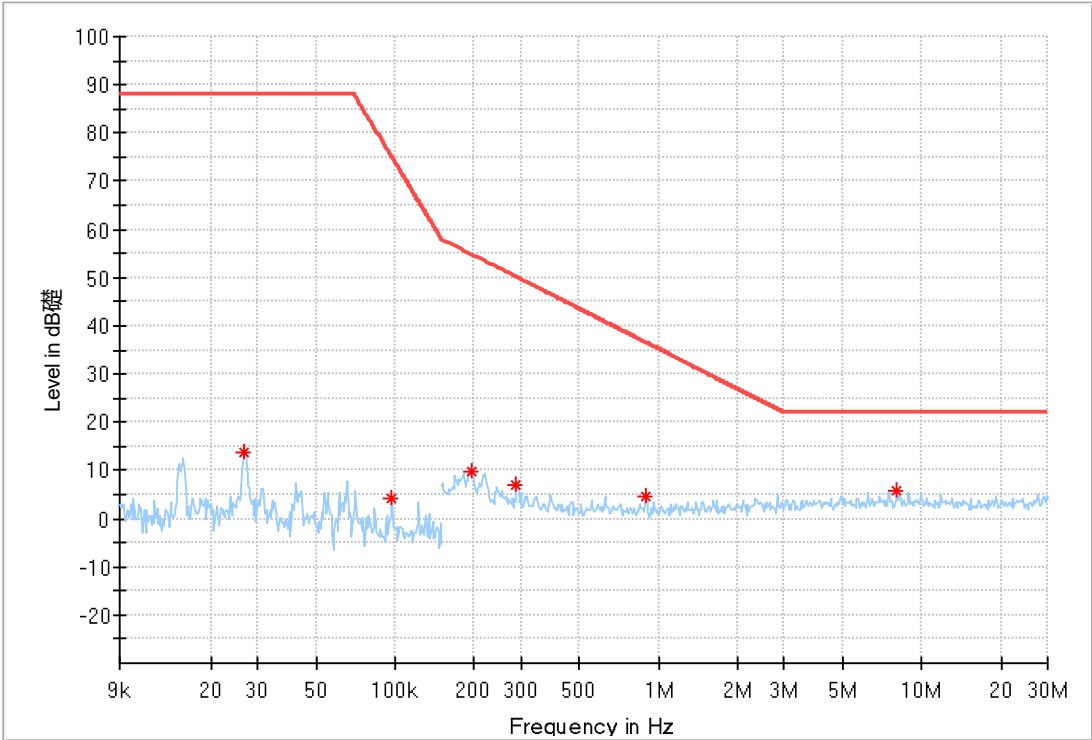
Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.024587	24.45	88.00	63.55	Z	6.01
0.097062	12.46	75.13	62.67	Z	6.01
0.194289	16.56	54.89	38.33	Z	6.01
0.221119	14.83	53.34	38.50	Z	6.01
0.295084	9.71	49.87	40.16	Z	6.01
0.908365	5.20	36.36	31.15	Z	6.02

Final Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-60WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-060D086)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: X
Date of Test: 2023-10-08
Detailed results are shown below



Critical Freqs

Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.026890	13.57	88.00	74.43	X	6.01
0.097062	4.36	75.13	70.77	X	6.01
0.196232	9.77	54.77	45.00	X	6.01
0.289269	7.14	50.11	42.97	X	6.01
0.899371	4.67	36.48	31.80	X	6.02
8.028623	5.65	22.00	16.35	X	6.11

Final Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-60WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-060D086)

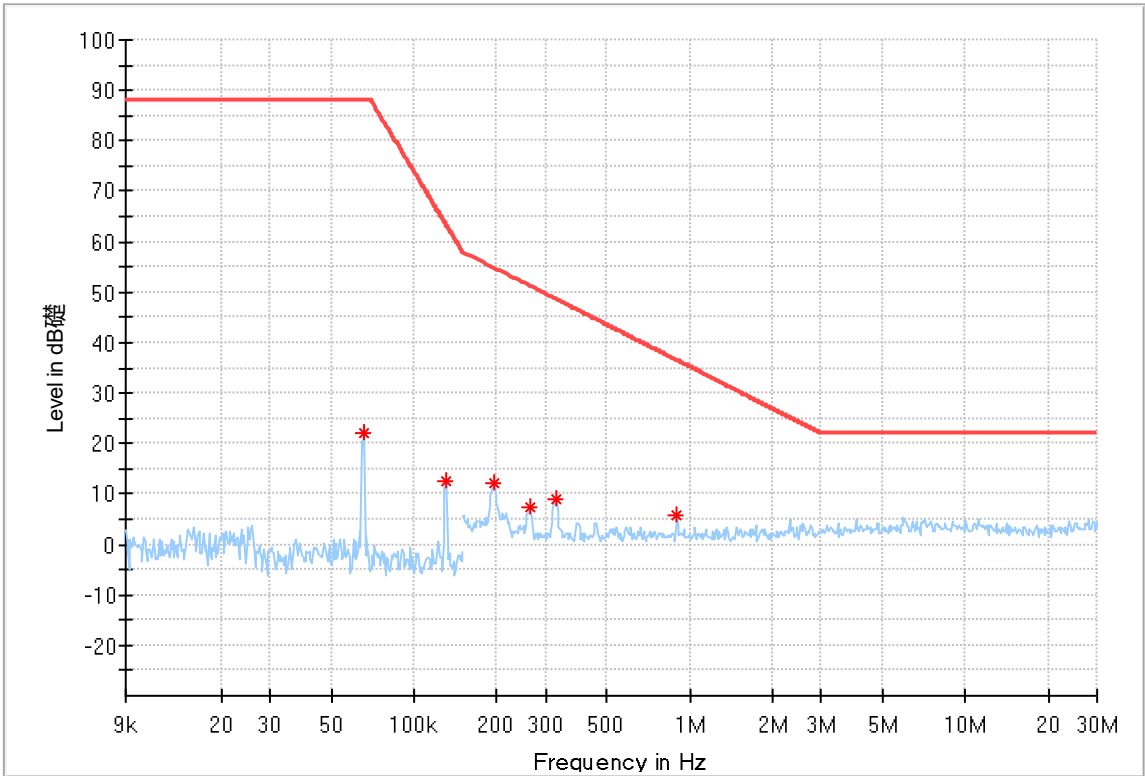
Op Cond.: Lighting

Comment: AC 230V/50Hz

Test Spec.: Y

Date of Test: 2023-10-08

Detailed results are shown below



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.065844	21.97	88.00	66.03	Y	6.01
0.130825	12.45	63.38	50.93	Y	6.01
0.194289	12.17	54.89	42.72	Y	6.01
0.261872	7.43	51.30	43.87	Y	6.01
0.329215	8.84	48.55	39.72	Y	6.02
0.899371	5.66	36.48	30.81	Y	6.02

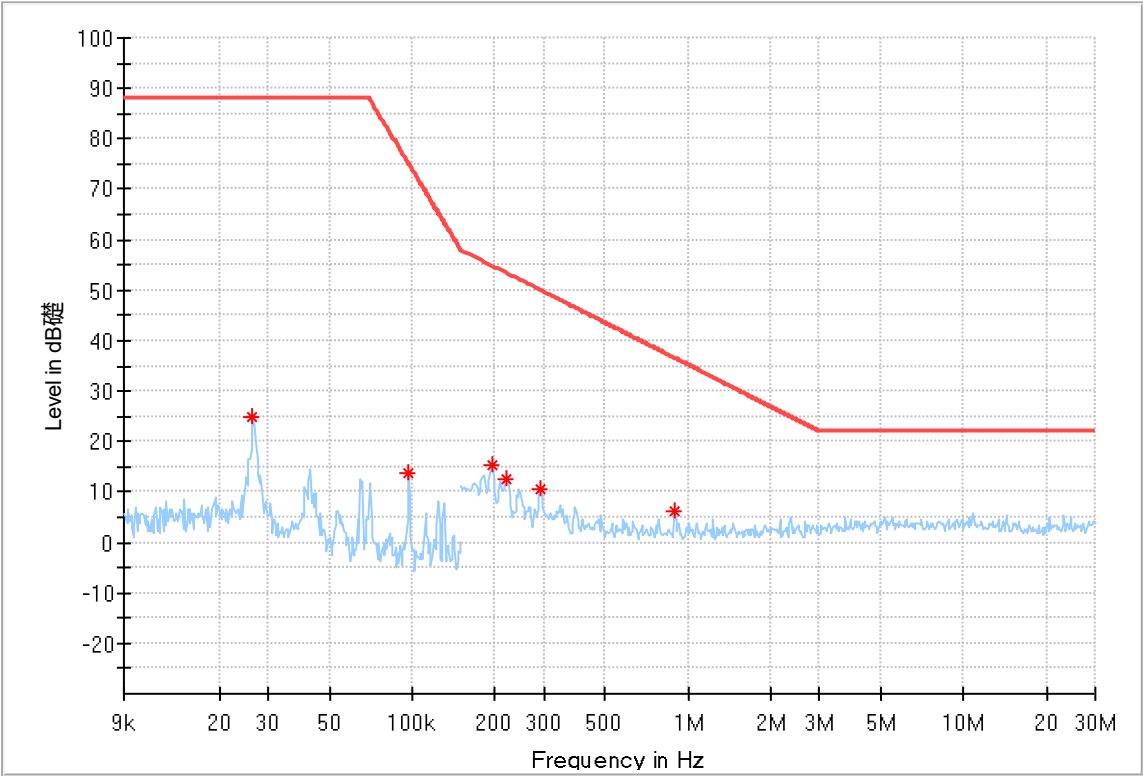
Final_Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
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M/N:
Op Cond.:
Comment:
Test Spec.:
Date of Test:
Detailed results are shown below

AOK-60WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-060D086)
Lighting
AC 230V/50Hz
Z
2023-10-08



Critical_Freqs

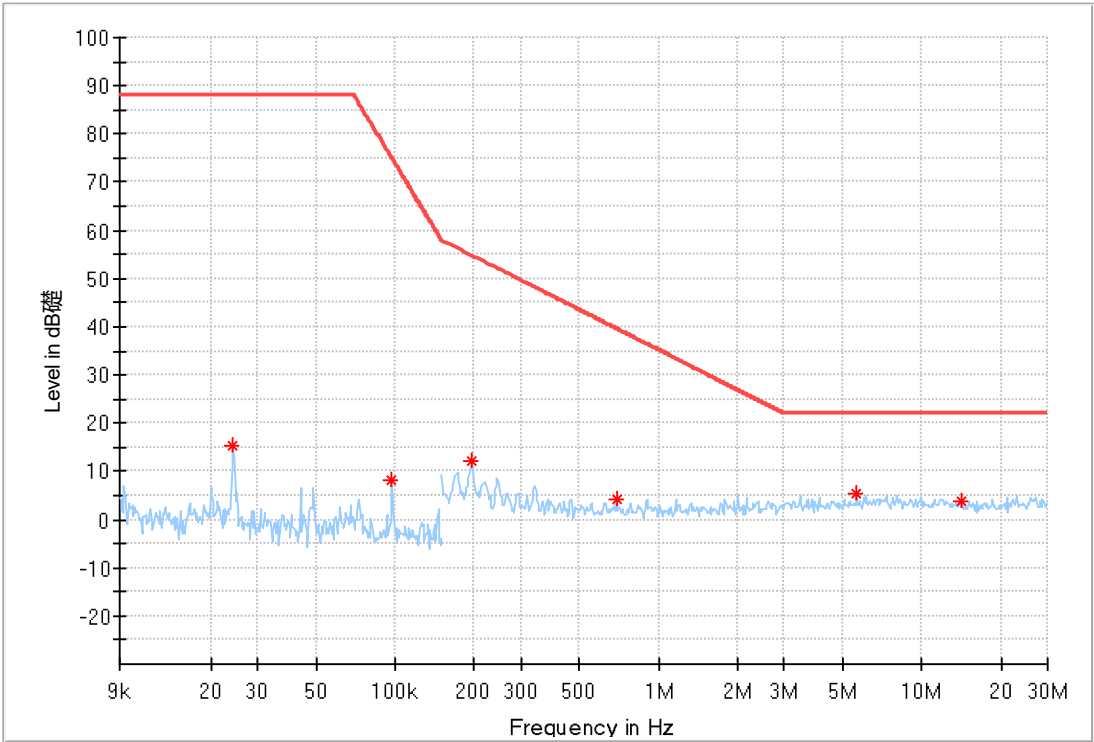
Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.026360	24.69	88.00	63.31	Z	6.01
0.097062	13.63	75.13	61.51	Z	6.01
0.194289	15.47	54.89	39.42	Z	6.01
0.221119	12.73	53.34	40.61	Z	6.01
0.292162	10.40	49.99	39.59	Z	6.01
0.890466	6.02	36.60	30.58	Z	6.02

Final_Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-70WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-75PA-108B)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: X
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.024343	15.37	88.00	72.63	X	6.01
0.097062	8.17	75.13	66.96	X	6.01
0.196232	11.96	54.77	42.81	X	6.01
0.694358	4.07	39.59	35.51	X	6.02
5.667519	5.54	22.00	16.46	X	6.09
14.156613	3.78	22.00	18.22	X	6.12

Final_Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-70WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-75PA-108B)

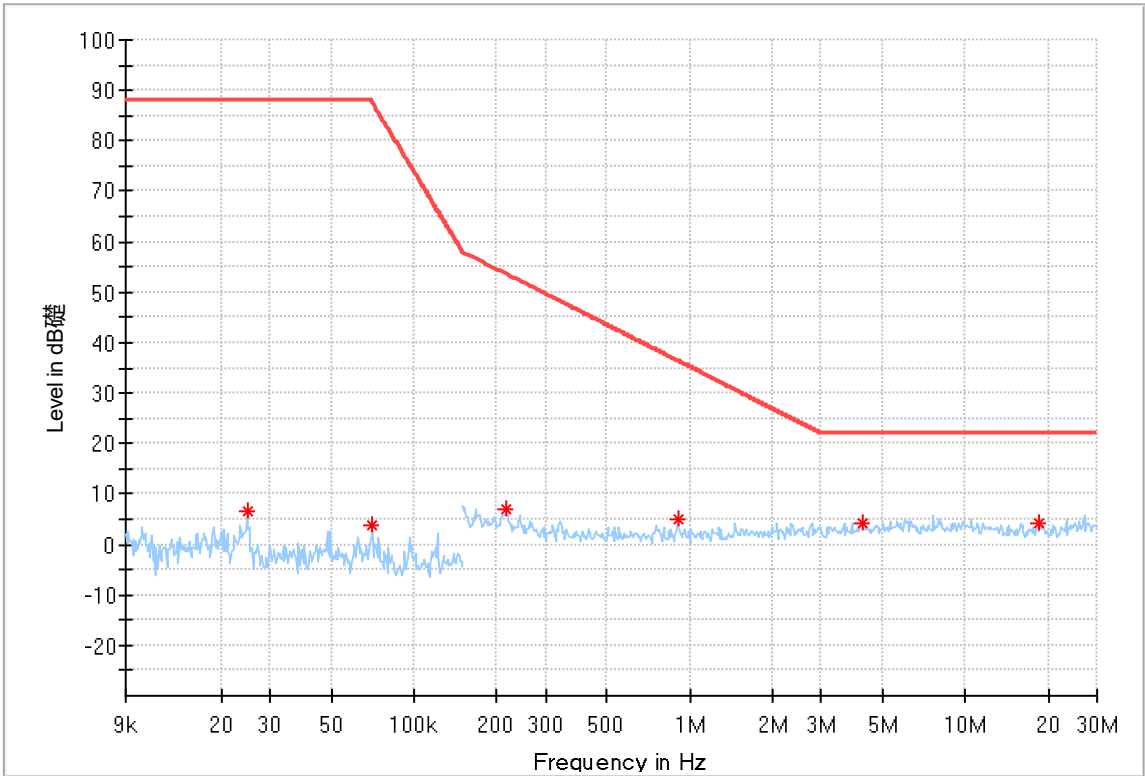
Op Cond.: Lighting

Comment: AC 230V/50Hz

Test Spec.: Y

Date of Test: 2023-10-08

Detailed results are shown below



Critical_Freqs

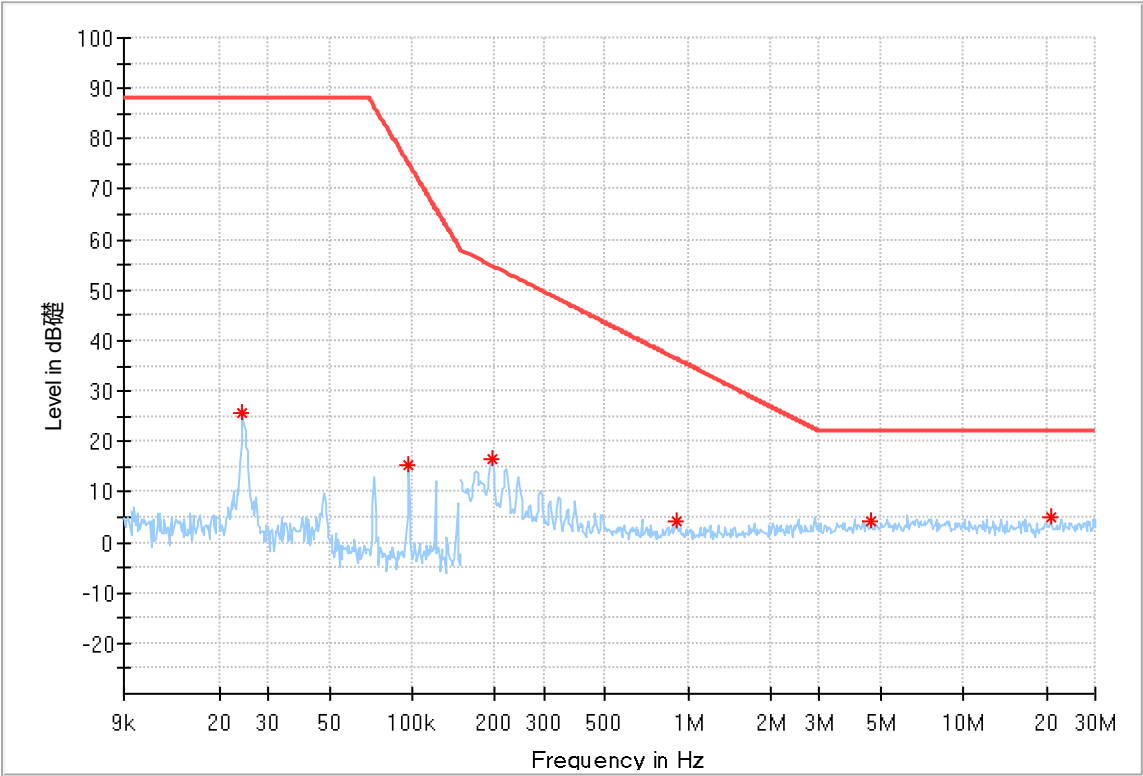
Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.024833	6.51	88.00	81.49	Y	6.01
0.070594	3.89	87.67	83.78	Y	6.01
0.216762	7.03	53.58	46.54	Y	6.01
0.908365	4.85	36.36	31.51	Y	6.02
4.204862	4.33	22.00	17.67	Y	6.06
18.519807	4.36	22.00	17.64	Y	6.13

Final_Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-70WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-75PA-108B)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: Z
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

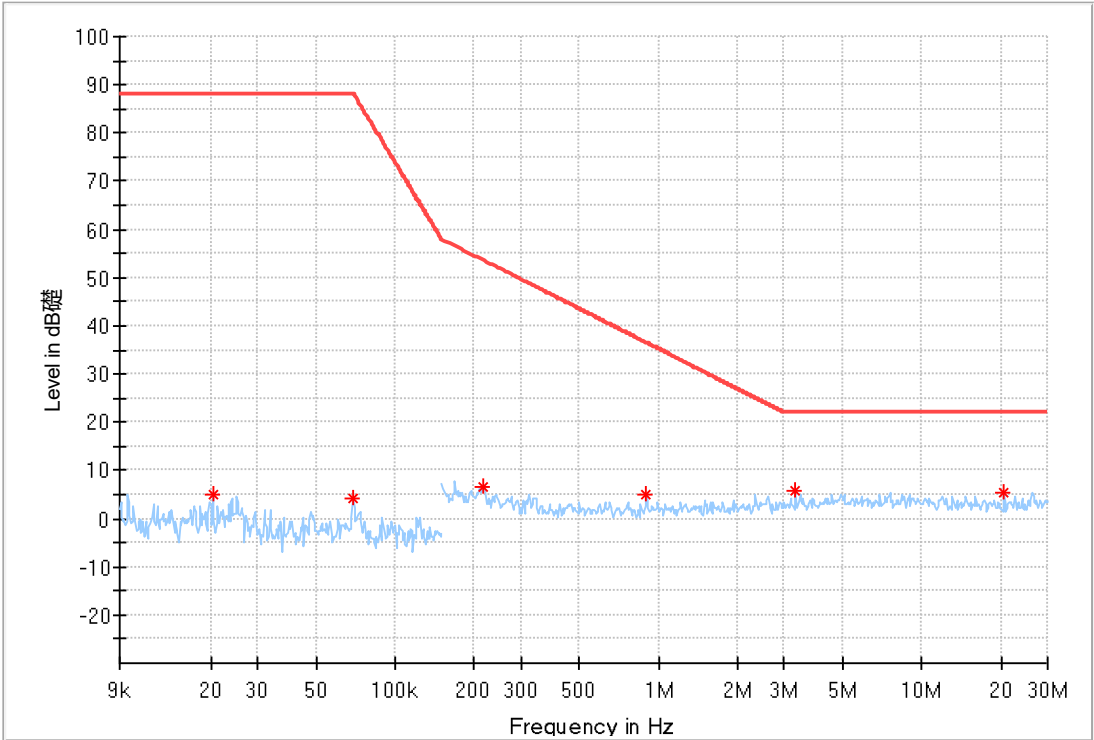
Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.024343	25.51	88.00	62.49	Z	6.01
0.097062	15.48	75.13	59.66	Z	6.01
0.194289	16.48	54.89	38.41	Z	6.01
0.908365	4.27	36.36	32.09	Z	6.02
4.644784	4.33	22.00	17.67	Z	6.07
20.661963	4.99	22.00	17.01	Z	6.13

Final_Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-70WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-080D115)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: X
Date of Test: 2023-10-08
Detailed results are shown below



Critical Freqs

Frequency (MHz)	MaxPeak (dBµA)	Limit (dBµA)	Margin (dB)	Axis	Corr. (dB)
0.020351	4.98	88.00	83.02	X	6.01
0.069203	4.21	88.00	83.79	X	6.01
0.214616	6.67	53.70	47.03	X	6.01
0.899371	4.93	36.48	31.54	X	6.02
3.311607	5.67	22.00	16.33	X	6.05
20.457389	5.22	22.00	16.78	X	6.13

Final Result

Frequency (MHz)	QuasiPeak (dBµA)	Limit (dBµA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-70WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-080D115)

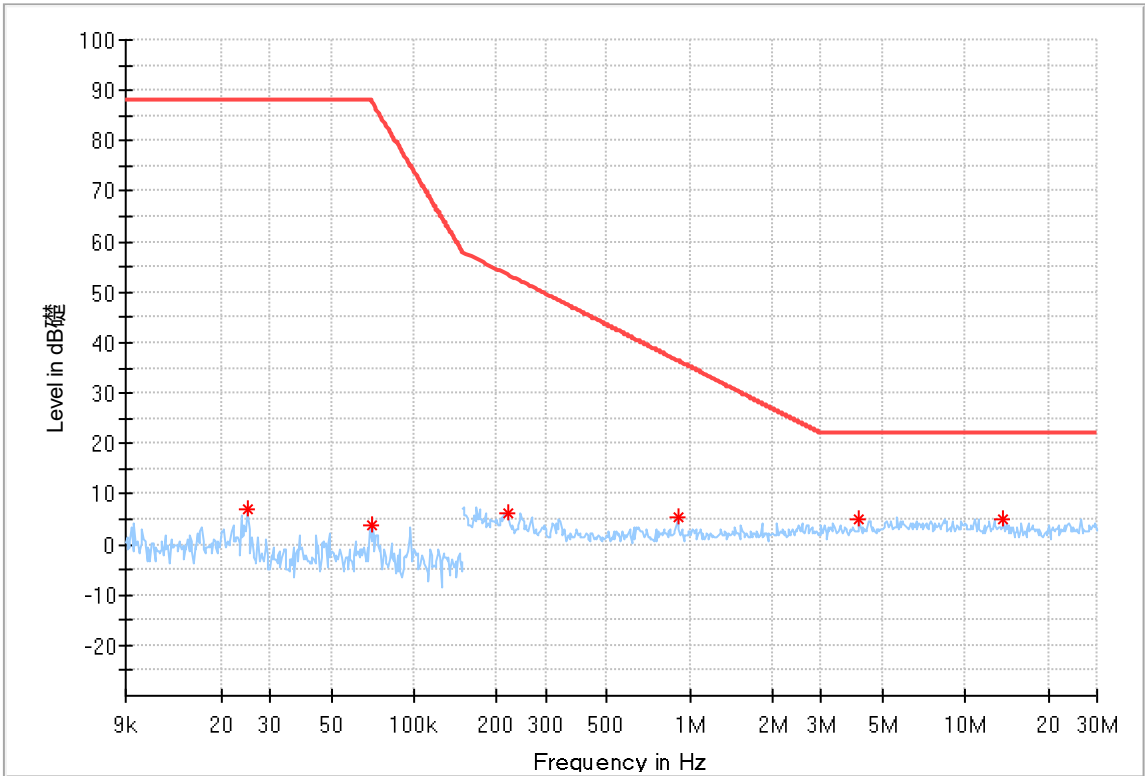
Op Cond.: Lighting

Comment: AC 230V/50Hz

Test Spec.: Y

Date of Test: 2023-10-08

Detailed results are shown below



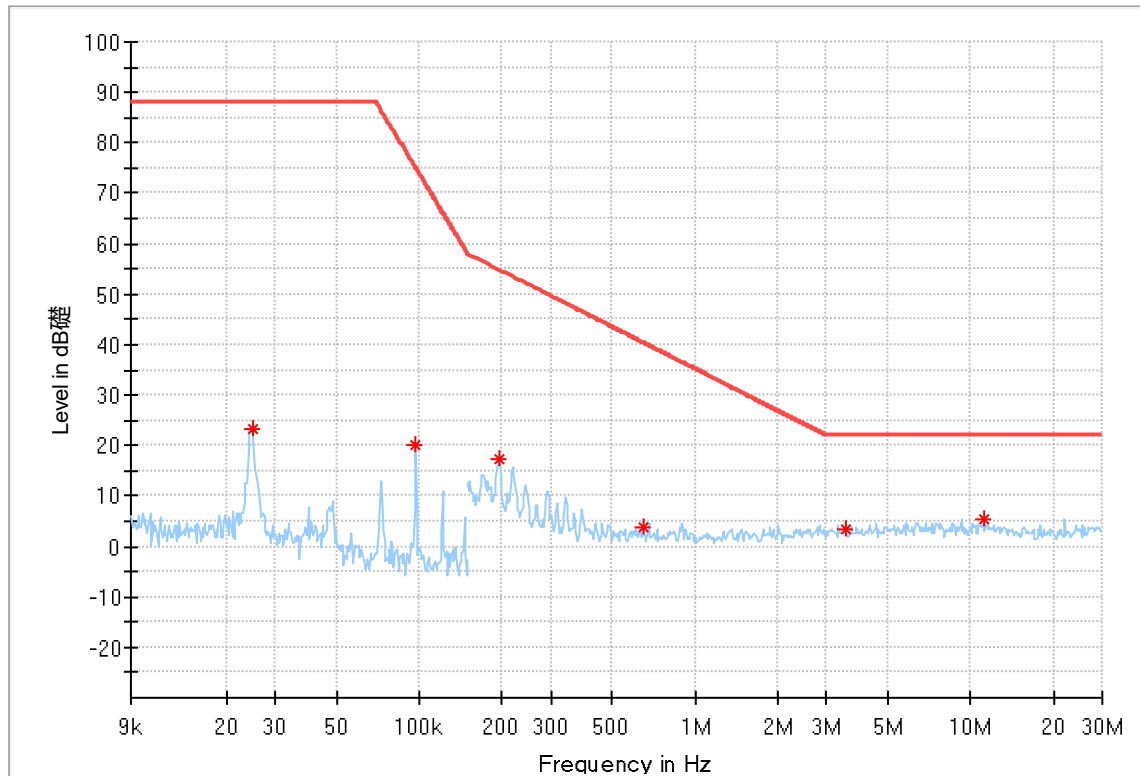
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.024833	7.03	88.00	80.97	Y	6.01
0.070594	3.88	87.67	83.79	Y	6.01
0.218929	6.23	53.46	47.22	Y	6.01
0.908365	5.48	36.36	30.88	Y	6.02
4.122010	4.98	22.00	17.02	Y	6.06
13.740269	4.88	22.00	17.12	Y	6.12

Final_Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-70WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-080D115)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Test Spec.: Z
 Date of Test: 2023-10-08
 Detailed results are shown below



Critical_Freqs

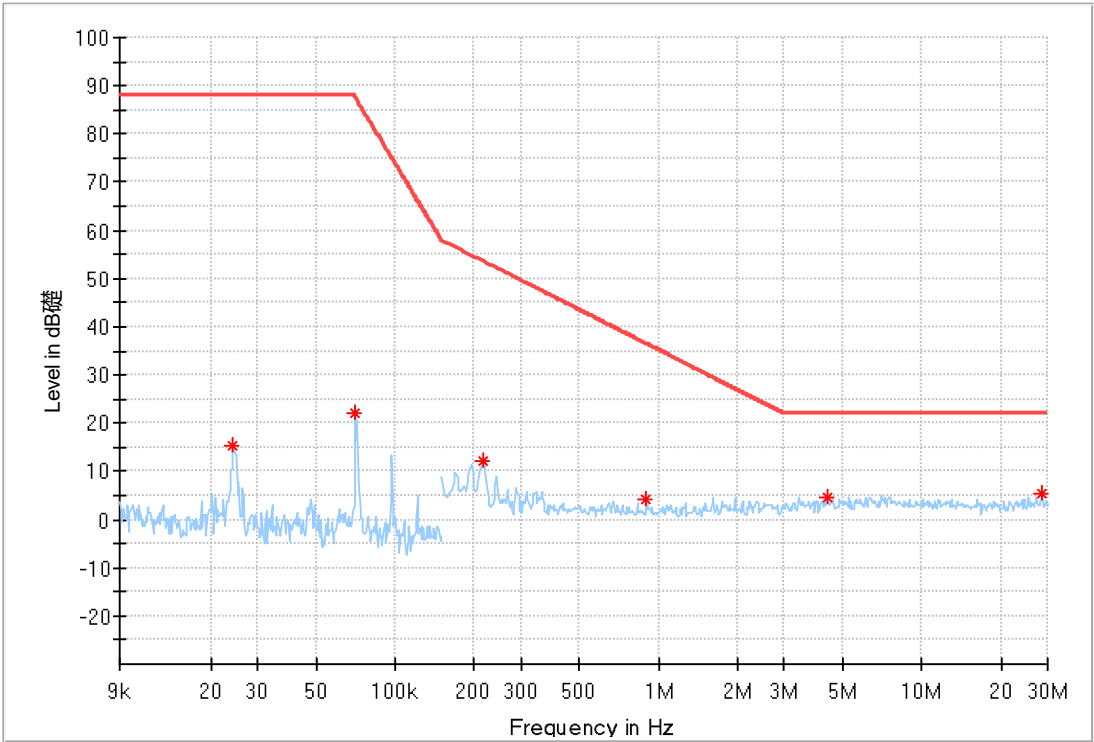
Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.024833	23.17	88.00	64.83	Z	6.01
0.097062	20.21	75.13	54.93	Z	6.01
0.194289	17.20	54.89	37.70	Z	6.01
0.647640	3.67	40.42	36.76	Z	6.02
3.515338	3.50	22.00	18.50	Z	6.06
11.149269	5.20	22.00	16.80	Z	6.12

Final Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-100WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-110PA-160B)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: X
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

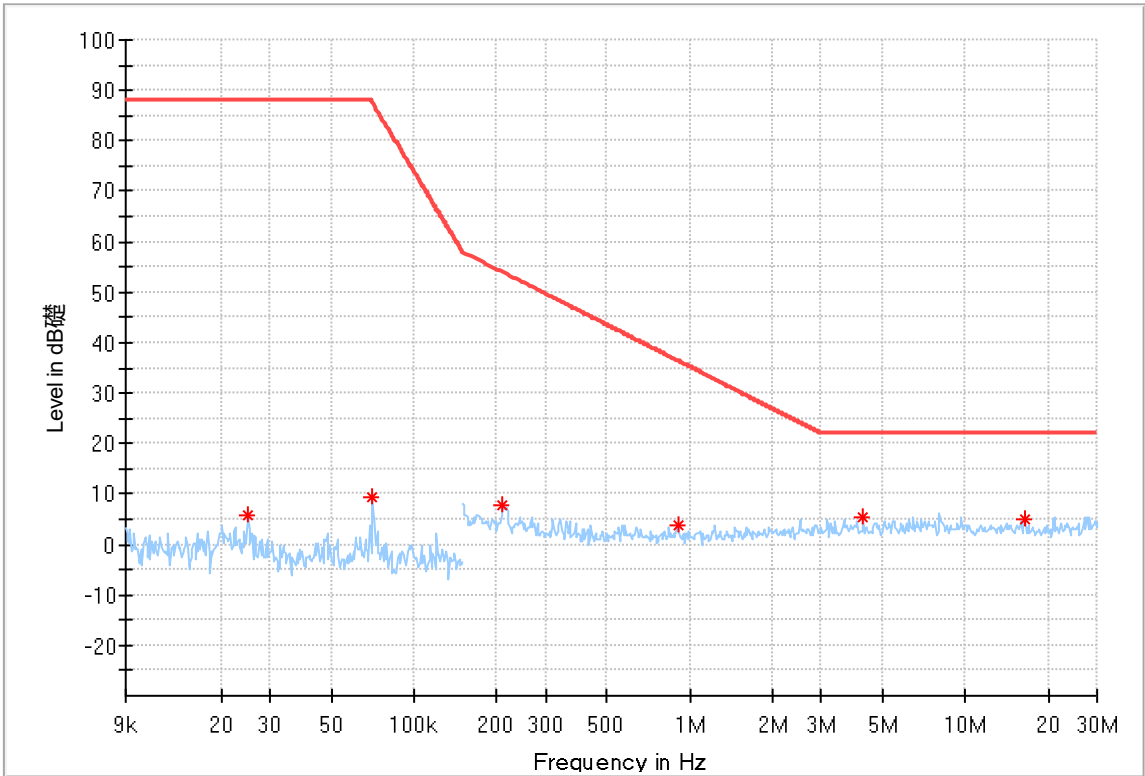
Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.024343	15.19	88.00	72.81	X	6.01
0.070594	22.27	87.67	65.39	X	6.01
0.216762	12.31	53.58	41.26	X	6.01
0.899371	4.38	36.48	32.10	X	6.02
4.375596	4.48	22.00	17.52	X	6.07
28.693063	5.19	22.00	16.81	X	6.15

Final_Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-100WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-110PA-160B)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: Y
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµA)	Limit (dBµA)	Margin (dB)	Axis	Corr. (dB)
0.025081	5.88	88.00	82.12	Y	6.01
0.070594	9.42	87.67	78.25	Y	6.01
0.210387	7.58	53.93	46.35	Y	6.01
0.908365	3.85	36.36	32.50	Y	6.02
4.246911	5.37	22.00	16.63	Y	6.06
16.435389	5.07	22.00	16.93	Y	6.13

Final_Result

Frequency (MHz)	QuasiPeak (dBµA)	Limit (dBµA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-100WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-110PA-160B)

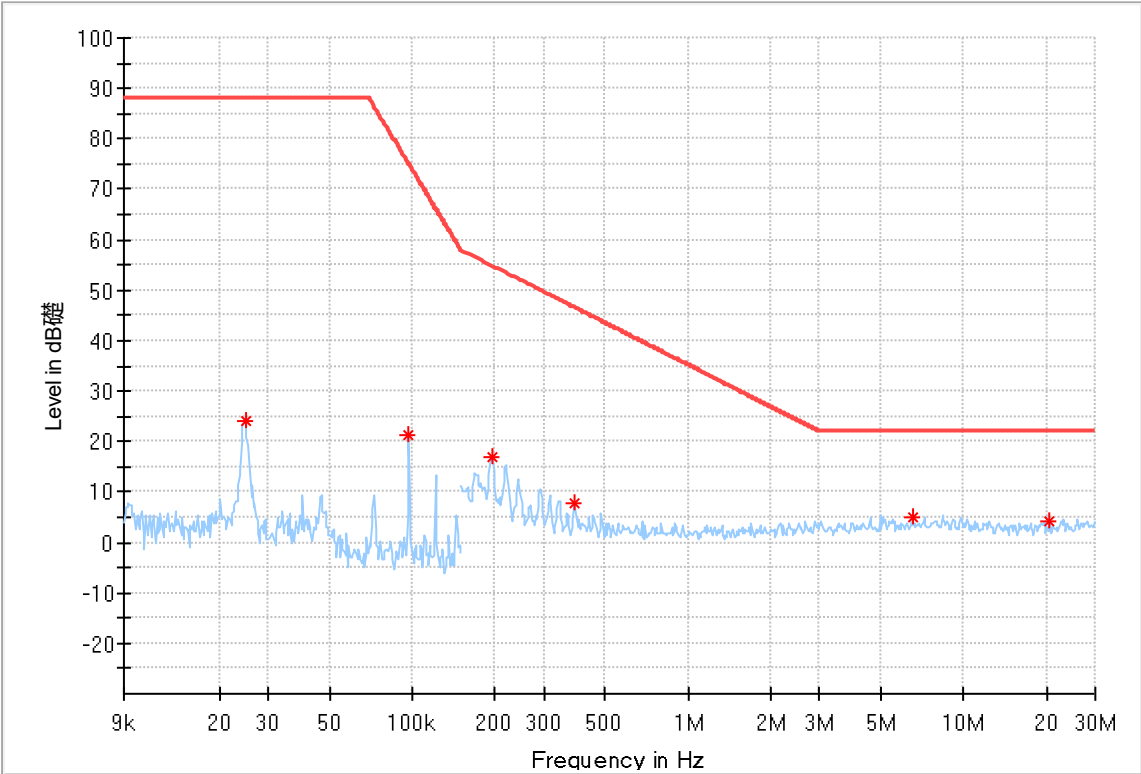
Op Cond.: Lighting

Comment: AC 230V/50Hz

Test Spec.: Z

Date of Test: 2023-10-08

Detailed results are shown below



Critical_Freqs

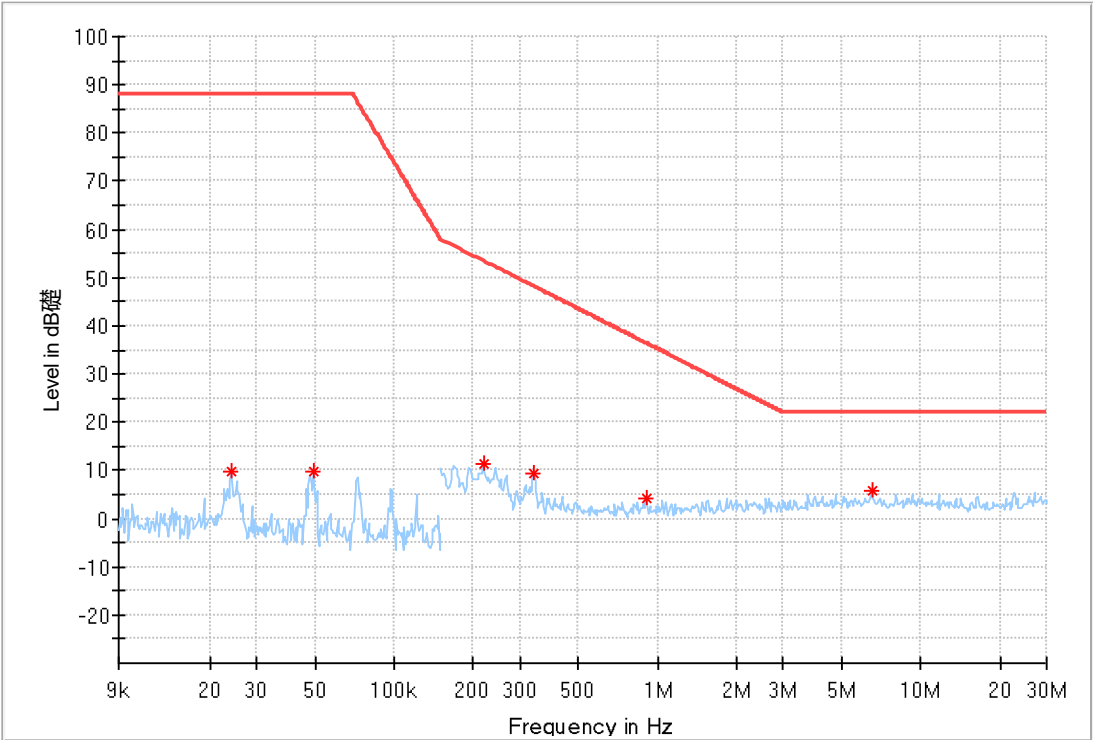
Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.024833	24.00	88.00	64.00	Z	6.01
0.097062	21.35	75.13	53.79	Z	6.01
0.194289	16.72	54.89	38.17	Z	6.01
0.386031	7.89	46.64	38.75	Z	6.02
6.514667	5.02	22.00	16.98	Z	6.10
20.457389	4.21	22.00	17.79	Z	6.13

Final_Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-120WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-120D172)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: X
Date of Test: 2023-10-08
Detailed results are shown below



Critical Freqs

Frequency (MHz)	MaxPeak (dBµA)	Limit (dBµA)	Margin (dB)	Axis	Corr. (dB)
0.024102	9.95	88.00	78.05	X	6.01
0.049340	9.65	88.00	78.35	X	6.01
0.218929	11.41	53.46	42.05	X	6.01
0.339191	9.38	48.20	38.81	X	6.02
0.908365	4.08	36.36	32.28	X	6.02
6.514667	5.60	22.00	16.40	X	6.10

Final Result

Frequency (MHz)	QuasiPeak (dBµA)	Limit (dBµA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-120WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-120D172)

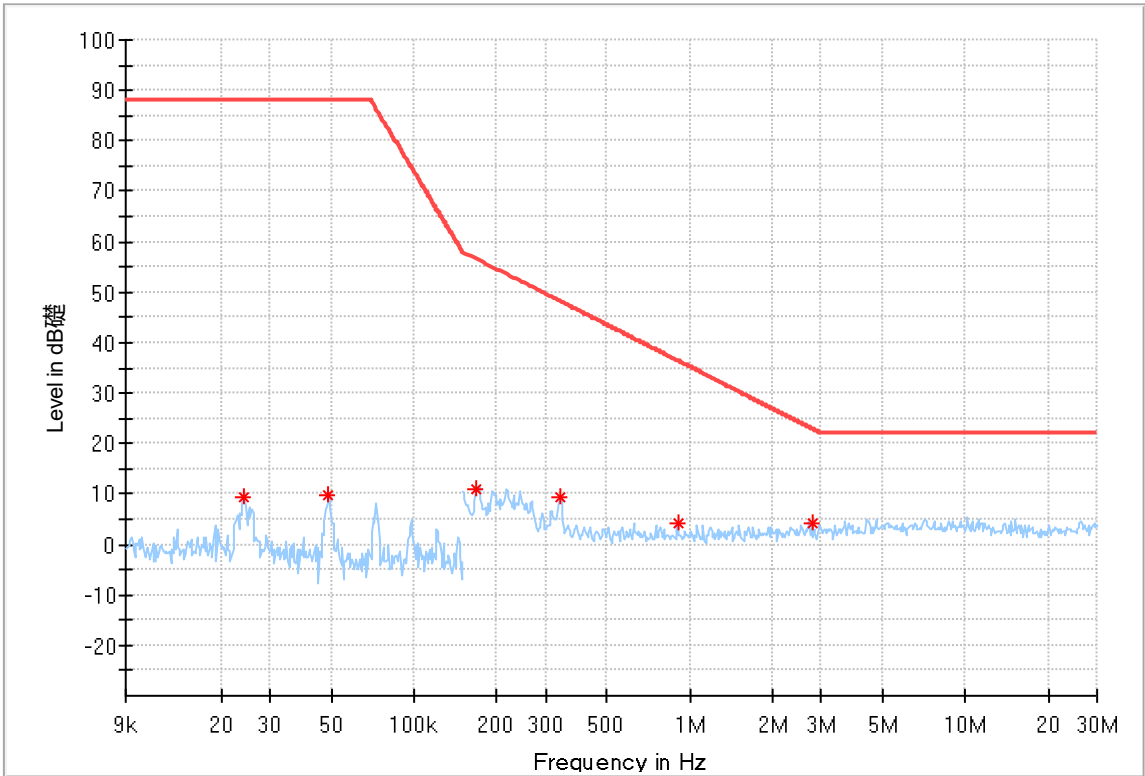
Op Cond.: Lighting

Comment: AC 230V/50Hz

Test Spec.: Y

Date of Test: 2023-10-08

Detailed results are shown below



Critical_Freqs

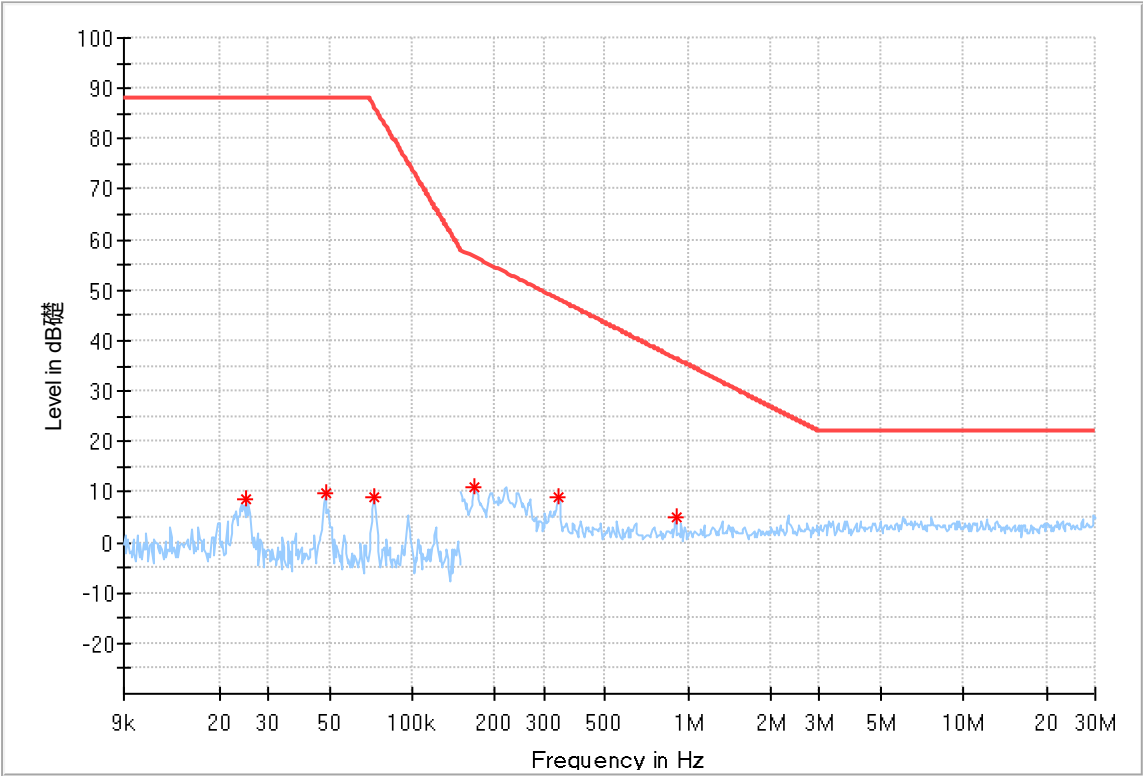
Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.024343	9.43	88.00	78.57	Y	6.01
0.048851	9.59	88.00	78.41	Y	6.01
0.169024	11.04	56.57	45.52	Y	6.01
0.339191	9.35	48.20	38.85	Y	6.02
0.908365	4.23	36.36	32.13	Y	6.02
2.768561	4.24	22.97	18.73	Y	6.05

Final_Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-120WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-120D172)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: Z
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

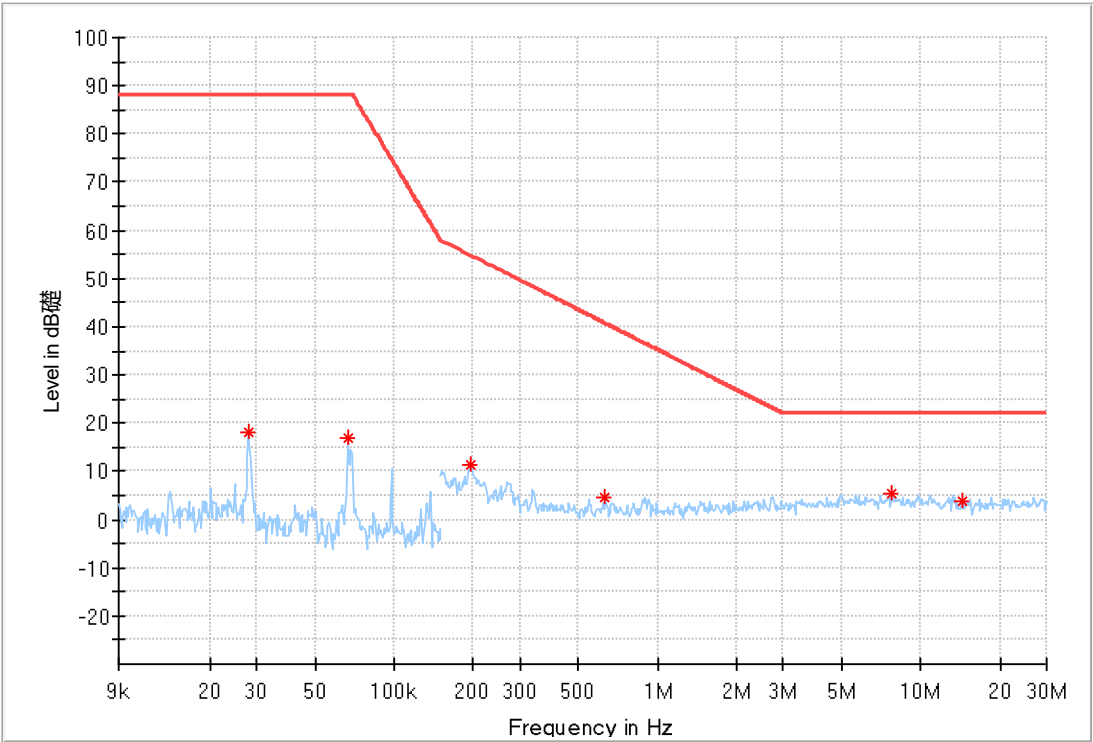
Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.025081	8.42	88.00	79.58	Z	6.01
0.048368	9.57	88.00	78.43	Z	6.01
0.072733	8.92	86.49	77.57	Z	6.01
0.167350	10.75	56.69	45.93	Z	6.01
0.339191	9.12	48.20	39.07	Z	6.02
0.908365	5.14	36.36	31.21	Z	6.02

Final_Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
---	---	---	---		---



M/N: AOK-150WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-165PA-235B)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: X
Date of Test: 2023-10-08
Detailed results are shown below



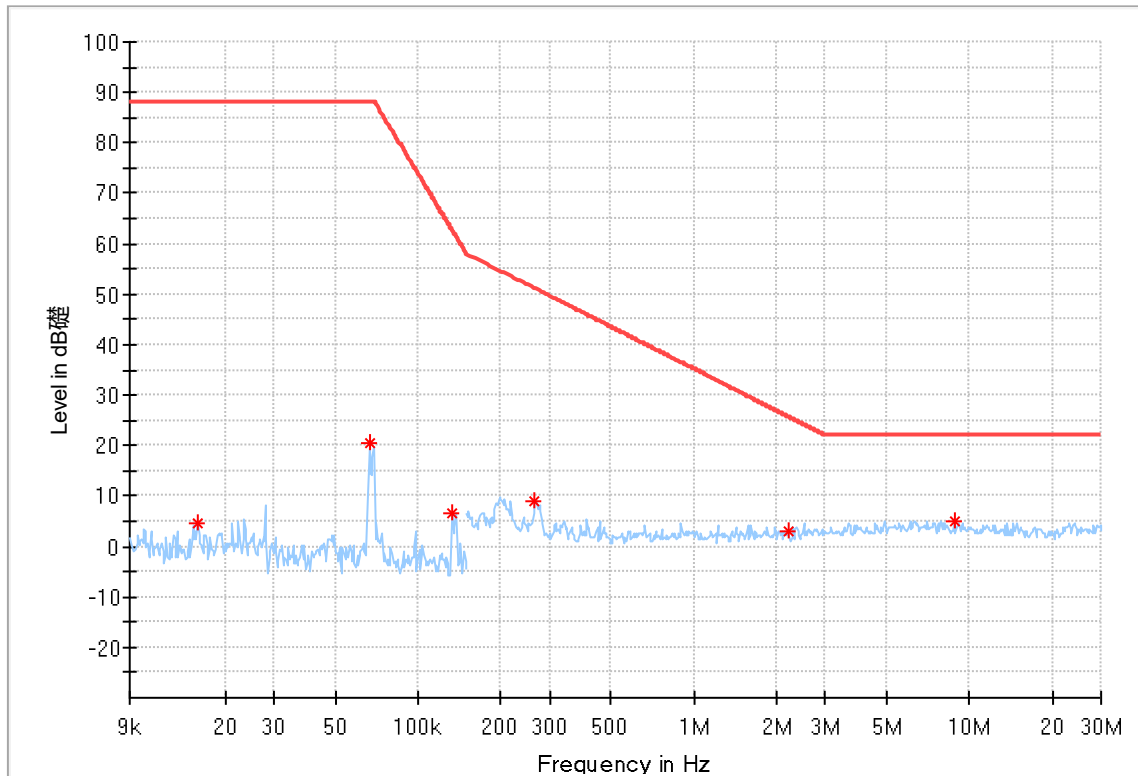
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.027982	18.27	88.00	69.73	X	6.02
0.066503	16.72	88.00	71.28	X	6.04
0.196232	11.44	54.77	43.33	X	6.04
0.634879	4.45	40.66	36.21	X	6.08
7.792502	5.30	22.00	16.70	X	6.05
14.298179	3.62	22.00	18.38	X	6.09

Final_Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-150WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-165PA-235B)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Test Spec.: Y
 Date of Test: 2023-10-08
 Detailed results are shown below



Critical_Freqs

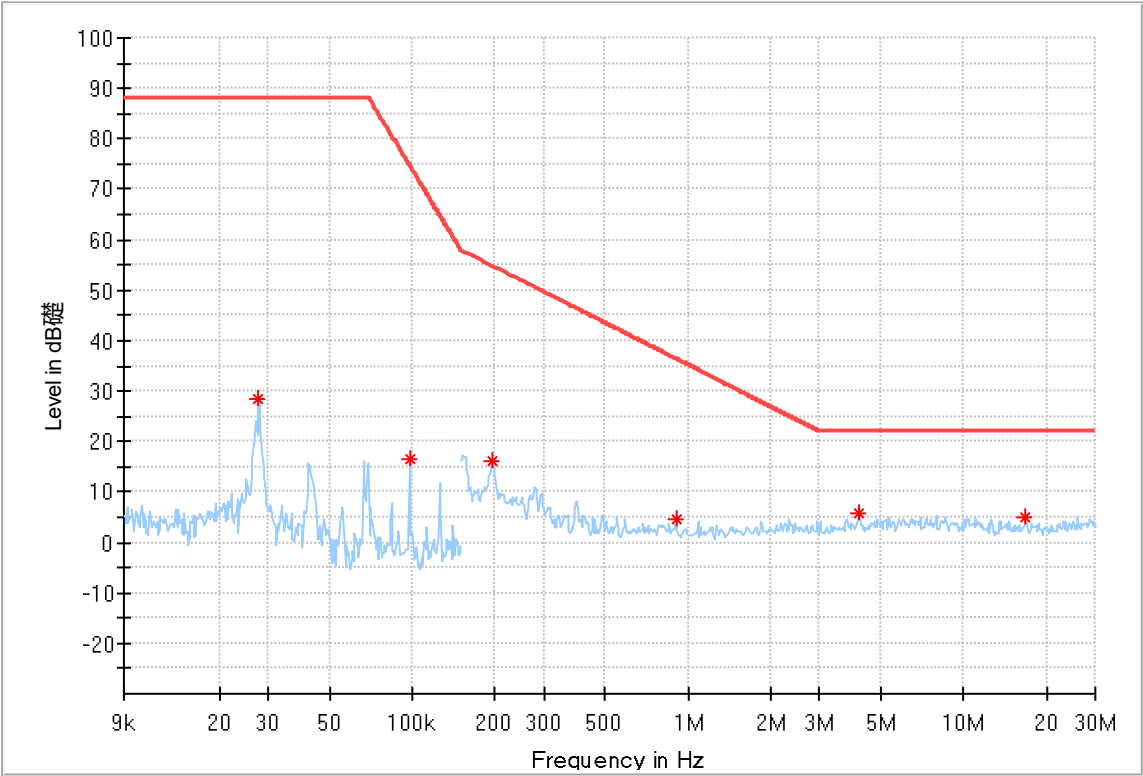
Frequency (MHz)	MaxPeak (dBµA)	Limit (dBµA)	Margin (dB)	Axis	Corr. (dB)
0.015869	4.77	88.00	83.23	Y	6.02
0.066503	20.33	88.00	67.67	Y	6.04
0.133455	6.50	62.60	56.10	Y	6.03
0.264490	8.79	51.18	42.40	Y	6.05
2.202229	3.03	25.72	22.68	Y	6.07
8.780787	4.90	22.00	17.10	Y	6.06

Final Result

Frequency (MHz)	QuasiPeak (dBµA)	Limit (dBµA)	Margin (dB)	Axis	Corr. (dB)
---	---	---	---		---



M/N: AOK-150WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-165PA-235B)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: Z
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

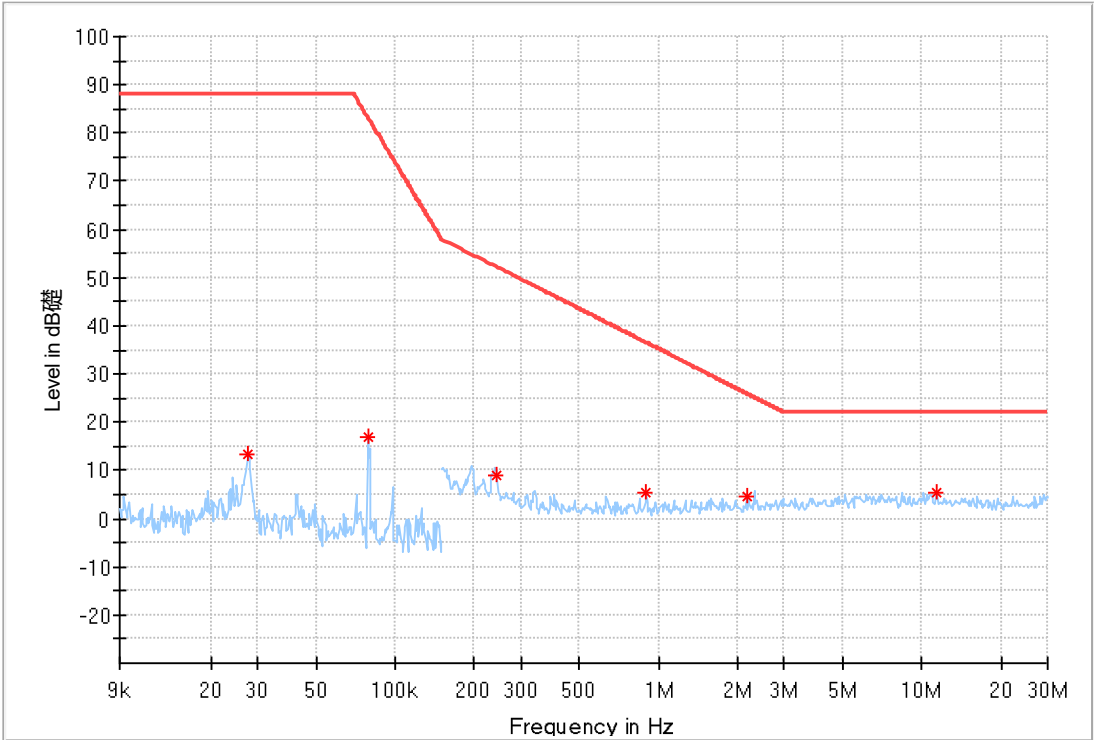
Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.027705	28.26	88.00	59.74	Z	6.02
0.098033	16.60	74.74	58.14	Z	6.02
0.196232	16.19	54.77	38.58	Z	6.04
0.908365	4.54	36.36	31.81	Z	6.09
4.163230	5.69	22.00	16.31	Z	6.07
16.765740	5.07	22.00	16.93	Z	6.08

Final_Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-150WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-165D236)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: X
Date of Test: 2023-10-08
Detailed results are shown below



Critical Freqs

Frequency (MHz)	MaxPeak (dBµA)	Limit (dBµA)	Margin (dB)	Axis	Corr. (dB)
0.027705	13.22	88.00	74.78	X	6.02
0.078759	16.96	83.36	66.40	X	6.03
0.244252	8.83	52.14	43.31	X	6.05
0.899371	5.20	36.48	31.27	X	6.09
2.158836	4.65	25.95	21.30	X	6.07
11.373369	5.33	22.00	16.67	X	6.10

Final Result

Frequency (MHz)	QuasiPeak (dBµA)	Limit (dBµA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-150WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-165D236)

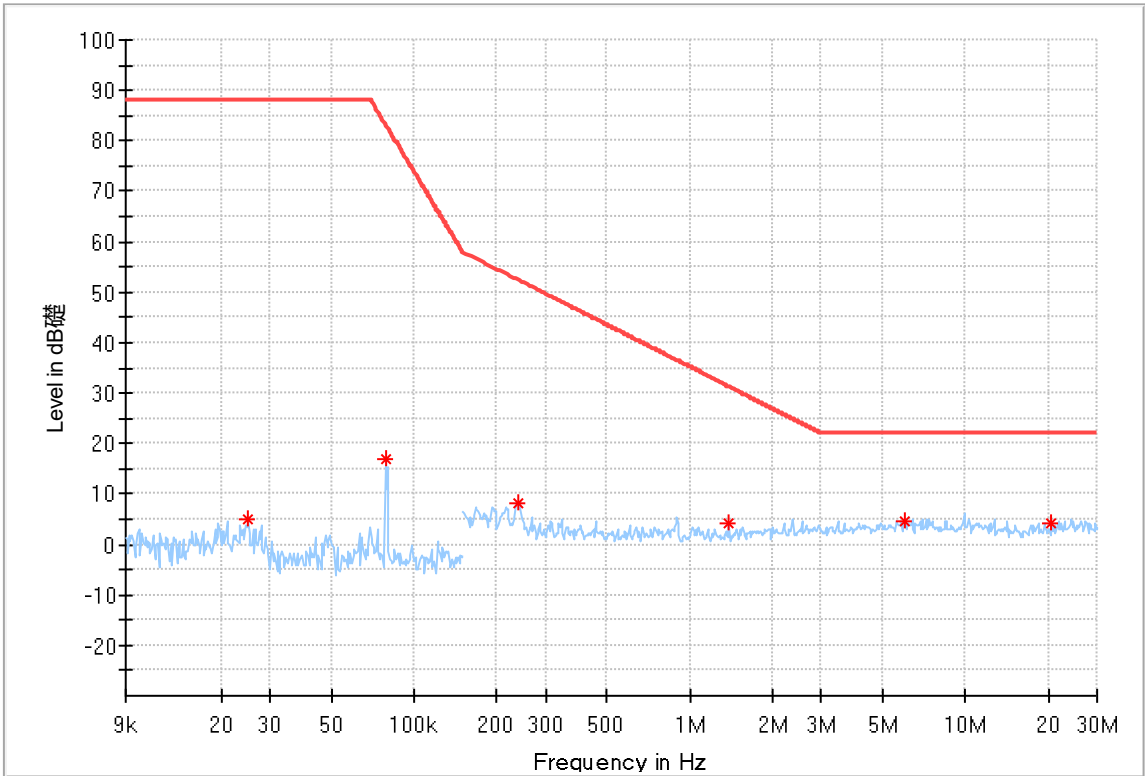
Op Cond.: Lighting

Comment: AC 230V/50Hz

Test Spec.: Y

Date of Test: 2023-10-08

Detailed results are shown below



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.025081	5.14	88.00	82.86	Y	6.02
0.078759	16.98	83.36	66.38	Y	6.03
0.239440	8.27	52.38	44.11	Y	6.05
1.393411	4.15	31.22	27.07	Y	6.09
6.016186	4.61	22.00	17.39	Y	6.13
20.457389	4.26	22.00	17.74	Y	6.07

Final_Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-150WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-165D236)

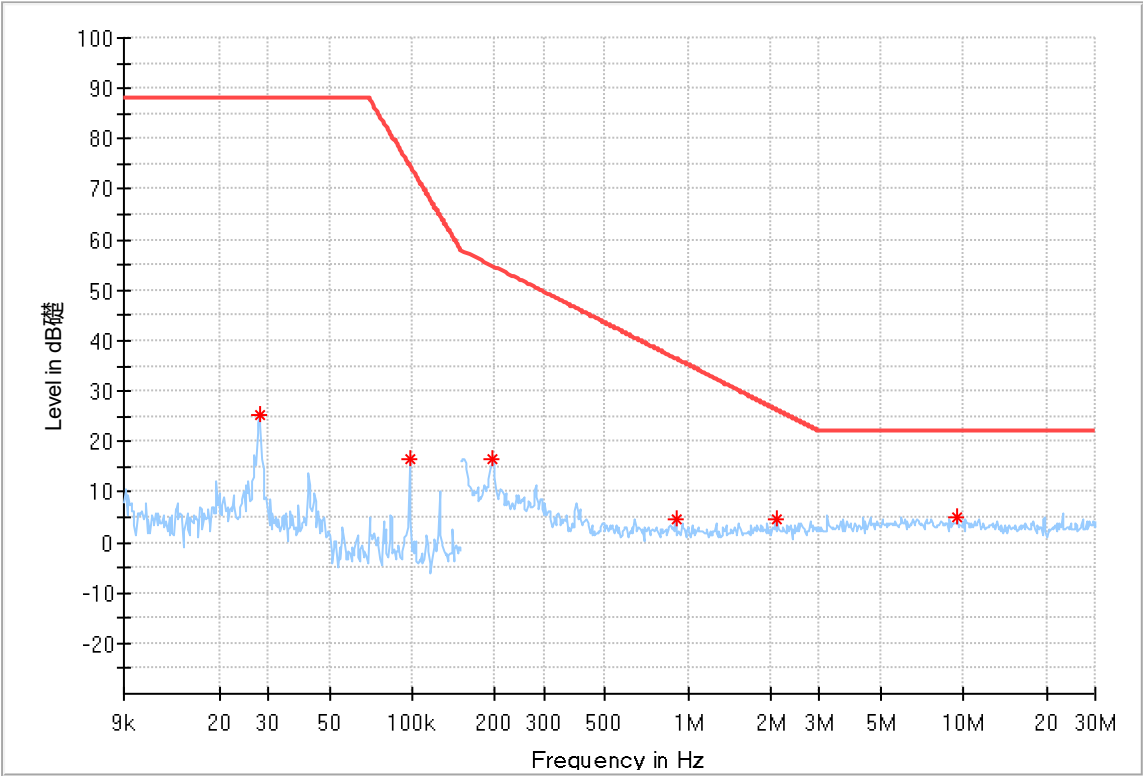
Op Cond.: Lighting

Comment: AC 230V/50Hz

Test Spec.: Z

Date of Test: 2023-10-08

Detailed results are shown below



Critical_Freqs

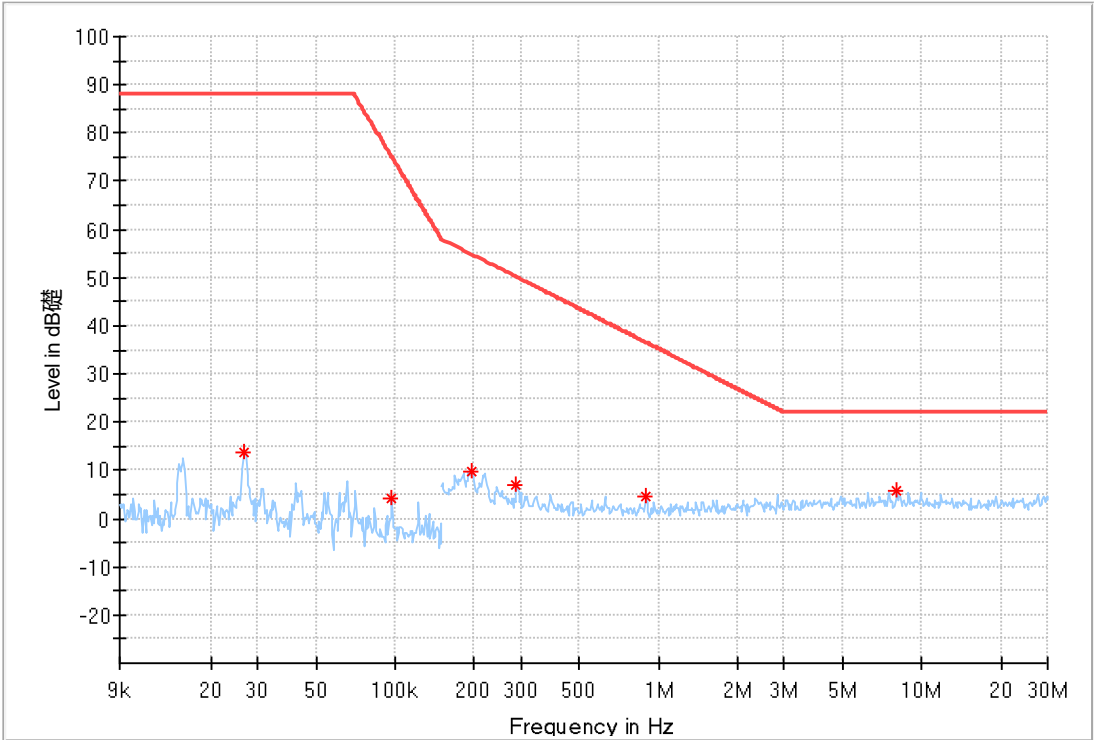
Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.027982	25.42	88.00	62.58	Z	6.02
0.098033	16.61	74.74	58.13	Z	6.02
0.196232	16.43	54.77	38.34	Z	6.04
0.908365	4.58	36.36	31.78	Z	6.09
2.116299	4.62	26.19	21.57	Z	6.07
9.508334	5.15	22.00	16.85	Z	6.09

Final_Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
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M/N: AOK-180WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-200D286)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: X
Date of Test: 2023-10-08
Detailed results are shown below



Critical Freqs

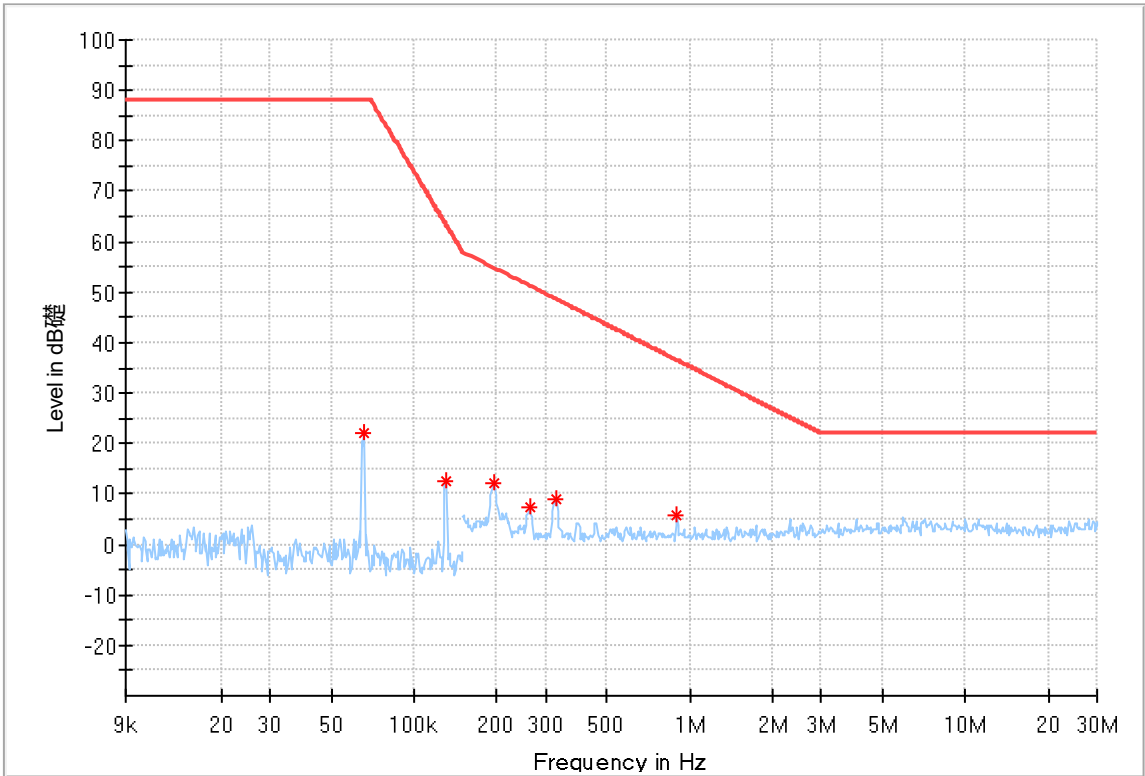
Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.026890	13.57	88.00	74.43	X	6.01
0.097062	4.36	75.13	70.77	X	6.01
0.196232	9.77	54.77	45.00	X	6.01
0.289269	7.14	50.11	42.97	X	6.01
0.899371	4.67	36.48	31.80	X	6.02
8.028623	5.65	22.00	16.35	X	6.11

Final Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
---	---	---	---		---



M/N: AOK-180WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-200D286)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: Y
Date of Test: 2023-10-08
Detailed results are shown below



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµA)	Limit (dBµA)	Margin (dB)	Axis	Corr. (dB)
0.065844	21.97	88.00	66.03	Y	6.01
0.130825	12.45	63.38	50.93	Y	6.01
0.194289	12.17	54.89	42.72	Y	6.01
0.261872	7.43	51.30	43.87	Y	6.01
0.329215	8.84	48.55	39.72	Y	6.02
0.899371	5.66	36.48	30.81	Y	6.02

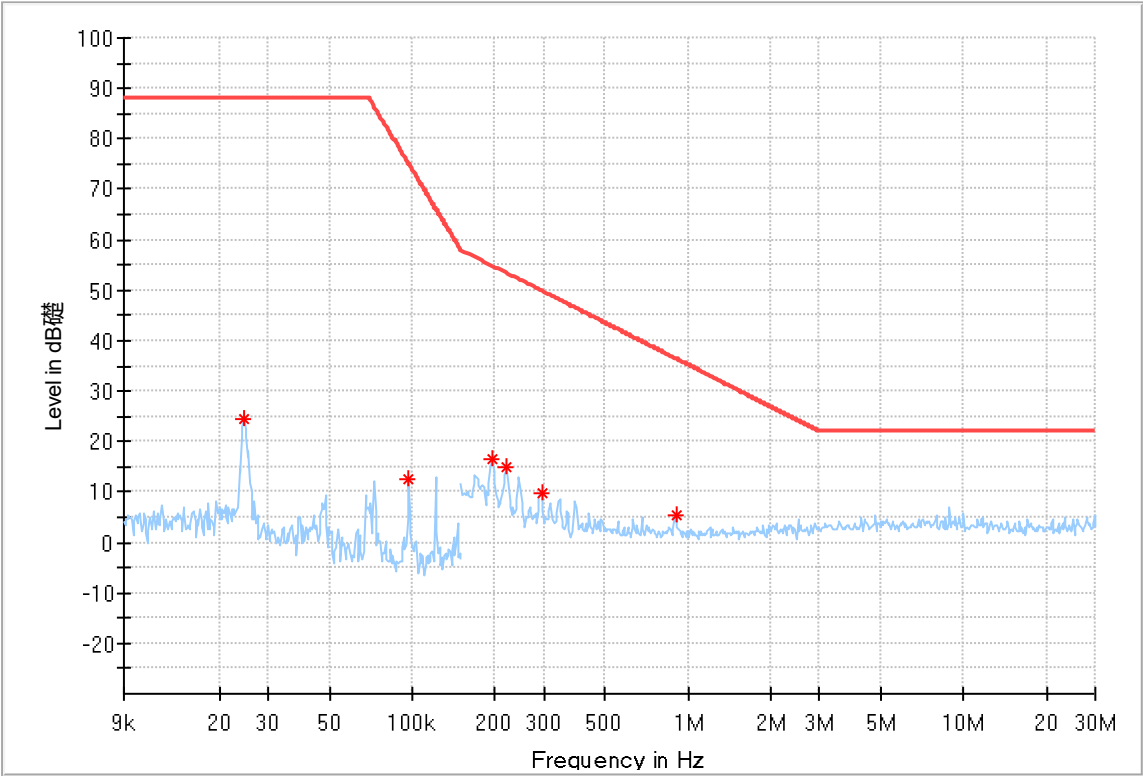
Final_Result

Frequency (MHz)	QuasiPeak (dBµA)	Limit (dBµA)	Margin (dB)	Axis	Corr. (dB)
---	---	---	---		---



M/N:
Op Cond.:
Comment:
Test Spec.:
Date of Test:
Detailed results are shown below

AOK-180WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-200D286)
Lighting
AC 230V/50Hz
Z
2023-10-08



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
0.024587	24.45	88.00	63.55	Z	6.01
0.097062	12.46	75.13	62.67	Z	6.01
0.194289	16.56	54.89	38.33	Z	6.01
0.221119	14.83	53.34	38.50	Z	6.01
0.295084	9.71	49.87	40.16	Z	6.01
0.908365	5.20	36.36	31.15	Z	6.02

Final_Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Axis	Corr. (dB)
---	---	---	---		---



Test Setup

2.2.8 Test Location

This test was carried out in conducted emission shielded room.

2.3 Radiated Disturbance (30MHz to 1000MHz)

2.3.1 Specification Reference

EN IEC 55015:2019+A11:2020, Clause 4.5.3

2.3.2 Equipment Under Test

AOK-20WiLA-NV-L3-00-6570-T2-P, AOK-40WiLA-NV-L3-00-6570-T2-P, AOK-60WiLA-NV-L3-00-6570-T2-P, AOK-70WiLA-NV-L3-00-6570-T2-P, AOK-100WiLA-NV-L3-00-6570-T2-P, AOK-120WiLA-NV-L3-00-6570-T2-P, AOK-150WiLA-NV-L3-00-6570-T2-P and AOK-180WiLA-NV-L3-00-6570-T2-P

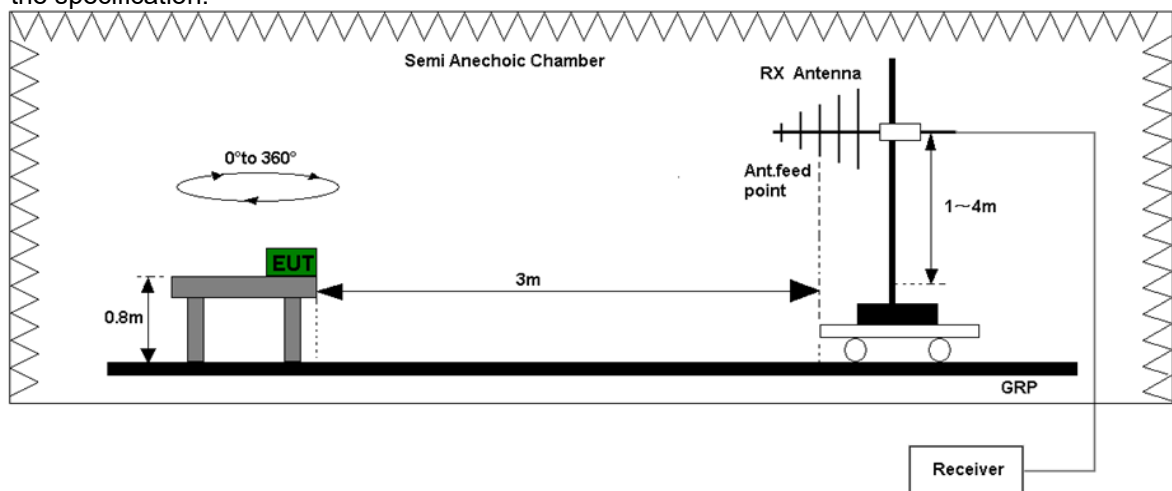
2.3.3 Date of Test

2023-10-17

2.3.4 Test Method

The EUT was set up in a semi-anechoic chamber on a remotely controlled turntable and placed on a non-conductive. Guidance on how to arrange the luminaire during the measurements can be found in Annex C.

A prescan of the EUT emissions profile was made while varying the antenna-to-EUT azimuth and antenna-to-EUT polarization using a peak detector; measurements were taken at a 3m distance. Using the prescan list of the highest emissions detected, their bearing and associated antenna polarization, the EUT was then formally measured using a Quasi-Peak detector. The readings were maximized by adjusting the antenna height, polarization and turntable azimuth, in accordance with the specification.



2.3.5 Environmental Conditions

Ambient Temperature	24.0 °C
Relative Humidity	53.3 %
Atmospheric Pressure	1009.0 mbar

2.3.6 Specification Limits

Radiated disturbance limits in the frequency range 30MHz to 1000MHz at a measuring distance of 3 m	
Frequency range MHz	Quasi-peak limits dB(μ V/m)
30 to 230	40
230 to 1000	47

Remark:

For Below 1GHz:

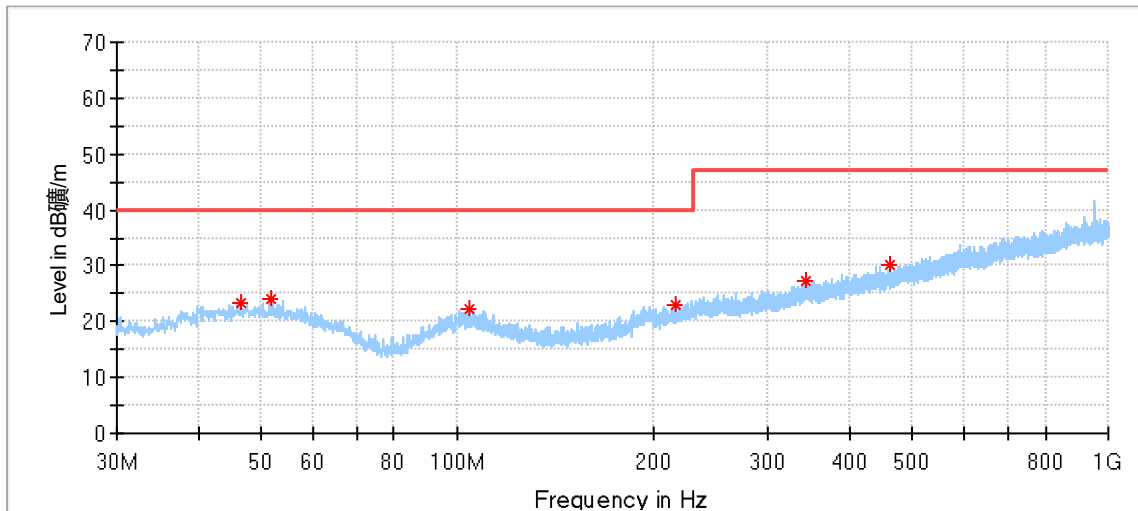
Level=Reading Level + Correction Factor

Correction Factor=Antenna Factor + Cable Loss

(The Reading Level is recorded by software which is not shown in the sheet)

2.3.7 Test Results

M/N: AOK-20WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-22PA-32B)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Test Spec.: Horizontal
 Date of Test: 2023-10-17
 Detailed results are shown below



Critical_Freqs

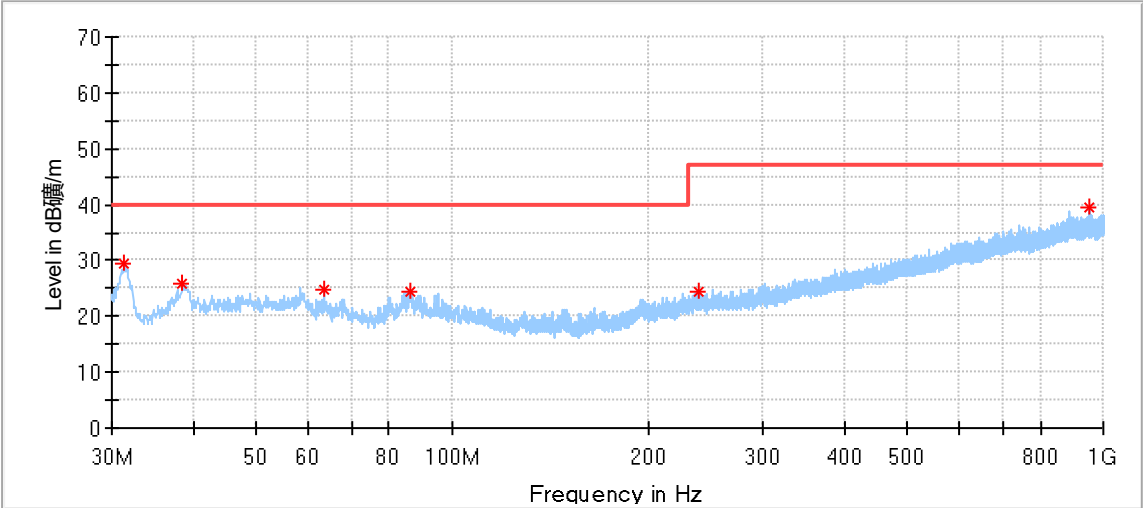
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.436111	23.35	40.00	16.65	200.0	H	277.0	18.36
51.609444	23.92	40.00	16.08	200.0	H	238.0	18.14
104.312778	22.30	40.00	17.70	200.0	H	296.0	16.08
215.862778	22.99	40.00	17.01	200.0	H	335.0	16.07
342.286111	27.38	47.00	19.62	200.0	H	4.0	20.01
462.135000	30.11	47.00	16.89	100.0	H	223.0	22.23

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---



M/N: AOK-20WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-22PA-32B)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: Vertical
Date of Test: 2023-10-17
Detailed results are shown below



Critical_Freqs

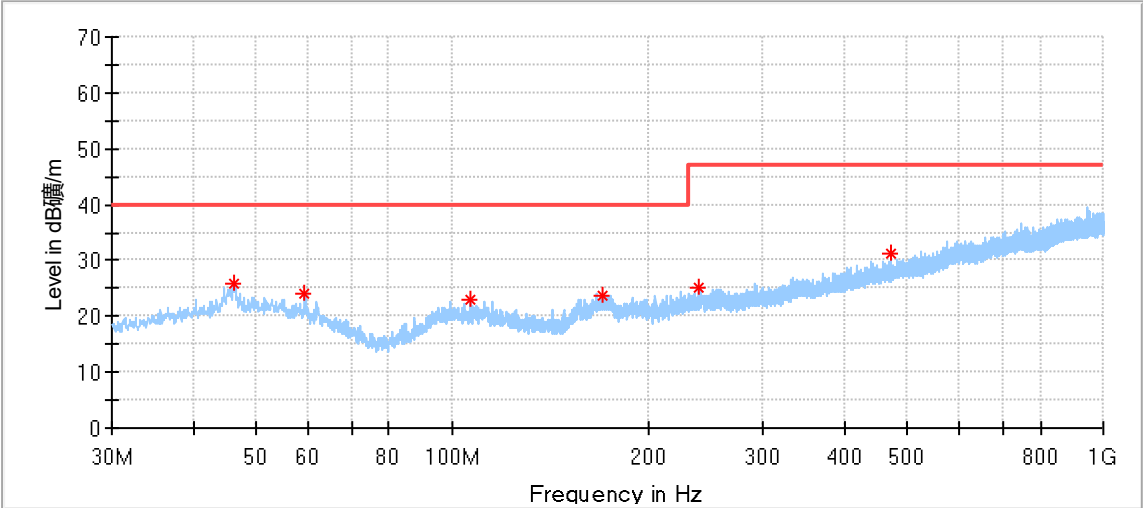
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.401111	29.38	40.00	10.62	100.0	V	104.0	14.13
38.406667	25.82	40.00	14.18	100.0	V	150.0	16.50
63.411111	24.66	40.00	15.34	100.0	V	318.0	15.92
86.475556	24.48	40.00	15.52	100.0	V	112.0	12.70
239.520000	24.36	47.00	22.64	100.0	V	239.0	17.28
951.230556	39.62	47.00	7.38	200.0	V	0.0	29.67

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---



M/N: AOK-20WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-026D038)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: Horizontal
Date of Test: 2023-10-17
Detailed results are shown below



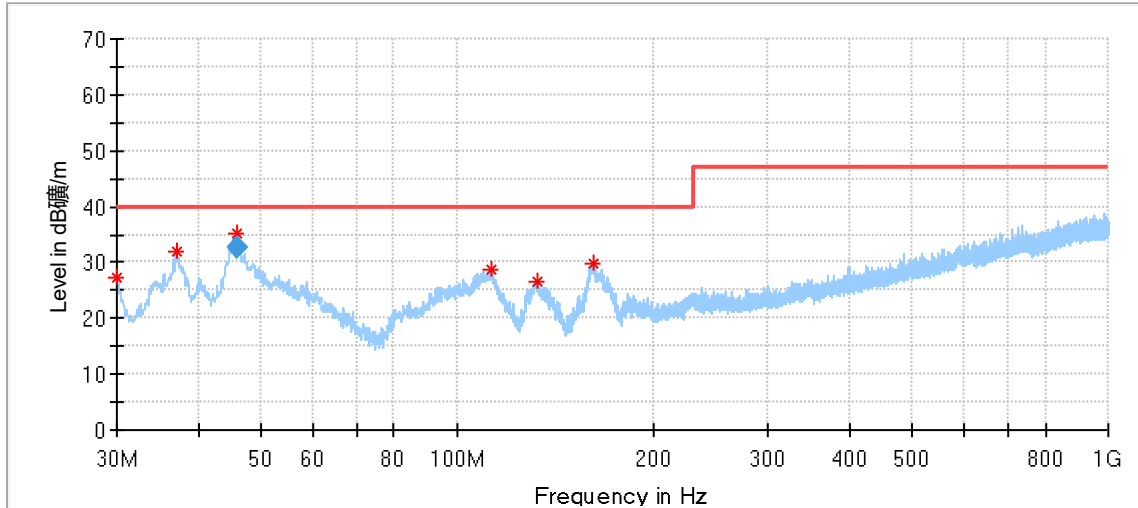
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.112778	25.93	40.00	14.07	100.0	H	226.0	18.32
59.423333	24.12	40.00	15.88	100.0	H	11.0	16.98
106.683889	22.89	40.00	17.11	200.0	H	327.0	15.88
170.757778	23.68	40.00	16.32	200.0	H	155.0	13.65
239.196667	25.13	47.00	21.87	100.0	H	173.0	17.26
471.350000	31.16	47.00	15.84	200.0	H	205.0	22.47

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

M/N: AOK-20WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-026D038)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Test Spec.: Vertical
 Date of Test: 2023-10-17
 Detailed results are shown below



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.053889	27.30	40.00	12.70	100.0	V	0.0	14.11
37.005556	32.11	40.00	7.89	100.0	V	311.0	16.02
45.735556	35.09	40.00	4.91	100.0	V	50.0	18.26
112.665556	28.65	40.00	11.35	100.0	V	332.0	15.19
132.873889	26.44	40.00	13.56	100.0	V	238.0	13.00
161.650556	29.77	40.00	10.23	100.0	V	259.0	13.21

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.735556	32.60	40.00	7.40	100.0	V	50.0	18.26



M/N: AOK-40WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-40PA-54B)

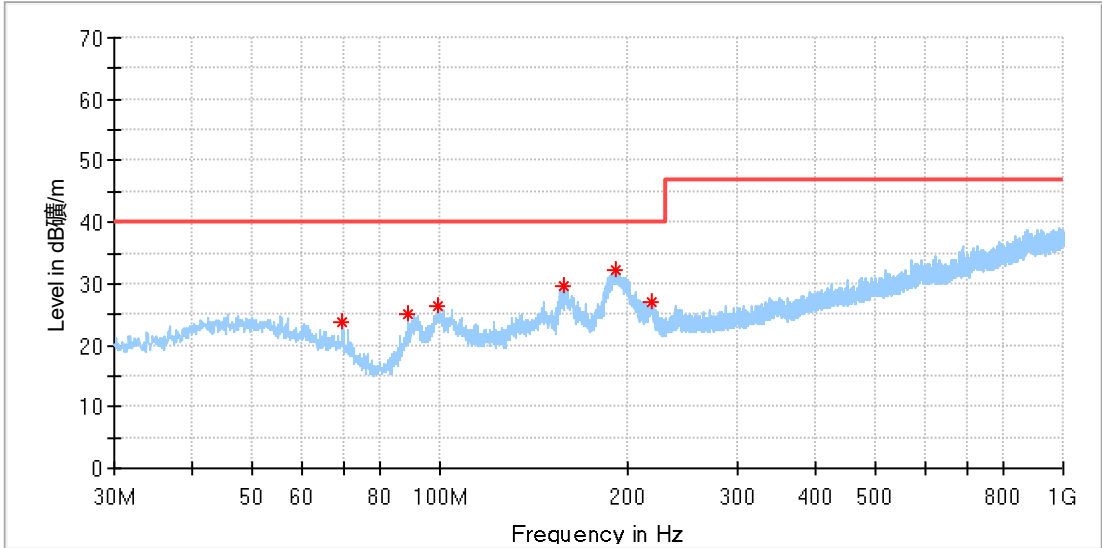
Op Cond.: Lighting

Comment: AC 230V/50Hz

Test Spec.: Horizontal

Date of Test: 2023-10-17

Detailed results are shown below



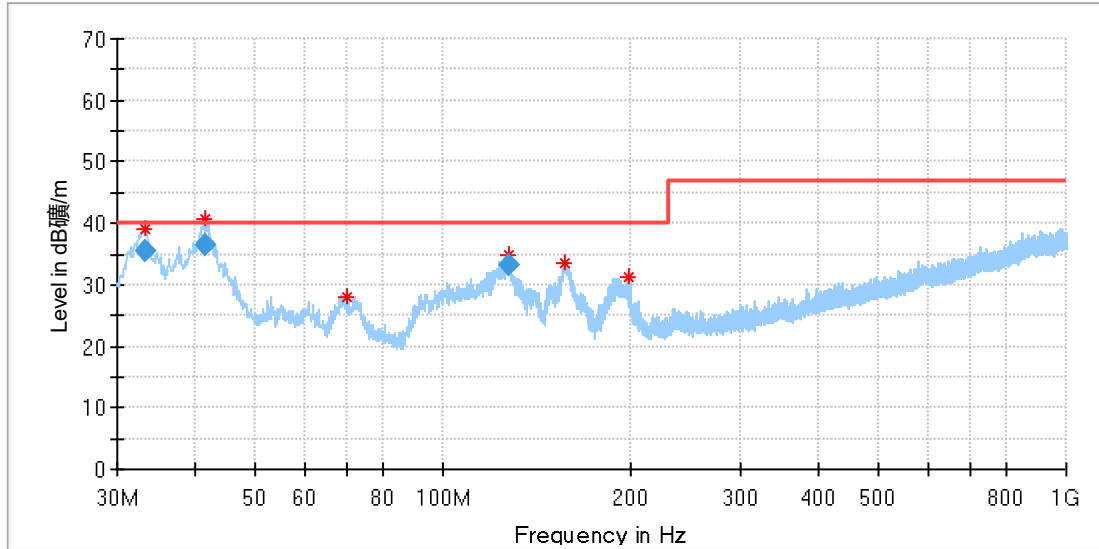
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
69.830625	23.65	40.00	16.35	200.0	H	0.0	16.48
89.048750	25.19	40.00	14.81	200.0	H	347.0	16.25
99.536875	26.48	40.00	13.52	200.0	H	29.0	18.43
158.221875	29.76	40.00	10.24	200.0	H	5.0	15.73
191.444375	32.18	40.00	7.82	200.0	H	0.0	18.26
217.998125	27.02	40.00	12.98	200.0	H	0.0	18.75

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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M/N: AOK-40WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-40PA-54B)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Test Spec.: Vertical
 Date of Test: 2023-10-17
 Detailed results are shown below



Critical_Freqs

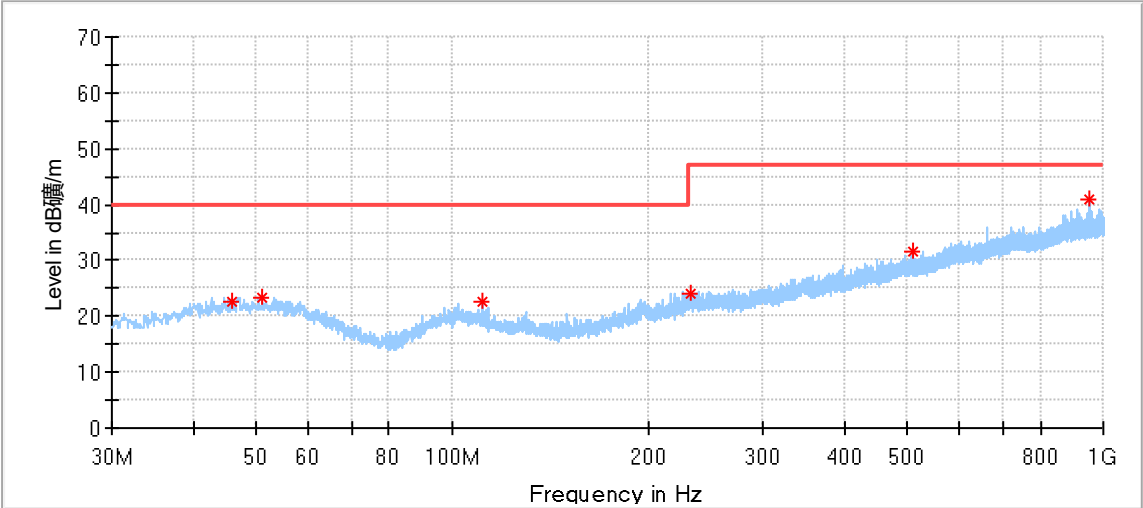
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
33.334375	38.95	40.00	1.05	100.0	V	292.0	17.07
41.397500	40.55	40.00	-0.55	100.0	V	145.0	20.03
70.315625	28.11	40.00	11.89	100.0	V	243.0	16.28
127.424375	34.87	40.00	5.13	100.0	V	346.0	16.17
157.191250	33.70	40.00	6.30	100.0	V	0.0	15.71
197.870625	31.31	40.00	8.69	100.0	V	96.0	19.10

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
33.334375	35.60	40.00	4.40	100.0	V	292.0	17.07
41.397500	36.60	40.00	3.40	100.0	V	145.0	20.03
127.424375	33.11	40.00	6.89	100.0	V	346.0	16.17



M/N: AOK-40WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-040D057)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: Horizontal
Date of Test: 2023-10-17
Detailed results are shown below



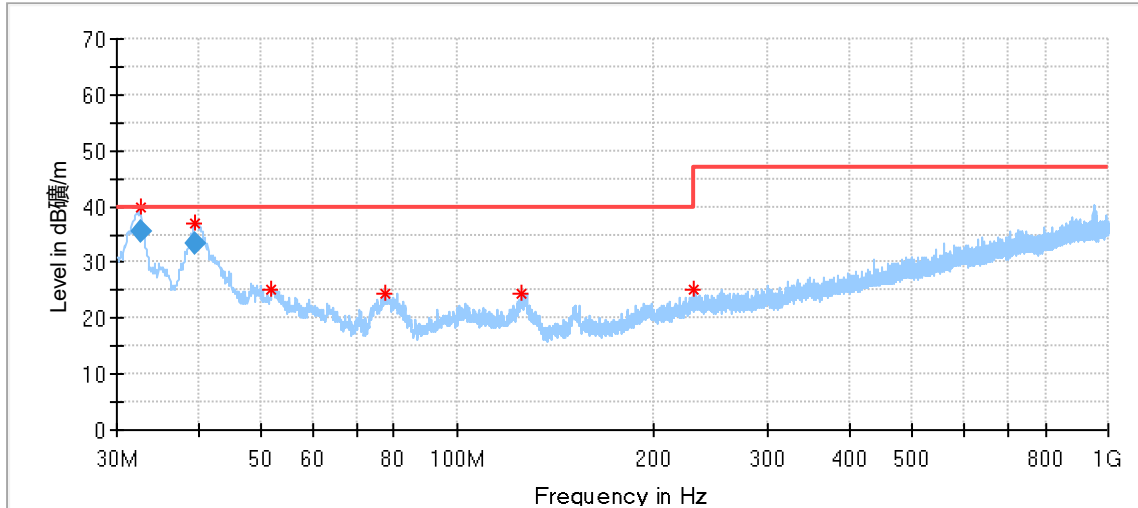
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.735556	22.66	40.00	17.34	200.0	H	255.0	18.26
51.016667	23.41	40.00	16.59	100.0	H	260.0	18.14
111.318333	22.61	40.00	17.39	200.0	H	0.0	15.38
232.730000	24.23	47.00	22.77	100.0	H	138.0	16.94
510.042222	31.48	47.00	15.52	200.0	H	66.0	23.24
950.853333	40.89	47.00	6.11	200.0	H	105.0	29.65

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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M/N: AOK-40WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-040D057)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Test Spec.: Vertical
 Date of Test: 2023-10-17
 Detailed results are shown below



Critical_Freqs

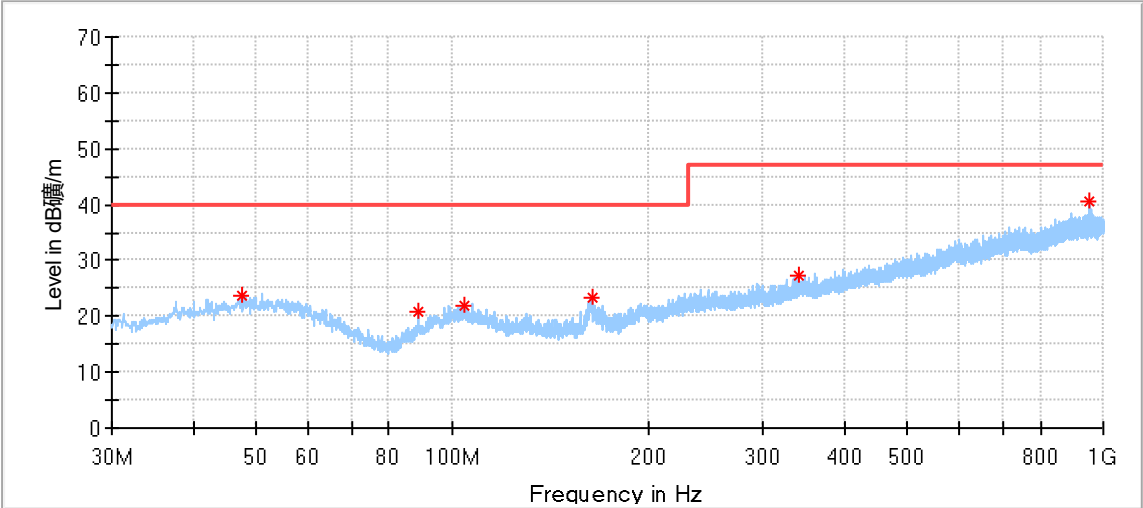
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.586667	39.72	40.00	0.28	100.0	V	176.0	14.33
39.592222	37.04	40.00	2.96	100.0	V	346.0	16.98
51.878889	25.14	40.00	14.86	200.0	V	334.0	18.15
77.476111	24.29	40.00	15.71	100.0	V	58.0	11.01
125.706667	24.55	40.00	15.45	100.0	V	270.0	13.57
231.328889	25.18	47.00	21.82	100.0	V	255.0	16.85

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.586667	35.50	40.00	4.50	100.0	V	176.0	14.33
39.592222	33.55	40.00	6.45	100.0	V	346.0	16.98



M/N: AOK-60WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-060D086)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: Horizontal
Date of Test: 2023-10-17
Detailed results are shown below



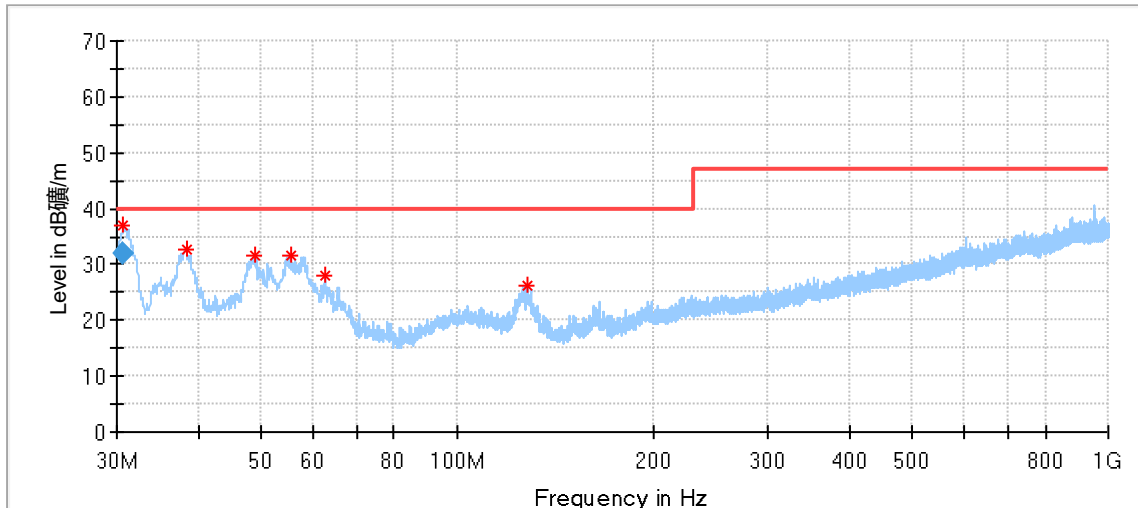
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.406111	23.87	40.00	16.13	100.0	H	326.0	18.34
88.738889	20.88	40.00	19.12	200.0	H	351.0	13.55
104.420556	21.95	40.00	18.05	100.0	H	137.0	16.07
163.698333	23.35	40.00	16.65	100.0	H	14.0	13.40
340.346111	27.11	47.00	19.89	100.0	H	271.0	19.93
952.577778	40.57	47.00	6.43	100.0	H	356.0	29.75

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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M/N: AOK-60WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-060D086)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Test Spec.: Vertical
 Date of Test: 2023-10-17
 Detailed results are shown below



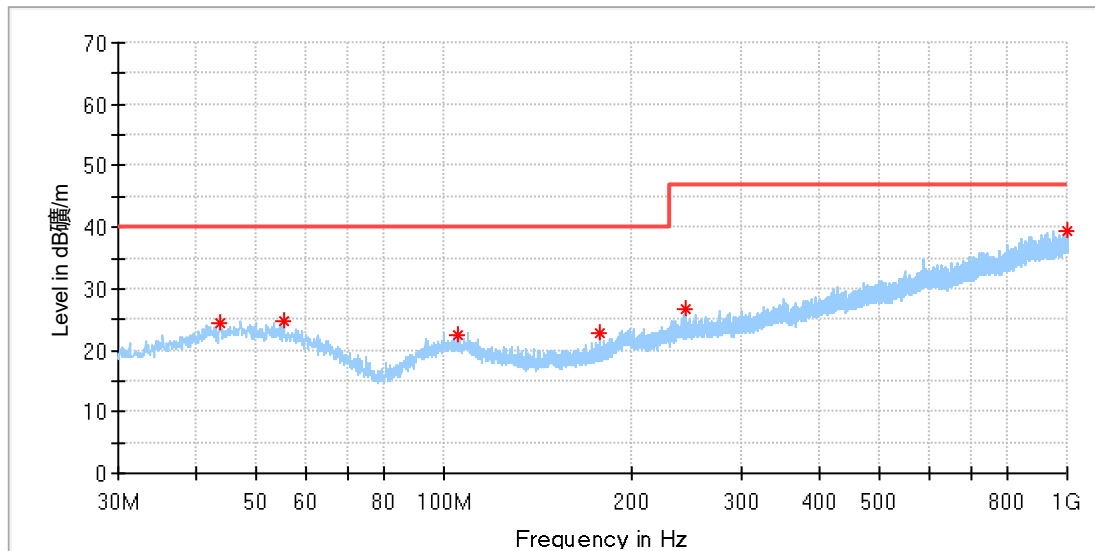
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.646667	37.06	40.00	2.94	100.0	V	302.0	14.04
38.406667	32.70	40.00	7.30	100.0	V	168.0	16.50
48.968889	31.77	40.00	8.23	100.0	V	158.0	18.23
55.381667	31.72	40.00	8.28	100.0	V	176.0	17.77
62.764444	28.07	40.00	11.93	100.0	V	25.0	16.10
128.077778	26.12	40.00	13.88	100.0	V	25.0	13.55

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.646667	31.90	40.00	2.94	100.0	V	302.0	14.04

M/N: AOK-70WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-75PA-108B)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Test Spec.: Horizontal
 Date of Test: 2023-10-17
 Detailed results are shown below



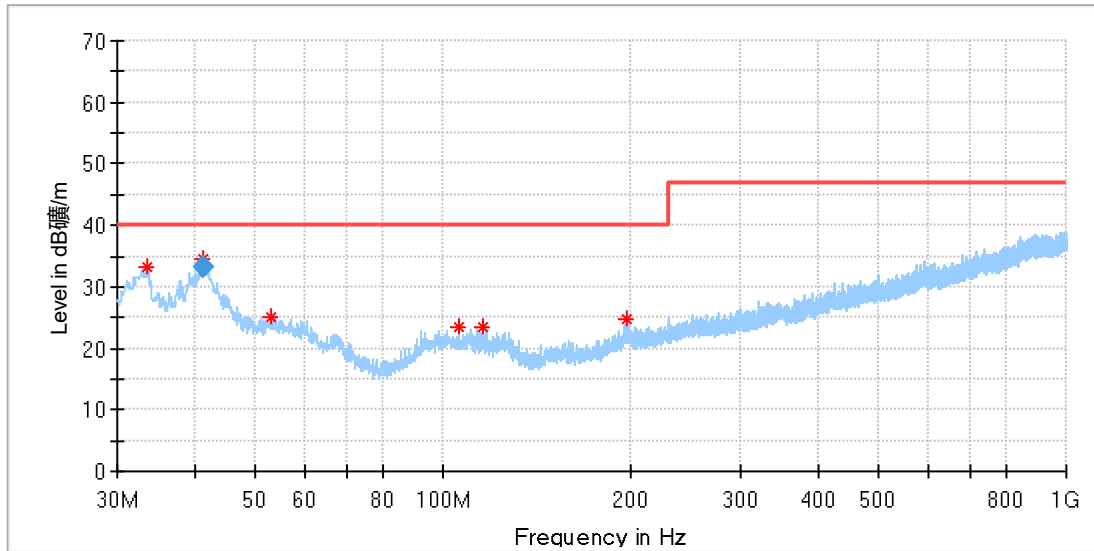
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
43.640625	24.45	40.00	15.55	200.0	H	6.0	20.43
55.401875	24.88	40.00	15.12	200.0	H	76.0	20.55
104.871875	22.41	40.00	17.59	200.0	H	24.0	18.62
178.228125	22.69	40.00	17.31	200.0	H	153.0	16.71
244.188125	26.72	47.00	20.28	100.0	H	0.0	20.18
996.908125	39.35	47.00	7.65	200.0	H	324.0	32.99

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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M/N: AOK-70WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-75PA-108B)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Test Spec.: Vertical
 Date of Test: 2023-10-17
 Detailed results are shown below



Critical_Freqs

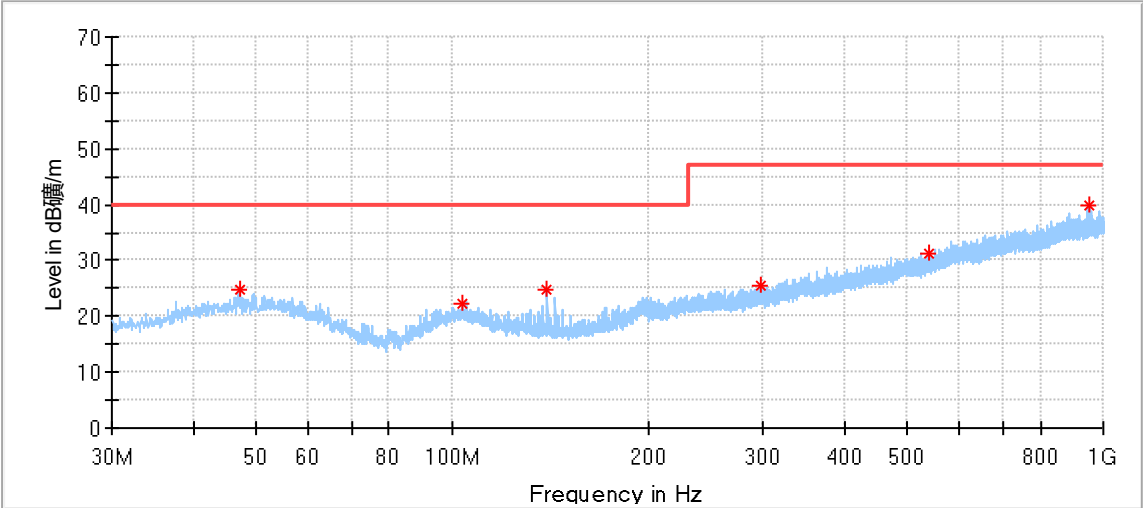
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
33.395000	33.28	40.00	6.72	100.0	V	0.0	17.09
41.094375	34.36	40.00	5.64	100.0	V	1.0	19.94
53.098125	24.96	40.00	15.04	100.0	V	171.0	20.97
105.963125	23.40	40.00	16.60	100.0	V	311.0	18.53
115.541875	23.49	40.00	16.51	100.0	V	83.0	17.32
197.143125	24.60	40.00	15.40	100.0	V	122.0	19.10

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.094375	33.36	40.00	6.64	100.0	V	1.0	19.94



M/N: AOK-70WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-080D115)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: Horizontal
Date of Test: 2023-10-17
Detailed results are shown below



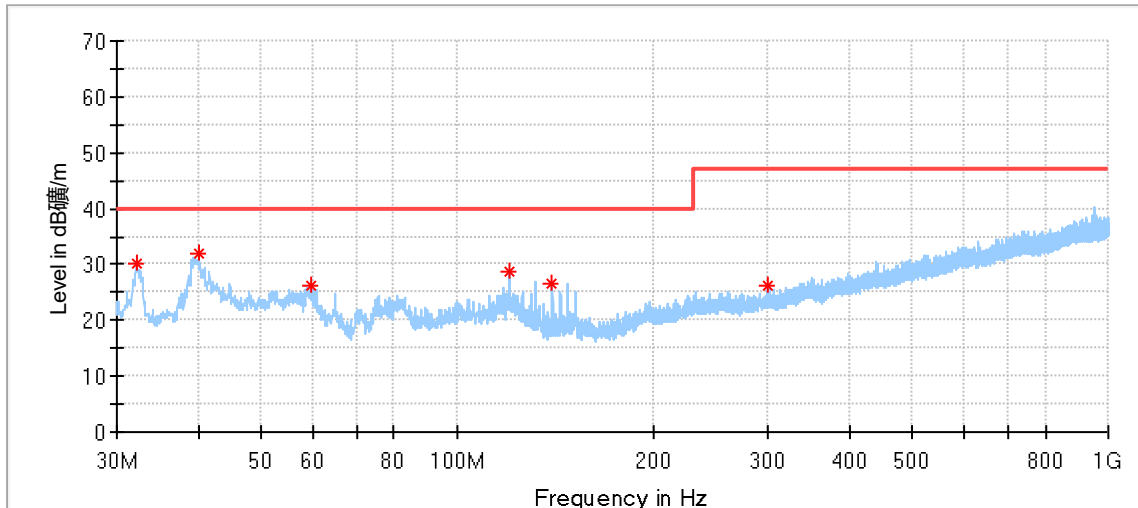
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.244444	24.84	40.00	15.16	100.0	H	4.0	18.37
103.558333	22.23	40.00	17.77	100.0	H	349.0	16.06
139.987222	24.80	40.00	15.20	200.0	H	168.0	12.63
296.750000	25.64	47.00	21.36	200.0	H	184.0	18.46
538.226111	31.30	47.00	15.70	100.0	H	92.0	23.75
951.392222	39.82	47.00	7.18	100.0	H	100.0	29.68

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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M/N: AOK-70WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-080D115)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Test Spec.: Vertical
 Date of Test: 2023-10-17
 Detailed results are shown below



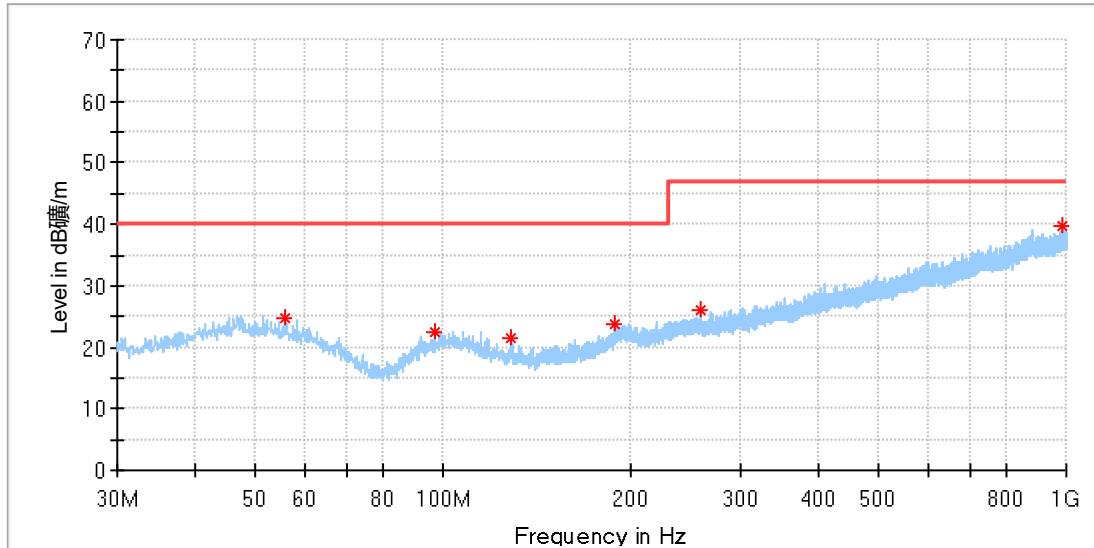
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.155556	30.27	40.00	9.73	100.0	V	271.0	14.28
40.185000	31.78	40.00	8.22	100.0	V	122.0	17.19
59.531111	26.34	40.00	13.66	100.0	V	98.0	16.95
119.994444	28.60	40.00	11.40	100.0	V	137.0	14.21
139.987222	26.66	40.00	13.34	100.0	V	43.0	12.63
300.145000	26.18	47.00	20.82	200.0	V	34.0	18.56

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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M/N: AOK-100WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-110PA-160B)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Test Spec.: Horizontal
 Date of Test: 2023-10-17
 Detailed results are shown below



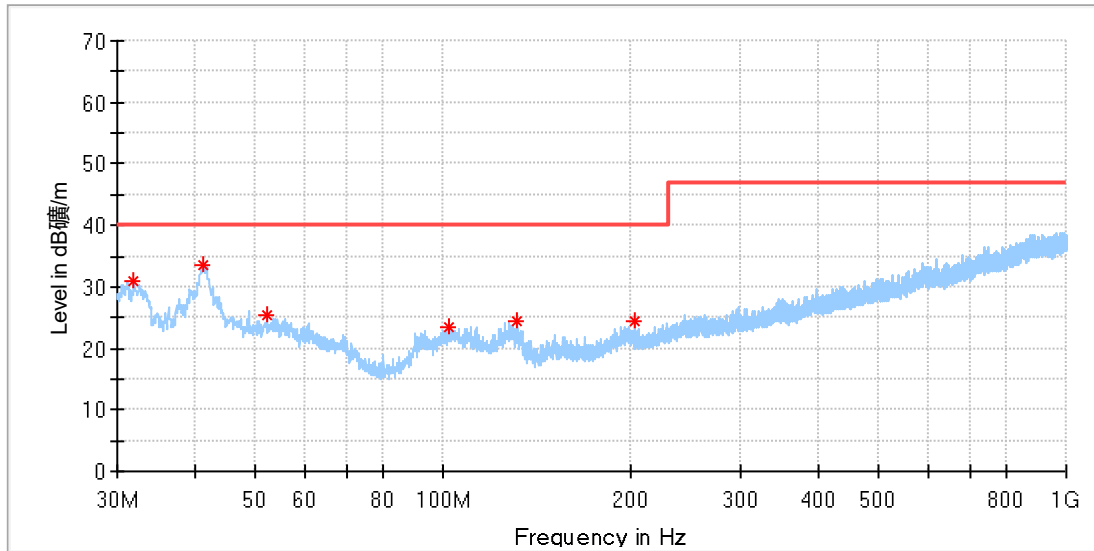
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
55.644375	24.88	40.00	15.12	200.0	H	201.0	20.53
97.233125	22.36	40.00	17.64	200.0	H	227.0	18.22
128.151875	21.46	40.00	18.54	200.0	H	159.0	16.21
188.534375	23.84	40.00	16.16	100.0	H	0.0	17.85
259.223125	26.06	47.00	20.94	200.0	H	124.0	20.67
983.328125	39.65	47.00	7.35	100.0	H	139.0	32.79

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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M/N: AOK-100WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-110PA-160B)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Test Spec.: Vertical
 Date of Test: 2023-10-17
 Detailed results are shown below



Critical_Freqs

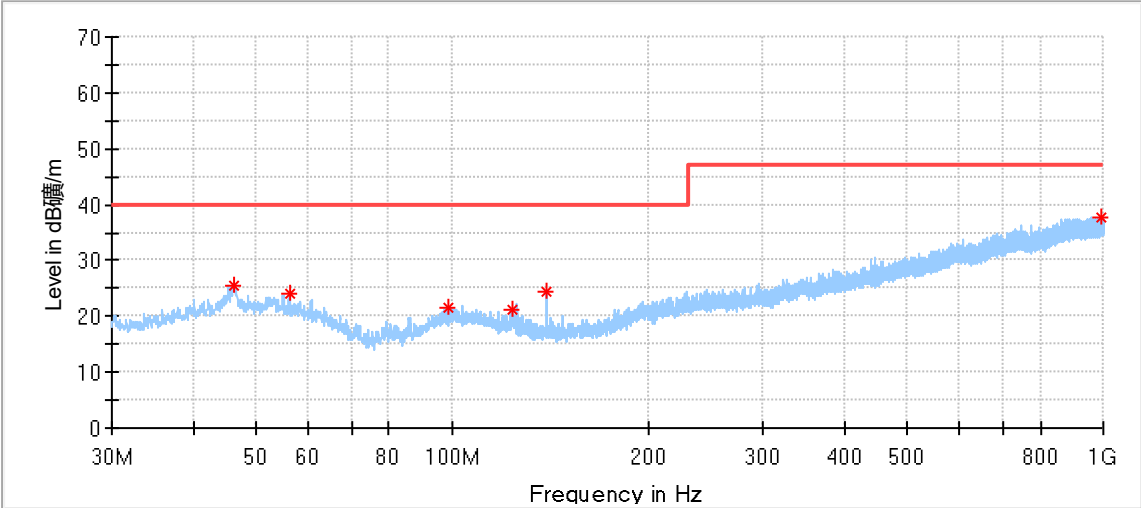
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.940000	30.85	40.00	9.15	100.0	V	1.0	16.63
41.276250	33.64	40.00	6.36	100.0	V	105.0	19.99
52.310000	25.27	40.00	14.73	200.0	V	293.0	20.98
101.961875	23.52	40.00	16.48	200.0	V	78.0	18.70
131.789375	24.51	40.00	15.49	100.0	V	86.0	15.77
203.387500	24.43	40.00	15.57	200.0	V	147.0	18.44

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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M/N: AOK-120WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-120D172)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: Horizontal
Date of Test: 2023-10-17
Detailed results are shown below



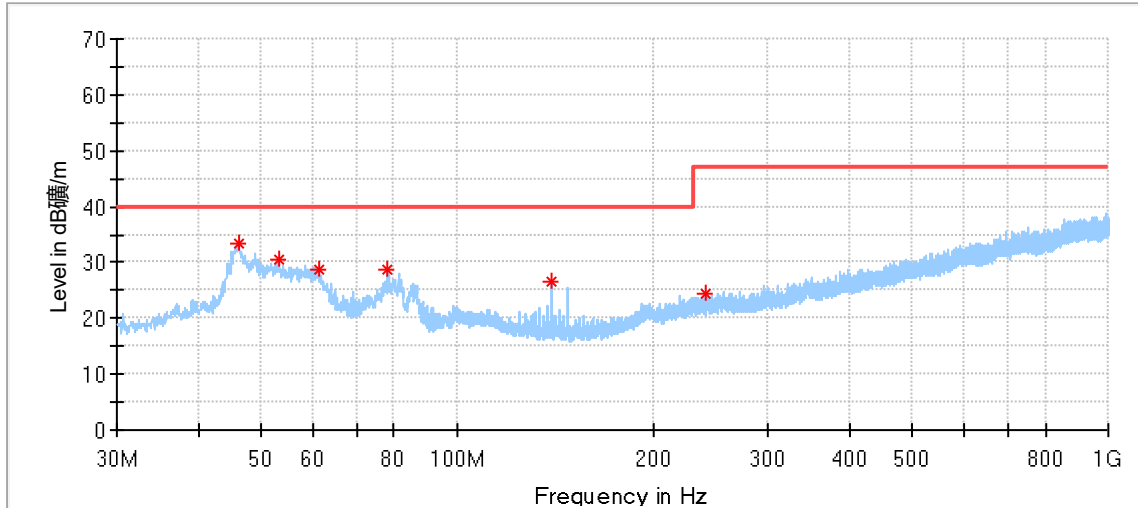
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.058889	25.51	40.00	14.49	100.0	H	45.0	18.32
56.243889	23.98	40.00	16.02	200.0	H	136.0	17.56
98.923889	21.61	40.00	18.39	100.0	H	8.0	15.76
123.928333	21.30	40.00	18.70	200.0	H	0.0	13.83
139.879444	24.54	40.00	15.46	200.0	H	197.0	12.63
994.180000	37.80	47.00	9.20	200.0	H	247.0	30.13

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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M/N: AOK-120WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-120D172)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Test Spec.: Vertical
 Date of Test: 2023-10-17
 Detailed results are shown below



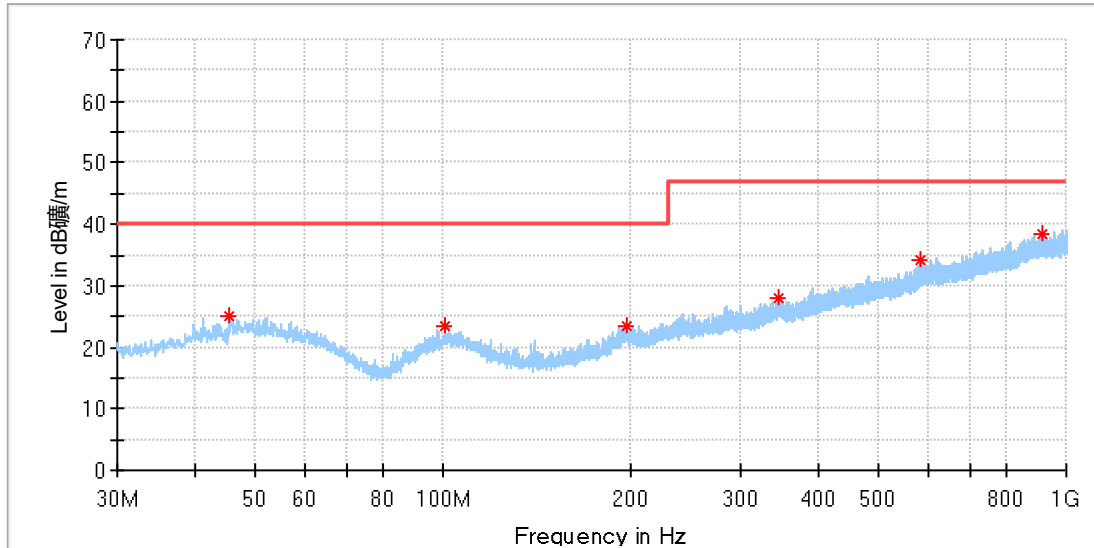
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.112778	33.54	40.00	6.46	100.0	V	163.0	18.32
53.064444	30.49	40.00	9.51	100.0	V	310.0	18.05
61.309444	28.83	40.00	11.17	100.0	V	257.0	16.39
78.338333	28.71	40.00	11.29	200.0	V	254.0	10.93
139.825556	26.52	40.00	13.48	100.0	V	320.0	12.63
240.975000	24.49	47.00	22.51	100.0	V	247.0	17.34

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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M/N: AOK-150WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-165PA-235B)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Test Spec.: Horizontal
 Date of Test: 2023-10-17
 Detailed results are shown below



Critical_Freqs

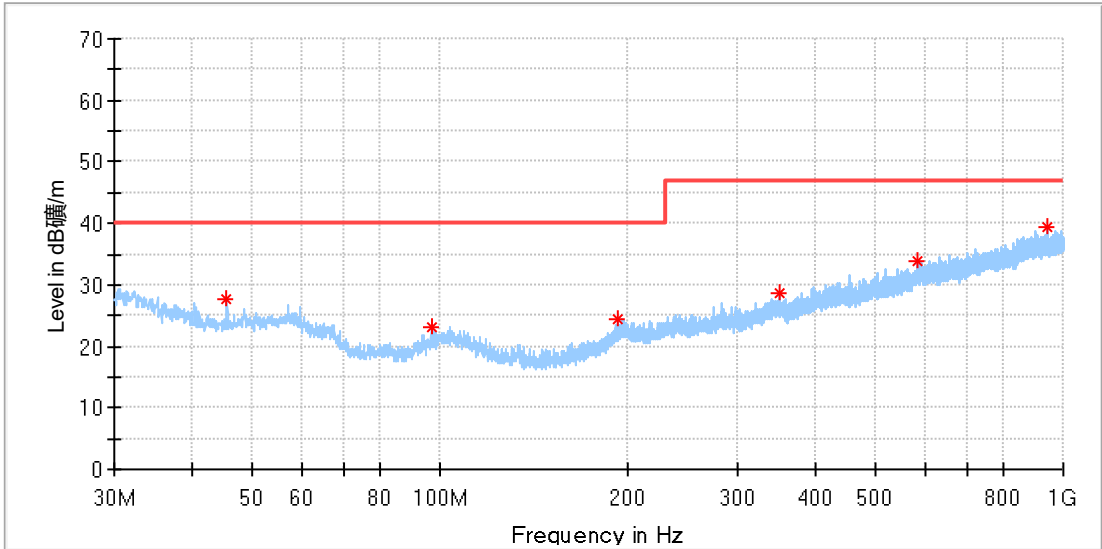
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.338125	25.18	40.00	14.82	200.0	H	181.0	20.57
100.567500	23.45	40.00	16.55	100.0	H	0.0	19.06
196.476250	23.56	40.00	16.44	100.0	H	353.0	19.31
344.583125	27.95	47.00	19.05	100.0	H	68.0	23.08
585.264375	34.31	47.00	12.69	100.0	H	0.0	27.78
917.671250	38.52	47.00	8.48	100.0	H	0.0	32.16

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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M/N: AOK-150WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-165PA-235B)
Op Cond.: Lighting
Comment: AC 230V/50Hz
Test Spec.: Vertical
Date of Test: 2023-10-17
Detailed results are shown below



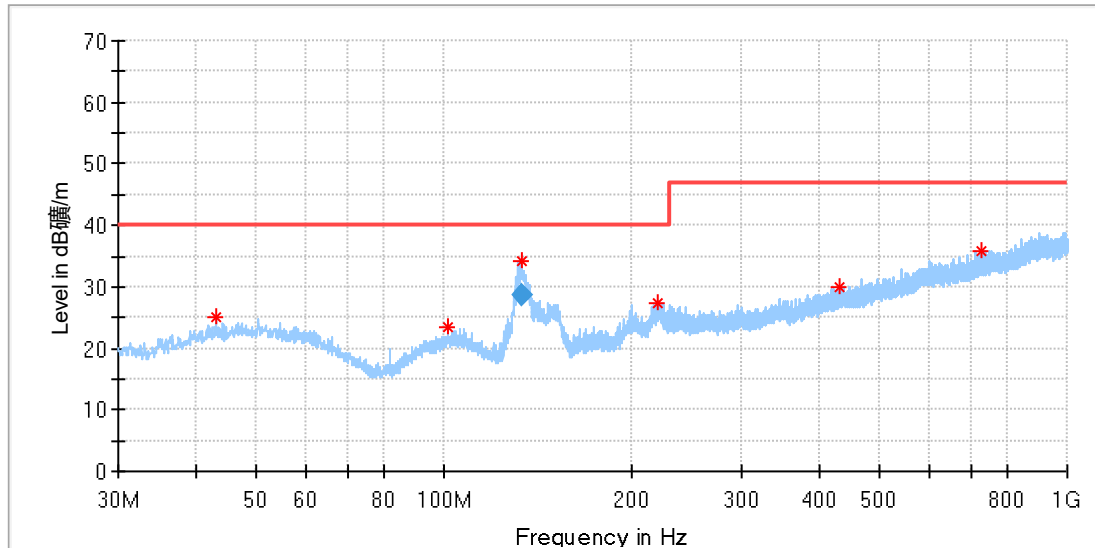
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.520000	27.75	40.00	12.25	100.0	V	323.0	20.59
96.687500	23.19	40.00	16.81	100.0	V	98.0	18.53
193.141875	24.34	40.00	15.66	100.0	V	314.0	18.72
349.736250	28.54	47.00	18.46	100.0	V	255.0	23.33
581.323750	34.00	47.00	13.00	200.0	V	104.0	27.46
942.770000	39.51	47.00	7.49	200.0	V	282.0	32.18

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

M/N: AOK-150WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-165D236)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Test Spec.: Horizontal
 Date of Test: 2023-10-17
 Detailed results are shown below



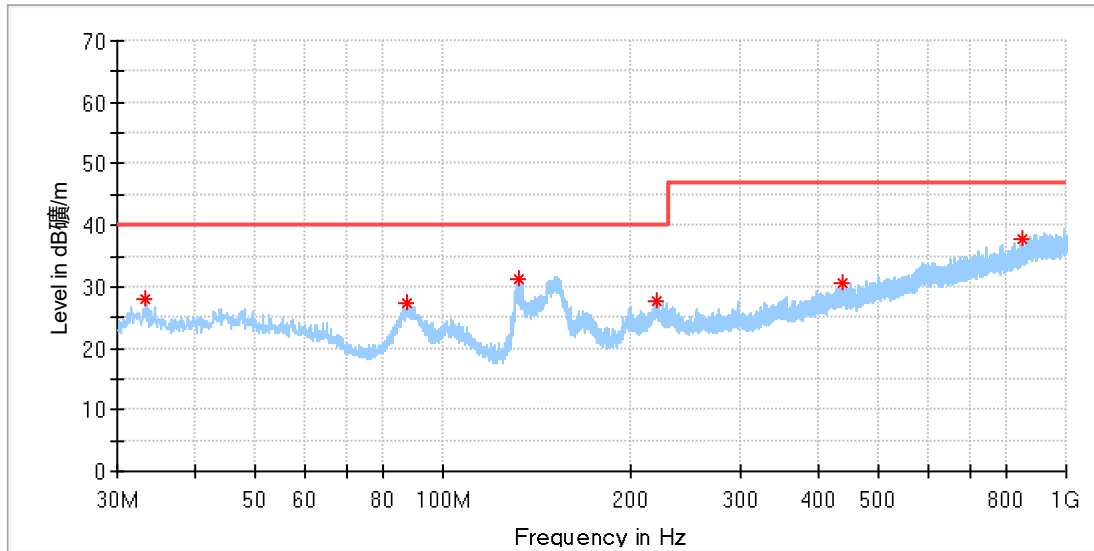
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
43.034375	25.07	40.00	14.93	200.0	H	270.0	20.04
101.295000	23.29	40.00	16.71	200.0	H	331.0	19.14
133.138438	34.16	40.00	5.84	193.0	H	-3.0	15.46
220.847500	27.26	40.00	12.74	100.0	H	199.0	19.05
429.943125	29.88	47.00	17.12	100.0	H	327.0	24.78
727.308750	35.96	47.00	11.04	200.0	H	74.0	29.42

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
133.138438	28.62	40.00	11.38	193.0	H	-3.0	15.45

M/N: AOK-150WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-165D236)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Test Spec.: Vertical
 Date of Test: 2023-10-17
 Detailed results are shown below



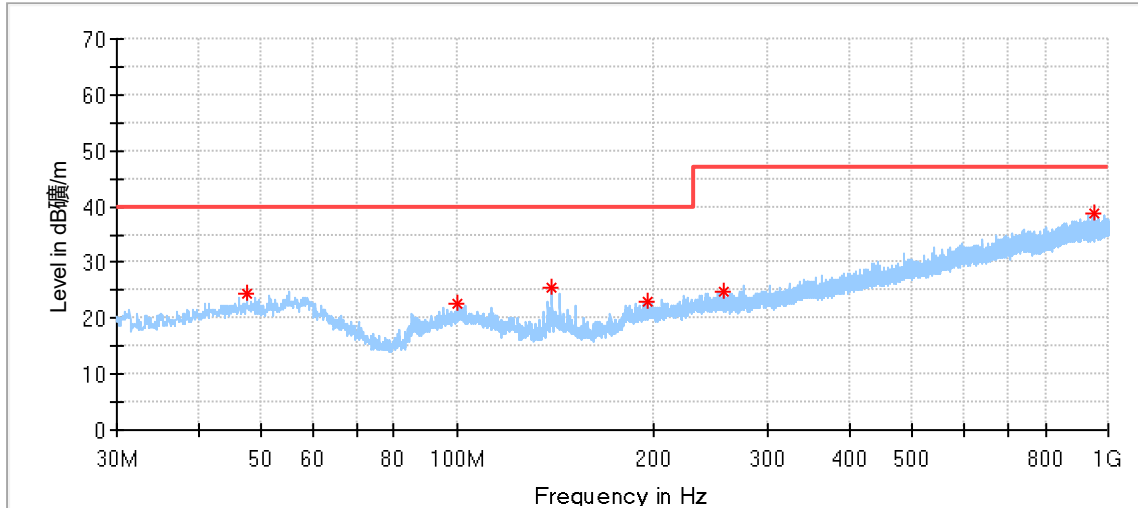
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
33.334375	28.14	40.00	11.86	100.0	V	352.0	16.84
87.715000	27.24	40.00	12.76	100.0	V	244.0	16.01
131.971250	31.39	40.00	8.61	100.0	V	283.0	15.46
219.938125	27.78	40.00	12.22	200.0	V	0.0	18.99
438.066875	30.58	47.00	16.42	200.0	V	0.0	24.74
848.861875	37.78	47.00	9.22	100.0	V	136.0	31.06

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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M/N: AOK-180WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-200D286)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Test Spec.: Horizontal
 Date of Test: 2023-10-17
 Detailed results are shown below



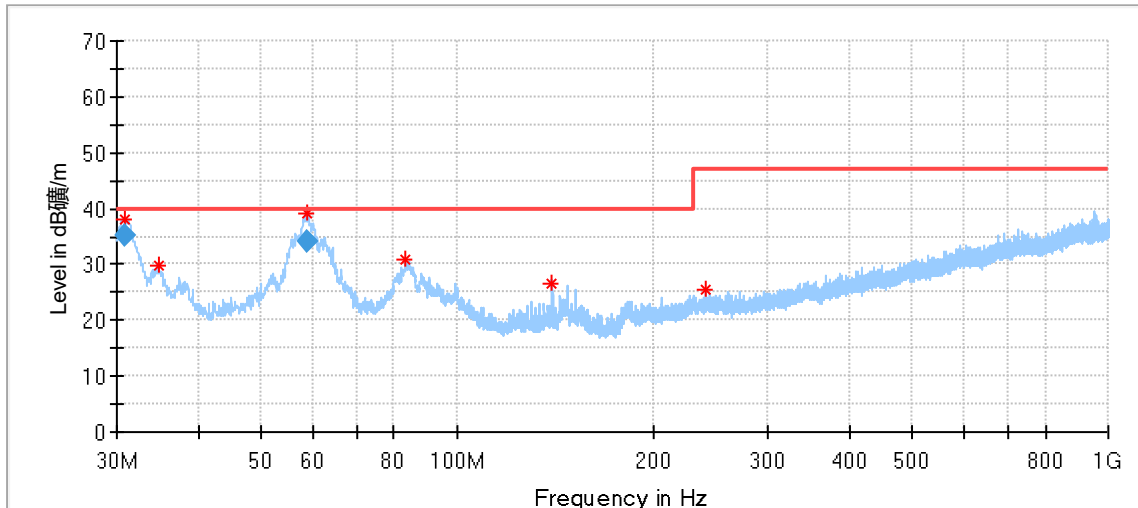
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.513889	24.39	40.00	15.61	200.0	H	75.0	18.32
100.001667	22.47	40.00	17.53	200.0	H	83.0	15.97
139.933333	25.33	40.00	14.67	200.0	H	142.0	12.63
196.247222	22.87	40.00	17.13	200.0	H	356.0	16.42
257.518889	24.69	47.00	22.31	100.0	H	129.0	18.08
950.853333	38.89	47.00	8.11	200.0	H	104.0	29.65

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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M/N: AOK-180WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-200D286)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Test Spec.: Vertical
 Date of Test: 2023-10-17
 Detailed results are shown below

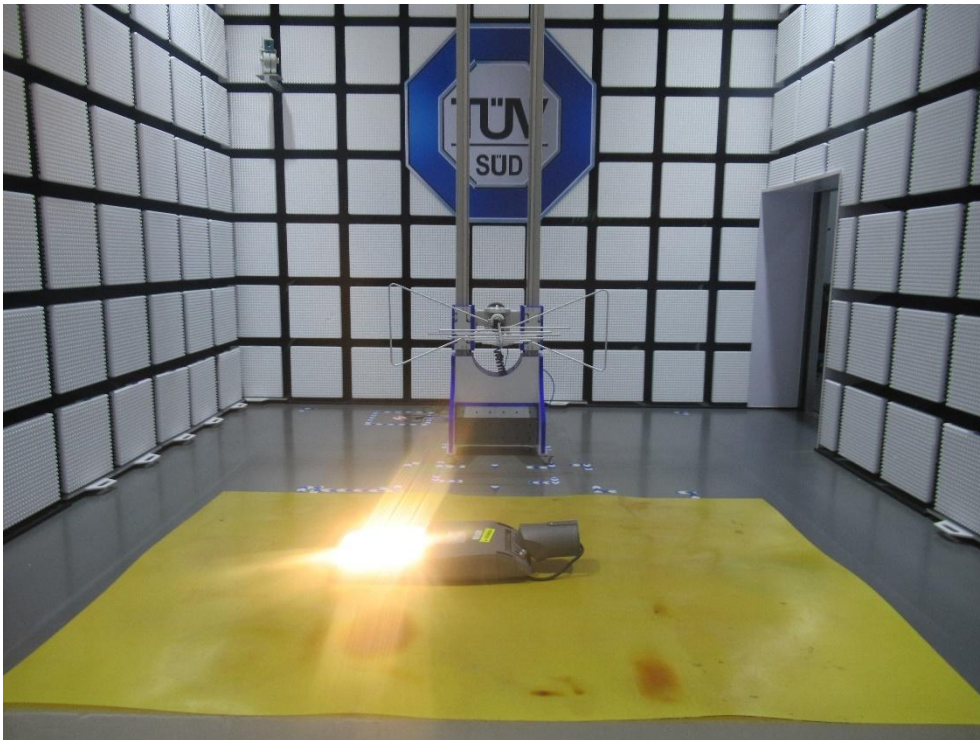


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.754444	38.22	40.00	1.78	100.0	V	0.0	14.04
34.850000	29.94	40.00	10.06	100.0	V	52.0	15.12
58.992222	39.31	40.00	0.69	100.0	V	264.0	17.10
83.134444	31.02	40.00	8.98	100.0	V	115.0	11.62
139.933333	26.71	40.00	13.29	100.0	V	100.0	12.63
240.597778	25.62	47.00	21.38	200.0	V	140.0	17.32

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.754444	35.30	40.00	4.70	100.0	V	0.0	14.04
58.992222	34.20	40.00	5.80	100.0	V	264.0	17.10



Test Setup

2.3.8 Test Location

This test was carried out in 3m anechoic chamber.

2.4 Harmonic current emission

2.4.1 Specification Reference

EN IEC 61000-3-2:2019+A1:2021+A2:2024, Clause 7

2.4.2 Equipment Under Test

AOK-20WiLA-NV-L3-00-6570-T2-P, AOK-40WiLA-NV-L3-00-6570-T2-P, AOK-60WiLA-NV-L3-00-6570-T2-P, AOK-70WiLA-NV-L3-00-6570-T2-P, AOK-100WiLA-NV-L3-00-6570-T2-P, AOK-120WiLA-NV-L3-00-6570-T2-P, AOK-150WiLA-NV-L3-00-6570-T2-P and AOK-180WiLA-NV-L3-00-6570-T2-P

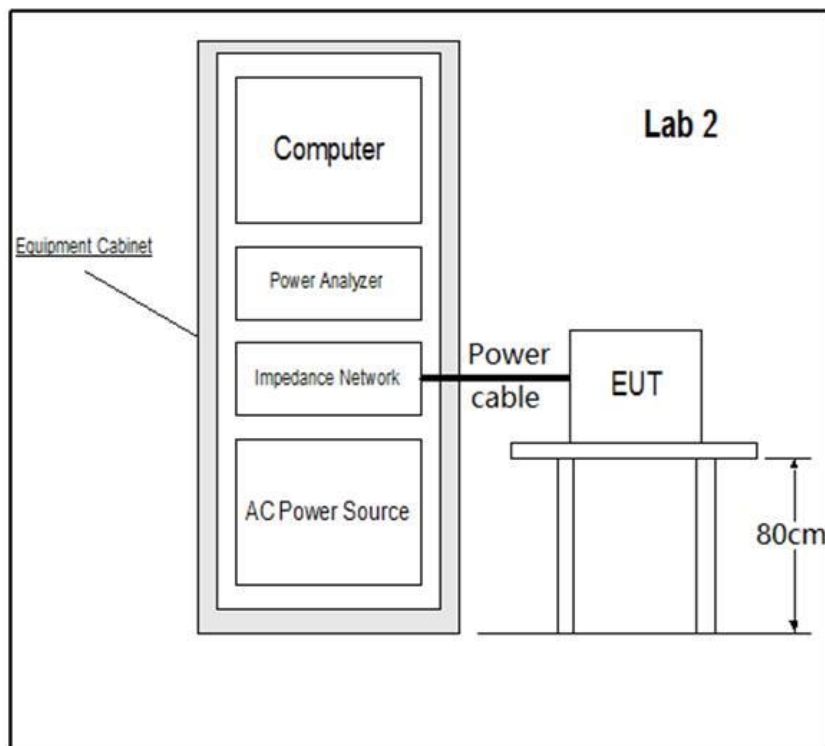
2.4.3 Date of Test

2023-10-18

2.4.4 Test Method

Harmonic current test should be conducted with the user's operation control or automatic programs set to the mode expected to produce the maximum total harmonic current under normal operating conditions.

Specific test conditions for the measurement of harmonic currents associated with some types of equipment are given in test equipment list.



2.4.5 Environmental Conditions

Ambient Temperature	24.5 °C
Relative Humidity	57.9 %
Atmospheric Pressure	1010 mbar

2.4.6 Specification Limits

Limits for class C Equipment active input power > 25W	
Harmonic order	Maximum permissible harmonic current expressed as a percentage of the input current at the fundamental frequency
n	%
2	2
3	27 ^b
5	10
7	7
9	5
$11 \leq h \leq 39$	3
(odd harmonics only)	
"b": The limit is determined based on the assumption of modern lighting technologies having power factors of 0,90 or higher.	

Limits for class C Equipment active input power $\geq 5W$ and $\leq 25W$	
Harmonic order	Maximum permissible harmonic current per watt mA/W
h	
3	3.4
5	1.9
7	1.0
9	0.5
11	0.35
$13 \leq h \leq 39$ (odd harmonic only)	3.85/h
Lighting equipment having a rated power greater than or equal to 5 W and less than or equal to 25 W shall comply with one of the following three sets of requirements: – the harmonic currents shall not exceed the power-related limits of Table 3, column 2; – the third harmonic current, expressed as a percentage of the fundamental current, shall not exceed 86 % and the fifth harmonic current shall not exceed 61 %. In addition, the waveform of the input current shall be such that it reaches the 5 % current threshold before or at 60°, has its peak value before or at 65° and does not fall below the 5 % current threshold before 90°, referenced to any zero crossing of the fundamental supply voltage. The current threshold is 5 % of the highest absolute peak value that occurs in the measurement window, and the phase angle measurements are made on the cycle that includes this absolute peak value (see Figure 2). Components of current with frequencies above 9 kHz shall not influence this evaluation (a filter similar to the one described in 5.3 of IEC 61000-4-7:2002 and IEC 61000-4-7:2002/AMD1:2008 may be used); – the THD shall not exceed 70 %. The third order harmonic current, expressed as a percentage of the fundamental current, shall not exceed 35 %, the fifth order current shall not exceed 25 %, the seventh order current shall not exceed 30 %, the ninth and eleventh order currents shall not exceed 20 % and the second order current shall not exceed 5 %	

2.4.7 Test Results

M/N: AOK-20WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-22PA-32B)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Date of Test: 2023-10-18
 Detailed results are shown below

Standard Group: Industry
 Standard Name: IEC 61000-3-2 (Edition 5.1)
 Limits for harmonic current emissions (equipment input current < 16 A per phase)
 Device Under Test: **PASS**
 Power Source: **PASS**
 Connection Type: L - N
 Main Line: 230 V, 50 Hz
 Classification: Class C (Rated power ≥ 5 W and ≤ 25 W, Power-related limits)
 Appli. of Limits: less than or equal to 150 % (Without POHC Enhancement)
 Test Duration: **2 min 30 s**

Check Harmonics 2..40			
<i>First detected harmonic order > 150 %</i>			
Line 1:	None		
<i>Harmonics orders > 150 %</i>			
Line 1:	None		
<i>Harmonics orders with average > 100 %</i>			
Line 1:	None		

Measured values			
<i>Fundamental Current</i>			
Line 1:	0.096 A		
<i>Active input Power</i>			
Line 1:	20.386 W *		
<i>Circuit power factor</i>			
Line 1:	0.916 *		

* Absolute value.

Prerequisite for simplified method fulfilled			
<i>First time window with THD(I) > 15 %</i>			
Line 1:	None		
<i>Time window with max THD(I) > 15 %</i>			
Line 1:	None		
<i>Current emission below 60 % of the applicable limits</i>			
Line 1:	No		
<i>Active Input Power</i>			

Line 1: 20 W *

* **Absolute value.****Current Test Result**

Average and Maximum harmonic current results									
Hn	Average				Maximum				Harmonic Result
	I _{eff} [A]	of Limit [%]	Limit [A]	Result	I _{eff} [A]	of Limit [%]	Limit [A]	Result	
1	0.096				0.096				
2	0.001				0.001				
3	0.004	5.517	0.069	n/a	0.004	3.896	0.104	n/a	PASS
4	0.001				0.001				
5	0.003	8.204	0.039	n/a	0.003	5.777	0.058	n/a	PASS
6	0.001				0.001				
7	0.002	12.118	0.020	n/a	0.003	8.416	0.031	n/a	PASS
8	0.001				0.001				
9	0.002	22.761	0.010	n/a	0.002	15.820	0.015	n/a	PASS
10	0.001				0.001				
11	0.002	32.618	0.007	n/a	0.002	22.530	0.011	n/a	PASS
12	0.001				0.001				
13	0.001	21.336	0.006	n/a	0.001	15.598	0.009	n/a	PASS
14	0.001				0.001				
15	0.002	34.929	0.005	n/a	0.002	24.843	0.008	n/a	PASS
16	0.001				0.001				
17	0.002	35.568	0.005	n/a	0.002	24.967	0.007	n/a	PASS
18	0.001				0.001				
19	0.001	35.102	0.004	n/a	0.002	24.738	0.006	n/a	PASS
20	0.001				0.001				
21	0.001	28.793	0.004	n/a	0.001	21.003	0.006	n/a	PASS
22	0.001				0.001				
23	0.001	27.452	0.003	n/a	0.001	22.096	0.005	n/a	PASS
24	0.001				0.001				
25	0.001	25.928	0.003	n/a	0.001	19.151	0.005	n/a	PASS
26	0.001				0.001				
27	0.001	27.433	0.003	n/a	0.001	20.718	0.004	n/a	PASS
28	0.001				0.001				
29	0.001	25.241	0.003	n/a	0.001	19.784	0.004	n/a	PASS
30	0.001				0.001				
31	0.001	41.199	0.003	n/a	0.001	30.409	0.004	n/a	PASS
32	0.001				0.001				
33	0.001	41.065	0.002	n/a	0.001	30.655	0.004	n/a	PASS
34	0.001				0.001				
35	0.001	44.401	0.002	n/a	0.001	32.503	0.003	n/a	PASS
36	0.001				0.001				
37	0.001	35.992	0.002	n/a	0.001	27.237	0.003	n/a	PASS

38	0.001				0.001				
39	0.001	48.219	0.002	n/a	0.001	36.175	0.003	n/a	PASS
40	0.001				0.001				

Note: Harmonic currents less than 0.6 % of the input current measured under the test conditions, or less than 5 mA, whichever is greater, are disregarded.

Maximum / Average Values

		Line 1
<i>Maximum Values</i>		
	Frequency	50 Hz
	Voltage RMS	231.0 V
	Current RMS	0.09672 A
	Peak Current	0.1486 A
	Fundamental Current	0.09623 A
	Current Crest Factor	1.547
	Active Power P	20.44 W
	Power Factor	0.9173
	Total Harmonic Current (THC)	8.432e-3 A
	Instantaneous Partial Odd Harmonic Current (Inst. POHC)	3.249e-3 A
	Total Harmonic Distortion Current (THDC)	0.08782
<i>Average Values</i>		
	Total Harmonic Current (THC)	8.252e-3 A
	Instantaneous Partial Odd Harmonic Current (Inst. POHC)	2.913e-3 A
	Total Harmonic Distortion Current (THDC)	0.08594

M/N: AOK-20WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-026D038)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Date of Test: 2023-10-18
 Detailed results are shown below

Standard Group: Industry
 Standard Name: IEC 61000-3-2 (Edition 5.1)
 Limits for harmonic current emissions (equipment input current < 16 A per phase)
 Device Under Test: **PASS**
 Power Source: **PASS**
 Connection Type: L - N
 Main Line: 230 V, 50 Hz
 Classification: Class C (Rated power ≥ 5 W and ≤ 25 W, Power-related limits)
 Appli. of Limits: less than or equal to 150 % (Without POHC Enhancement)

Test Duration: **2 min 30 s**

Check Harmonics 2..40			
<i>First detected harmonic order > 150 %</i>			
Line 1:	None		
<i>Harmonics orders > 150 %</i>			
Line 1:	None		
<i>Harmonics orders with average > 100 %</i>			
Line 1:	None		

Measured values			
<i>Fundamental Current</i>			
Line 1:	0.085 A		
<i>Active input Power</i>			
Line 1:	19.169 W *		
<i>Circuit power factor</i>			
Line 1:	0.967 *		

* *Absolute value.*

Prerequisite for simplified method fulfilled			
<i>First time window with THD(I) > 15 %</i>			
Line 1:	None		
<i>Time window with max THD(I) > 15 %</i>			
Line 1:	None		
<i>Current emission below 60 % of the applicable limits</i>			
Line 1:	No		
<i>Active Input Power</i>			
Line 1:	19 W *		

* ***Absolute value.***

Current Test Result

Average and Maximum harmonic current results									
Hn	Average				Maximum				Harmonic Result
	I _{eff} [A]	of Limit [%]	Limit [A]	Result	I _{eff} [A]	of Limit [%]	Limit [A]	Result	
1	0.084				0.085				
2	0.001				0.001				
3	0.012	18.383	0.065	PASS	0.012	12.573	0.098	PASS	PASS
4	0.001				0.001				
5	0.003	8.337	0.036	n/a	0.003	6.087	0.055	n/a	PASS
6	0.001				0.001				
7	0.003	13.930	0.019	n/a	0.003	9.745	0.029	n/a	PASS
8	0.001				0.001				
9	0.001	14.087	0.010	n/a	0.001	10.201	0.014	n/a	PASS
10	0.001				0.001				
11	0.002	33.866	0.007	n/a	0.002	23.697	0.010	n/a	PASS
12	0.001				0.001				
13	0.001	20.727	0.006	n/a	0.001	15.861	0.009	n/a	PASS
14	0.001				0.001				
15	0.001	18.732	0.005	n/a	0.001	13.858	0.007	n/a	PASS
16	0.001				0.001				
17	0.001	21.715	0.004	n/a	0.001	16.491	0.007	n/a	PASS
18	0.001				0.001				
19	0.001	27.630	0.004	n/a	0.001	20.545	0.006	n/a	PASS
20	0.001				0.001				
21	0.001	36.490	0.004	n/a	0.001	26.484	0.005	n/a	PASS
22	0.001				0.001				
23	0.001	41.738	0.003	n/a	0.001	29.856	0.005	n/a	PASS
24	0.001				0.001				
25	0.001	38.399	0.003	n/a	0.001	27.698	0.004	n/a	PASS
26	0.001				0.001				
27	0.001	25.293	0.003	n/a	0.001	19.005	0.004	n/a	PASS
28	0.001				0.001				
29	0.001	31.627	0.003	n/a	0.001	24.767	0.004	n/a	PASS
30	0.001				0.001				
31	0.001	44.998	0.002	n/a	0.001	32.596	0.004	n/a	PASS
32	0.001				0.001				
33	0.001	37.131	0.002	n/a	0.001	28.346	0.003	n/a	PASS
34	0.001				0.001				
35	0.001	33.976	0.002	n/a	0.001	26.318	0.003	n/a	PASS
36	0.001				0.001				
37	0.001	35.633	0.002	n/a	0.001	26.600	0.003	n/a	PASS
38	0.001				0.001				
39	0.001	41.376	0.002	n/a	0.001	30.485	0.003	n/a	PASS

40	0.001				0.001				
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Note: Harmonic currents less than 0.6 % of the input current measured under the test conditions, or less than 5 mA, whichever is greater, are disregarded.

Maximum / Average Values

		Line 1
<i>Maximum Values</i>		
Frequency		50 Hz
Voltage RMS		231.0 V
Current RMS		0.08545 A
Peak Current		0.1465 A
Fundamental Current		0.08506 A
Current Crest Factor		1.723
Active Power P		19.24 W
Power Factor		0.9681
Total Harmonic Current (THC)		0.01412 A
Instantaneous Partial Odd Harmonic Current (Inst. POHC)		3.446e-3 A
Total Harmonic Distortion Current (THDC)		0.1667
<i>Average Values</i>		
Total Harmonic Current (THC)		0.01381 A
Instantaneous Partial Odd Harmonic Current (Inst. POHC)		3.075e-3 A
Total Harmonic Distortion Current (THDC)		0.1630

M/N: AOK-40WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-40PA-54B)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Date of Test: 2023-10-18
 Detailed results are shown below

Standard Group: Industry
 Standard Name: IEC 61000-3-2 (Edition 5.1)
 Limits for harmonic current emissions (equipment input current < 16 A per phase)
 Device Under Test: **PASS**
 Power Source: **PASS**
 Connection Type: L - N
 Main Line: 230 V, 50 Hz
 Classification: Class C (Rated power > 25 W, Table 2)
 Appli. of Limits: less than or equal to 150 % (Without POHC Enhancement)
 Test Duration: **2 min 30 s**

Check Harmonics 2..40			
<i>First detected harmonic order > 150 %</i>			
Line 1:	None		
<i>Harmonics orders > 150 %</i>			
Line 1:	None		
<i>Harmonics orders with average > 100 %</i>			
Line 1:	None		

Measured values			
<i>Fundamental Current</i>			
Line 1:	0.179 A		
<i>Active input Power</i>			
Line 1:	40.495 W *		
<i>Circuit power factor</i>			
Line 1:	0.977 *		

* *Absolute value.*

Prerequisite for simplified method fulfilled			
<i>First time window with THD(I) > 15 %</i>			
Line 1:	None		
<i>Time window with max THD(I) > 15 %</i>			
Line 1:	None		
<i>Current emission below 60 % of the applicable limits</i>			
Line 1:	No		
<i>Active Input Power</i>			
Line 1:	40 W *		

* ***Absolute value.***

Current Test Result

Average and Maximum harmonic current results									
Hn	Average				Maximum				Harmonic Result
	I _{eff} [%]	of Limit [%]	Limit [%]	Result	I _{eff} [%]	of Limit [%]	Limit [%]	Result	
1	99.464				99.912				
2	0.320	15.997	2.000	n/a	0.363	12.116	3.000	n/a	PASS
3	2.142	7.935	27.000	n/a	2.297	5.671	40.500	n/a	PASS
4	0.389				0.435				
5	1.308	13.084	10.000	n/a	1.429	9.525	15.000	n/a	PASS
6	0.348				0.388				
7	1.191	17.009	7.000	n/a	1.251	11.911	10.500	n/a	PASS
8	0.340				0.386				
9	0.907	18.137	5.000	n/a	0.983	13.105	7.500	n/a	PASS
10	0.332				0.369				
11	1.038	34.586	3.000	n/a	1.102	24.485	4.500	n/a	PASS
12	0.844				0.921				
13	0.794	26.467	3.000	n/a	0.853	18.946	4.500	n/a	PASS
14	0.399				0.473				
15	0.872	29.053	3.000	n/a	0.944	20.974	4.500	n/a	PASS
16	0.410				0.458				
17	0.909	30.296	3.000	n/a	0.979	21.747	4.500	n/a	PASS
18	0.312				0.341				
19	0.609	20.303	3.000	n/a	0.656	14.575	4.500	n/a	PASS
20	0.395				0.437				
21	0.843	28.100	3.000	n/a	0.914	20.311	4.500	n/a	PASS
22	0.582				0.627				
23	0.689	22.961	3.000	n/a	0.763	16.963	4.500	n/a	PASS
24	0.347				0.406				
25	0.676	22.544	3.000	n/a	0.729	16.190	4.500	n/a	PASS
26	0.440				0.484				
27	0.701	23.376	3.000	n/a	0.757	16.829	4.500	n/a	PASS
28	0.320				0.344				
29	0.745	24.839	3.000	n/a	0.802	17.813	4.500	n/a	PASS
30	0.338				0.376				
31	0.526	17.533	3.000	n/a	0.586	13.027	4.500	n/a	PASS
32	0.309				0.347				
33	0.499	16.640	3.000	n/a	0.563	12.514	4.500	n/a	PASS
34	0.318				0.351				
35	0.488	16.255	3.000	n/a	0.556	12.346	4.500	n/a	PASS
36	0.311				0.348				
37	0.370	12.331	3.000	n/a	0.411	9.138	4.500	n/a	PASS
38	0.305				0.332				



39	0.589	19.629	3.000	n/a	0.634	14.084	4.500	n/a	PASS
40	0.302				0.346				

Note: Harmonic currents less than 0.6 % of the input current measured under the test conditions, or less than 5 mA, whichever is greater, are disregarded.

Maximum / Average Values

		Line 1
<i>Maximum Values</i>		
	Frequency	50 Hz
	Voltage RMS	230.9 V
	Current RMS	0.1794 A
	Peak Current	0.2728 A
	Fundamental Current	0.1796 A
	Current Crest Factor	1.529
	Active Power P	40.56 W
	Power Factor	0.9779
	Total Harmonic Current (THC)	8.081e-3 A
	Instantaneous Partial Odd Harmonic Current (Inst. POHC)	3.908e-3 A
	Total Harmonic Distortion Current (THDC)	0.04507
<i>Average Values</i>		
	Total Harmonic Current (THC)	7.897e-3 A
	Instantaneous Partial Odd Harmonic Current (Inst. POHC)	3.574e-3 A
	Total Harmonic Distortion Current (THDC)	0.04405

M/N: AOK-40WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-040D057)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Date of Test: 2023-10-18
 Detailed results are shown below

Standard Group: Industry
 Standard Name: IEC 61000-3-2 (Edition 5.1)
 Limits for harmonic current emissions (equipment input current < 16 A per phase)
 Device Under Test: **PASS**
 Power Source: **PASS**
 Connection Type: L - N
 Main Line: 230 V, 50 Hz
 Classification: Class C (Rated power > 25 W, Table 2)
 Appli. of Limits: less than or equal to 150 % (Without POHC Enhancement)

Test Duration: **2 min 30 s**

Check Harmonics 2..40			
<i>First detected harmonic order > 150 %</i>			
Line 1:	None		
<i>Harmonics orders > 150 %</i>			
Line 1:	None		
<i>Harmonics orders with average > 100 %</i>			
Line 1:	None		

Measured values			
<i>Fundamental Current</i>			
Line 1:	0.182 A		
<i>Active input Power</i>			
Line 1:	41.706 W *		
<i>Circuit power factor</i>			
Line 1:	0.99 *		

* *Absolute value.*

Prerequisite for simplified method fulfilled			
<i>First time window with THD(I) > 15 %</i>			
Line 1:	None		
<i>Time window with max THD(I) > 15 %</i>			
Line 1:	None		
<i>Current emission below 60 % of the applicable limits</i>			
Line 1:	No		
<i>Active Input Power</i>			
Line 1:	42 W *		

* ***Absolute value.***

Current Test Result

Average and Maximum harmonic current results									
Hn	Average				Maximum				Harmonic Result
	I _{eff} [%]	of Limit [%]	Limit [%]	Result	I _{eff} [%]	of Limit [%]	Limit [%]	Result	
1	99.360				99.968				
2	0.684	34.219	2.000	n/a	0.785	26.156	3.000	n/a	PASS
3	2.968	10.992	27.000	PASS	3.397	8.388	40.500	PASS	PASS
4	0.627				0.734				
5	2.470	24.698	10.000	n/a	2.592	17.282	15.000	n/a	PASS
6	0.568				0.650				
7	0.753	10.762	7.000	n/a	0.872	8.301	10.500	n/a	PASS
8	0.432				0.501				
9	1.310	26.193	5.000	n/a	1.406	18.742	7.500	n/a	PASS
10	0.414				0.463				
11	1.062	35.386	3.000	n/a	1.173	26.060	4.500	n/a	PASS
12	0.814				0.894				
13	1.401	46.689	3.000	n/a	1.730	38.450	4.500	n/a	PASS
14	0.562				0.628				
15	1.469	48.952	3.000	n/a	1.542	34.263	4.500	n/a	PASS
16	0.400				0.455				
17	1.363	45.424	3.000	n/a	1.411	31.366	4.500	n/a	PASS
18	0.357				0.398				
19	0.922	30.741	3.000	n/a	0.985	21.897	4.500	n/a	PASS
20	0.382				0.424				
21	0.470	15.651	3.000	n/a	0.550	12.223	4.500	n/a	PASS
22	0.561				0.630				
23	0.771	25.688	3.000	n/a	0.839	18.655	4.500	n/a	PASS
24	0.402				0.439				
25	0.454	15.148	3.000	n/a	0.515	11.441	4.500	n/a	PASS
26	0.377				0.427				
27	0.690	23.004	3.000	n/a	0.735	16.337	4.500	n/a	PASS
28	0.318				0.362				
29	0.405	13.492	3.000	n/a	0.466	10.349	4.500	n/a	PASS
30	0.325				0.377				
31	0.362	12.051	3.000	n/a	0.403	8.962	4.500	n/a	PASS
32	0.305				0.336				
33	0.422	14.065	3.000	n/a	0.473	10.515	4.500	n/a	PASS
34	0.296				0.327				
35	0.374	12.483	3.000	n/a	0.414	9.209	4.500	n/a	PASS
36	0.312				0.347				
37	0.355	11.817	3.000	n/a	0.400	8.890	4.500	n/a	PASS
38	0.294				0.330				
39	0.336	11.210	3.000	n/a	0.382	8.483	4.500	n/a	PASS

40	0.339				0.387				
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Note: Harmonic currents less than 0.6 % of the input current measured under the test conditions, or less than 5 mA, whichever is greater, are disregarded.

Maximum / Average Values

	Line 1
<i>Maximum Values</i>	
Frequency	50 Hz
Voltage RMS	230.9 V
Current RMS	0.1826 A
Peak Current	0.2746 A
Fundamental Current	0.1823 A
Current Crest Factor	1.511
Active Power P	41.71 W
Power Factor	0.9904
Total Harmonic Current (THC)	0.01070 A
Instantaneous Partial Odd Harmonic Current (Inst. POHC)	3.228e-3 A
Total Harmonic Distortion Current (THDC)	0.05873
<i>Average Values</i>	
Total Harmonic Current (THC)	0.01028 A
Instantaneous Partial Odd Harmonic Current (Inst. POHC)	2.814e-3 A
Total Harmonic Distortion Current (THDC)	0.05642

M/N: AOK-60WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-060D086)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Date of Test: 2023-10-18
 Detailed results are shown below

Standard Group: Industry
 Standard Name: IEC 61000-3-2 (Edition 5.1)
 Limits for harmonic current emissions (equipment input current < 16 A per phase)
 Device Under Test: **PASS**
 Power Source: **PASS**
 Connection Type: L - N
 Main Line: 230 V, 50 Hz
 Classification: Class C (Rated power > 25 W, Table 2)
 Appli. of Limits: less than or equal to 150 % (Without POHC Enhancement)
 Test Duration: **2 min 30 s**

Check Harmonics 2..40			
<i>First detected harmonic order > 150 %</i>			
Line 1:	None		
<i>Harmonics orders > 150 %</i>			
Line 1:	None		
<i>Harmonics orders with average > 100 %</i>			
Line 1:	None		

Measured values			
<i>Fundamental Current</i>			
Line 1:	0.266 A		
<i>Active input Power</i>			
Line 1:	60.353 W *		
<i>Circuit power factor</i>			
Line 1:	0.982 *		

* Absolute value.

Prerequisite for simplified method fulfilled			
<i>First time window with THD(I) > 15 %</i>			
Line 1:	None		
<i>Time window with max THD(I) > 15 %</i>			
Line 1:	None		
<i>Current emission below 60 % of the applicable limits</i>			
Line 1:	No		
<i>Active Input Power</i>			
Line 1:	60 W *		

* Absolute value.

Current Test Result

Average and Maximum harmonic current results									
Hn	Average				Maximum				Harmonic Result
	I _{eff} [%]	of Limit [%]	Limit [%]	Result	I _{eff} [%]	of Limit [%]	Limit [%]	Result	
1	99.703				99.990				
2	0.213	10.658	2.000	n/a	0.242	8.054	3.000	n/a	PASS
3	2.238	8.288	27.000	PASS	2.357	5.820	40.500	PASS	PASS
4	0.269				0.304				
5	1.405	14.053	10.000	n/a	1.493	9.953	15.000	n/a	PASS
6	0.249				0.272				
7	1.611	23.016	7.000	n/a	1.672	15.924	10.500	n/a	PASS
8	0.230				0.252				
9	1.410	28.197	5.000	n/a	1.465	19.536	7.500	n/a	PASS
10	0.226				0.251				
11	1.191	39.694	3.000	n/a	1.233	27.398	4.500	n/a	PASS
12	0.388				0.477				
13	1.293	43.102	3.000	n/a	1.347	29.932	4.500	n/a	PASS
14	0.418				0.452				
15	1.203	40.109	3.000	n/a	1.241	27.583	4.500	n/a	PASS
16	0.258				0.290				
17	1.059	35.301	3.000	n/a	1.109	24.640	4.500	n/a	PASS
18	0.227				0.252				
19	0.951	31.696	3.000	n/a	0.999	22.201	4.500	n/a	PASS
20	0.259				0.295				
21	0.890	29.678	3.000	n/a	0.922	20.479	4.500	n/a	PASS
22	0.285				0.330				
23	0.532	17.747	3.000	n/a	0.575	12.775	4.500	n/a	PASS
24	0.307				0.345				
25	0.711	23.712	3.000	n/a	0.753	16.734	4.500	n/a	PASS
26	0.305				0.331				
27	0.617	20.581	3.000	n/a	0.708	15.731	4.500	n/a	PASS
28	0.259				0.288				
29	0.485	16.151	3.000	n/a	0.514	11.418	4.500	n/a	PASS
30	0.239				0.262				
31	0.410	13.657	3.000	n/a	0.456	10.128	4.500	n/a	PASS
32	0.217				0.236				
33	0.417	13.892	3.000	n/a	0.477	10.603	4.500	n/a	PASS
34	0.224				0.243				
35	0.290	9.670	3.000	n/a	0.326	7.254	4.500	n/a	PASS
36	0.217				0.245				
37	0.507	16.899	3.000	n/a	0.553	12.287	4.500	n/a	PASS
38	0.219				0.246				
39	0.487	16.242	3.000	n/a	0.517	11.483	4.500	n/a	PASS

40	0.209				0.232				
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Note: Harmonic currents less than 0.6 % of the input current measured under the test conditions, or less than 5 mA, whichever is greater, are disregarded.

Maximum / Average Values

		Line 1
<i>Maximum Values</i>		
Frequency		50 Hz
Voltage RMS		230.9 V
Current RMS		0.2662 A
Peak Current		0.3990 A
Fundamental Current		0.2659 A
Current Crest Factor		1.499
Active Power P		60.39 W
Power Factor		0.9823
Total Harmonic Current (THC)		0.01291 A
Instantaneous Partial Odd Harmonic Current (Inst. POHC)		5.304e-3 A
Total Harmonic Distortion Current (THDC)		0.04858
<i>Average Values</i>		
Total Harmonic Current (THC)		0.01266 A
Instantaneous Partial Odd Harmonic Current (Inst. POHC)		4.717e-3 A
Total Harmonic Distortion Current (THDC)		0.04763

M/N: AOK-70WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-75PA-108B)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Date of Test: 2023-10-18
 Detailed results are shown below

Standard Group: Industry
 Standard Name: IEC 61000-3-2 (Edition 5.1)
 Limits for harmonic current emissions (equipment input current < 16 A per phase)
 Device Under Test: **PASS**
 Power Source: **PASS**
 Connection Type: L - N
 Main Line: 230 V, 50 Hz
 Classification: Class C (Rated power > 25 W, Table 2)
 Appli. of Limits: less than or equal to 150 % (Without POHC Enhancement)
 Test Duration: **2 min 30 s**

Check Harmonics 2..40			
<i>First detected harmonic order > 150 %</i>			
Line 1:	None		
<i>Harmonics orders > 150 %</i>			
Line 1:	None		
<i>Harmonics orders with average > 100 %</i>			
Line 1:	None		

Measured values			
<i>Fundamental Current</i>			
Line 1:	0.313 A		
<i>Active input Power</i>			
Line 1:	70.761 W *		
<i>Circuit power factor</i>			
Line 1:	0.979 *		

* *Absolute value.*

Prerequisite for simplified method fulfilled			
<i>First time window with THD(I) > 15 %</i>			
Line 1:	None		
<i>Time window with max THD(I) > 15 %</i>			
Line 1:	None		
<i>Current emission below 60 % of the applicable limits</i>			
Line 1:	No		
<i>Active Input Power</i>			
Line 1:	71 W *		

* ***Absolute value.***

Current Test Result

Average and Maximum harmonic current results									
Hn	Average				Maximum				Harmonic Result
	I _{eff} [%]	of Limit [%]	Limit [%]	Result	I _{eff} [%]	of Limit [%]	Limit [%]	Result	
1	99.585				99.944				
2	0.484	24.214	2.000	n/a	0.617	20.583	3.000	n/a	PASS
3	1.340	4.963	27.000	n/a	1.565	3.863	40.500	n/a	PASS
4	0.389				0.434				
5	1.226	12.260	10.000	n/a	1.308	8.722	15.000	n/a	PASS
6	0.354				0.402				
7	1.651	23.581	7.000	PASS	1.700	16.192	10.500	PASS	PASS
8	0.375				0.427				
9	1.301	26.016	5.000	n/a	1.369	18.248	7.500	n/a	PASS
10	0.404				0.470				
11	1.010	33.664	3.000	n/a	1.072	23.832	4.500	n/a	PASS
12	0.575				0.649				
13	1.137	37.916	3.000	n/a	1.224	27.204	4.500	n/a	PASS
14	0.430				0.485				
15	1.048	34.921	3.000	n/a	1.124	24.970	4.500	n/a	PASS
16	0.434				0.501				
17	0.886	29.540	3.000	n/a	0.964	21.426	4.500	n/a	PASS
18	0.428				0.486				
19	0.781	26.025	3.000	n/a	0.838	18.613	4.500	n/a	PASS
20	0.473				0.522				
21	0.799	26.628	3.000	n/a	0.868	19.296	4.500	n/a	PASS
22	0.521				0.572				
23	0.656	21.882	3.000	n/a	0.727	16.150	4.500	n/a	PASS
24	0.452				0.506				
25	0.544	18.127	3.000	n/a	0.597	13.258	4.500	n/a	PASS
26	0.482				0.541				
27	0.589	19.639	3.000	n/a	0.653	14.502	4.500	n/a	PASS
28	0.461				0.530				
29	0.640	21.338	3.000	n/a	0.720	15.991	4.500	n/a	PASS
30	0.462				0.531				
31	0.533	17.779	3.000	n/a	0.614	13.652	4.500	n/a	PASS
32	0.442				0.502				
33	0.441	14.701	3.000	n/a	0.508	11.288	4.500	n/a	PASS
34	0.439				0.485				
35	0.439	14.621	3.000	n/a	0.487	10.830	4.500	n/a	PASS
36	0.420				0.472				
37	0.487	16.236	3.000	n/a	0.530	11.770	4.500	n/a	PASS

38	0.388				0.430				
39	0.447	14.885	3.000	n/a	0.493	10.956	4.500	n/a	PASS
40	0.380				0.427				

Note: Harmonic currents less than 0.6 % of the input current measured under the test conditions, or less than 5 mA, whichever is greater, are disregarded.

Maximum / Average Values

		Line 1
<i>Maximum Values</i>		
	Frequency	50 Hz
	Voltage RMS	230.9 V
	Current RMS	0.3131 A
	Peak Current	0.4683 A
	Fundamental Current	0.3130 A
	Current Crest Factor	1.502
	Active Power P	70.80 W
	Power Factor	0.9791
	Total Harmonic Current (THC)	0.01410 A
	Instantaneous Partial Odd Harmonic Current (Inst. POHC)	6.407e-3 A
	Total Harmonic Distortion Current (THDC)	0.04506
<i>Average Values</i>		
	Total Harmonic Current (THC)	0.01389 A
	Instantaneous Partial Odd Harmonic Current (Inst. POHC)	5.672e-3 A
	Total Harmonic Distortion Current (THDC)	0.04438

M/N: AOK-70WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-080D115)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Date of Test: 2023-10-18
 Detailed results are shown below

Standard Group: Industry
 Standard Name: IEC 61000-3-2 (Edition 5.1)
 Limits for harmonic current emissions (equipment input current < 16 A per phase)
 Device Under Test: **PASS**
 Power Source: **PASS**
 Connection Type: L - N
 Main Line: 230 V, 50 Hz
 Classification: Class C (Rated power > 25 W, Table 2)
 Appli. of Limits: less than or equal to 150 % (Without POHC Enhancement)

Test Duration: **2 min 30 s**

Check Harmonics 2..40			
<i>First detected harmonic order > 150 %</i>			
Line 1:	None		
<i>Harmonics orders > 150 %</i>			
Line 1:	None		
<i>Harmonics orders with average > 100 %</i>			
Line 1:	None		

Measured values			
<i>Fundamental Current</i>			
Line 1:	0.306 A		
<i>Active input Power</i>			
Line 1:	69.639 W *		
<i>Circuit power factor</i>			
Line 1:	0.982 *		

* *Absolute value.*

Prerequisite for simplified method fulfilled			
<i>First time window with THD(I) > 15 %</i>			
Line 1:	None		
<i>Time window with max THD(I) > 15 %</i>			
Line 1:	None		
<i>Current emission below 60 % of the applicable limits</i>			
Line 1:	No		
<i>Active Input Power</i>			
Line 1:	70 W *		

* *Absolute value.*

Current Test Result

Average and Maximum harmonic current results									
Hn	Average				Maximum				Harmonic Result
	I _{eff} [%]	of Limit [%]	Limit [%]	Result	I _{eff} [%]	of Limit [%]	Limit [%]	Result	
1	99.429				99.870				
2	0.306	15.316	2.000	n/a	0.366	12.189	3.000	n/a	PASS
3	3.900	14.446	27.000	PASS	4.027	9.944	40.500	PASS	PASS
4	0.329				0.381				
5	2.658	26.581	10.000	PASS	2.731	18.208	15.000	PASS	PASS
6	0.282				0.318				
7	2.006	28.658	7.000	PASS	2.036	19.394	10.500	PASS	PASS
8	0.249				0.277				
9	1.507	30.147	5.000	n/a	1.554	20.720	7.500	n/a	PASS
10	0.253				0.279				
11	1.645	54.833	3.000	PASS	1.714	38.090	4.500	PASS	PASS
12	0.497				0.531				
13	1.090	36.326	3.000	n/a	1.139	25.302	4.500	n/a	PASS
14	0.327				0.373				
15	1.566	52.194	3.000	n/a	1.595	35.454	4.500	n/a	PASS
16	0.215				0.239				
17	0.934	31.134	3.000	n/a	0.984	21.865	4.500	n/a	PASS
18	0.205				0.226				
19	0.863	28.763	3.000	n/a	0.905	20.118	4.500	n/a	PASS
20	0.258				0.286				
21	0.306	10.185	3.000	n/a	0.356	7.912	4.500	n/a	PASS
22	0.286				0.346				
23	0.502	16.744	3.000	n/a	0.531	11.794	4.500	n/a	PASS
24	0.288				0.321				
25	0.909	30.304	3.000	n/a	0.984	21.860	4.500	n/a	PASS
26	0.255				0.281				
27	0.628	20.930	3.000	n/a	0.664	14.752	4.500	n/a	PASS
28	0.229				0.252				
29	0.573	19.088	3.000	n/a	0.599	13.314	4.500	n/a	PASS
30	0.225				0.243				
31	0.262	8.722	3.000	n/a	0.293	6.520	4.500	n/a	PASS
32	0.209				0.233				
33	0.296	9.850	3.000	n/a	0.326	7.236	4.500	n/a	PASS
34	0.201				0.223				
35	0.393	13.105	3.000	n/a	0.419	9.312	4.500	n/a	PASS
36	0.197				0.224				
37	0.318	10.589	3.000	n/a	0.352	7.826	4.500	n/a	PASS
38	0.244				0.282				
39	0.288	9.584	3.000	n/a	0.317	7.038	4.500	n/a	PASS

40	0.283				0.322				
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Note: Harmonic currents less than 0.6 % of the input current measured under the test conditions, or less than 5 mA, whichever is greater, are disregarded.

Maximum / Average Values

		Line 1
<i>Maximum Values</i>		
Frequency		50 Hz
Voltage RMS		230.9 V
Current RMS		0.3069 A
Peak Current		0.4600 A
Fundamental Current		0.3063 A
Current Crest Factor		1.505
Active Power P		69.64 W
Power Factor		0.9827
Total Harmonic Current (THC)		0.01971 A
Instantaneous Partial Odd Harmonic Current (Inst. POHC)		5.346e-3 A
Total Harmonic Distortion Current (THDC)		0.06435
<i>Average Values</i>		
Total Harmonic Current (THC)		0.01948 A
Instantaneous Partial Odd Harmonic Current (Inst. POHC)		4.751e-3 A
Total Harmonic Distortion Current (THDC)		0.06360

M/N: AOK-100WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-110PA-160B)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Date of Test: 2023-10-18
 Detailed results are shown below

Standard Group: Industry
 Standard Name: IEC 61000-3-2 (Edition 5.1)
 Limits for harmonic current emissions (equipment input current < 16 A per phase)
 Device Under Test: **PASS**
 Power Source: **PASS**
 Connection Type: L - N
 Main Line: 230 V, 50 Hz
 Classification: Class C (Rated power > 25 W, Table 2)
 Appli. of Limits: less than or equal to 150 % (Without POHC Enhancement)
 Test Duration: **2 min 30 s**

Check Harmonics 2..40			
<i>First detected harmonic order > 150 %</i>			
Line 1:	None		
<i>Harmonics orders > 150 %</i>			
Line 1:	None		
<i>Harmonics orders with average > 100 %</i>			
Line 1:	None		

Measured values			
<i>Fundamental Current</i>			
Line 1:	0.447 A		
<i>Active input Power</i>			
Line 1:	101.923 W *		
<i>Circuit power factor</i>			
Line 1:	0.987 *		

* Absolute value.

Prerequisite for simplified method unfulfilled			
<i>First time window with THD(I) > 15 %</i>			
Line 1:	None		
<i>Time window with max THD(I) > 15 %</i>			
Line 1:	None		
<i>Current emission below 60 % of the applicable limits</i>			
Line 1:	No		
<i>Active Input Power</i>			
Line 1:	102 W *		

* Absolute value.

Current Test Result

Average and Maximum harmonic current results									
Hn	Average				Maximum				Harmonic Result
	Ieff [%]	of Limit [%]	Limit [%]	Result	Ieff [%]	of Limit [%]	Limit [%]	Result	
1	99.589				100.000				
2	0.243	12.127	2.000	n/a	0.577	19.233	3.000	n/a	PASS
3	2.311	8.559	27.000	PASS	2.487	6.140	40.500	PASS	PASS
4	0.180				0.269				
5	1.579	15.789	10.000	PASS	1.673	11.151	15.000	PASS	PASS
6	0.160				0.188				
7	2.714	38.774	7.000	PASS	2.801	26.672	10.500	PASS	PASS
8	0.157				0.175				
9	2.613	52.268	5.000	PASS	2.678	35.706	7.500	PASS	PASS
10	0.170				0.202				
11	1.868	62.266	3.000	PASS	1.917	42.611	4.500	PASS	PASS
12	0.338				0.379				
13	1.686	56.209	3.000	PASS	1.749	38.866	4.500	PASS	PASS
14	0.214				0.235				
15	1.472	49.059	3.000	PASS	1.514	33.634	4.500	PASS	PASS
16	0.143				0.176				
17	0.957	31.907	3.000	n/a	0.978	21.743	4.500	n/a	PASS
18	0.133				0.153				
19	0.718	23.917	3.000	n/a	0.773	17.173	4.500	n/a	PASS
20	0.167				0.188				
21	0.401	13.379	3.000	n/a	0.444	9.867	4.500	n/a	PASS
22	0.222				0.270				
23	0.565	18.839	3.000	n/a	0.621	13.795	4.500	n/a	PASS
24	0.161				0.177				
25	0.323	10.764	3.000	n/a	0.360	7.990	4.500	n/a	PASS
26	0.168				0.193				
27	0.483	16.096	3.000	n/a	0.524	11.655	4.500	n/a	PASS
28	0.135				0.158				
29	0.338	11.271	3.000	n/a	0.366	8.133	4.500	n/a	PASS
30	0.135				0.149				
31	0.245	8.157	3.000	n/a	0.289	6.429	4.500	n/a	PASS
32	0.134				0.160				
33	0.496	16.533	3.000	n/a	0.523	11.616	4.500	n/a	PASS
34	0.131				0.149				
35	0.186	6.184	3.000	n/a	0.218	4.848	4.500	n/a	PASS
36	0.129				0.152				
37	0.393	13.109	3.000	n/a	0.419	9.311	4.500	n/a	PASS

38	0.144				0.186				
39	0.241	8.033	3.000	n/a	0.314	6.973	4.500	n/a	PASS
40	0.132				0.167				

Note: Harmonic currents less than 0.6 % of the input current measured under the test conditions, or less than 5 mA, whichever is greater, are disregarded.

Maximum / Average Values

		Line 1
<i>Maximum Values</i>		
	Frequency	50 Hz
	Voltage RMS	230.9 V
	Current RMS	0.4477 A
	Peak Current	0.6563 A
	Fundamental Current	0.4473 A
	Current Crest Factor	1.472
	Active Power P	102.0 W
	Power Factor	0.9877
	Total Harmonic Current (THC)	0.02671 A
	Instantaneous Partial Odd Harmonic Current (Inst. POHC)	5.874e-3 A
	Total Harmonic Distortion Current (THDC)	0.05978
<i>Average Values</i>		
	Total Harmonic Current (THC)	0.02608 A
	Instantaneous Partial Odd Harmonic Current (Inst. POHC)	5.472e-3 A
	Total Harmonic Distortion Current (THDC)	0.05838

M/N: AOK-120WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-120D172)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Date of Test: 2023-10-18
 Detailed results are shown below

Standard Group: Industry
 Standard Name: IEC 61000-3-2 (Edition 5.1)
 Limits for harmonic current emissions (equipment input current < 16 A per phase)
 Device Under Test: **PASS**
 Power Source: **PASS**
 Connection Type: L - N
 Main Line: 230 V, 50 Hz
 Classification: Class C (Rated power > 25 W, Table 2)
 Appli. of Limits: less than or equal to 150 % (Without POHC Enhancement)

Test Duration: **2 min 30 s**

Check Harmonics 2..40			
<i>First detected harmonic order > 150 %</i>			
Line 1:	None		
<i>Harmonics orders > 150 %</i>			
Line 1:	None		
<i>Harmonics orders with average > 100 %</i>			
Line 1:	None		

Measured values			
<i>Fundamental Current</i>			
Line 1:	0.544 A		
<i>Active input Power</i>			
Line 1:	123.586 W *		
<i>Circuit power factor</i>			
Line 1:	0.982 *		

* *Absolute value.*

Prerequisite for simplified method fulfilled			
<i>First time window with THD(I) > 15 %</i>			
Line 1:	None		
<i>Time window with max THD(I) > 15 %</i>			
Line 1:	None		
<i>Current emission below 60 % of the applicable limits</i>			
Line 1:	No		
<i>Active Input Power</i>			
Line 1:	123 W *		

* ***Absolute value.***

Current Test Result

Average and Maximum harmonic current results									
Hn	Average				Maximum				Harmonic Result
	I _{eff} [%]	of Limit [%]	Limit [%]	Result	I _{eff} [%]	of Limit [%]	Limit [%]	Result	
1	99.617				99.934				
2	0.405	20.231	2.000	n/a	0.554	18.473	3.000	n/a	PASS
3	1.569	5.811	27.000	PASS	1.706	4.213	40.500	PASS	PASS
4	0.384				0.422				
5	0.666	6.662	10.000	n/a	0.735	4.901	15.000	n/a	PASS
6	0.314				0.358				
7	0.936	13.366	7.000	PASS	1.007	9.589	10.500	PASS	PASS
8	0.326				0.367				
9	0.719	14.383	5.000	n/a	0.763	10.175	7.500	n/a	PASS
10	0.374				0.407				
11	0.666	22.213	3.000	n/a	0.714	15.858	4.500	n/a	PASS
12	0.489				0.528				
13	0.675	22.514	3.000	n/a	0.741	16.477	4.500	n/a	PASS
14	0.437				0.483				
15	0.744	24.791	3.000	n/a	0.811	18.013	4.500	n/a	PASS
16	0.418				0.457				
17	0.528	17.592	3.000	n/a	0.586	13.016	4.500	n/a	PASS
18	0.432				0.484				
19	0.776	25.872	3.000	n/a	0.858	19.057	4.500	n/a	PASS
20	0.453				0.528				
21	0.569	18.967	3.000	n/a	0.626	13.904	4.500	n/a	PASS
22	0.439				0.503				
23	0.522	17.406	3.000	n/a	0.584	12.987	4.500	n/a	PASS
24	0.451				0.507				
25	0.540	17.988	3.000	n/a	0.620	13.767	4.500	n/a	PASS
26	0.448				0.499				
27	0.519	17.284	3.000	n/a	0.587	13.035	4.500	n/a	PASS
28	0.427				0.512				
29	0.509	16.968	3.000	n/a	0.565	12.553	4.500	n/a	PASS
30	0.422				0.522				
31	0.497	16.574	3.000	n/a	0.545	12.106	4.500	n/a	PASS
32	0.399				0.453				
33	0.480	15.989	3.000	n/a	0.536	11.909	4.500	n/a	PASS
34	0.377				0.438				
35	0.383	12.776	3.000	n/a	0.441	9.792	4.500	n/a	PASS
36	0.362				0.419				
37	0.351	11.711	3.000	n/a	0.421	9.352	4.500	n/a	PASS
38	0.348				0.394				
39	0.383	12.754	3.000	n/a	0.432	9.600	4.500	n/a	PASS

40	0.334				0.381				
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Note: Harmonic currents less than 0.6 % of the input current measured under the test conditions, or less than 5 mA, whichever is greater, are disregarded.

Maximum / Average Values	
	Line 1
<i>Maximum Values</i>	
Frequency	50 Hz
Voltage RMS	231.0 V
Current RMS	0.5447 A
Peak Current	0.8362 A
Fundamental Current	0.5443 A
Current Crest Factor	1.539
Active Power P	123.6 W
Power Factor	0.9826
Total Harmonic Current (THC)	0.01945 A
Instantaneous Partial Odd Harmonic Current (Inst. POHC)	9.489e-3 A
Total Harmonic Distortion Current (THDC)	0.03574
<i>Average Values</i>	
Total Harmonic Current (THC)	0.01904 A
Instantaneous Partial Odd Harmonic Current (Inst. POHC)	8.354e-3 A
Total Harmonic Distortion Current (THDC)	0.03498

M/N: AOK-150WiLA-NV-L3-00-6570-T2-P (with LED Driver: SS-165PA-235B)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Date of Test: 2023-10-18
 Detailed results are shown below

Standard Group: Industry
 Standard Name: IEC 61000-3-2 (Edition 5.1)
 Limits for harmonic current emissions (equipment input current < 16 A per phase)
 Device Under Test: **PASS**
 Power Source: **PASS**
 Connection Type: L - N
 Main Line: 230 V, 50 Hz
 Classification: Class C (Rated power > 25 W, Table 2)
 Appli. of Limits: less than or equal to 150 % (Without POHC Enhancement)
 Test Duration: **2 min 30 s**

Check Harmonics 2..40			
<i>First detected harmonic order > 150 %</i>			
Line 1:	None		
<i>Harmonics orders > 150 %</i>			
Line 1:	None		
<i>Harmonics orders with average > 100 %</i>			
Line 1:	None		

Measured values			
<i>Fundamental Current</i>			
Line 1:	0.547 A		
<i>Active input Power</i>			
Line 1:	125.867 W *		
<i>Circuit power factor</i>			
Line 1:	0.995 *		

* Absolute value.

Prerequisite for simplified method unfulfilled			
<i>First time window with THD(I) > 15 %</i>			
Line 1:	None		
<i>Time window with max THD(I) > 15 %</i>			
Line 1:	None		
<i>Current emission below 60 % of the applicable limits</i>			
Line 1:	No		
<i>Active Input Power</i>			
Line 1:	126 W *		

* Absolute value.

Current Test Result

Average and Maximum harmonic current results									
Hn	Average				Maximum				Harmonic Result
	I _{eff} [%]	of Limit [%]	Limit [%]	Result	I _{eff} [%]	of Limit [%]	Limit [%]	Result	
1	99.838				99.999				
2	0.191	9.567	2.000	n/a	0.212	7.080	3.000	n/a	PASS
3	1.572	5.822	27.000	PASS	1.630	4.025	40.500	PASS	PASS
4	0.177				0.196				
5	1.086	10.858	10.000	PASS	1.126	7.504	15.000	PASS	PASS
6	0.138				0.156				
7	1.836	26.232	7.000	PASS	1.866	17.772	10.500	PASS	PASS
8	0.129				0.142				
9	2.897	57.948	5.000	PASS	2.916	38.885	7.500	PASS	PASS
10	0.123				0.136				
11	2.193	73.088	3.000	PASS	2.209	49.080	4.500	PASS	PASS
12	0.266				0.285				
13	1.425	47.507	3.000	PASS	1.448	32.188	4.500	PASS	PASS
14	0.165				0.178				
15	1.496	49.860	3.000	PASS	1.520	33.771	4.500	PASS	PASS
16	0.136				0.147				
17	1.122	37.398	3.000	PASS	1.168	25.945	4.500	PASS	PASS
18	0.116				0.128				
19	0.288	9.600	3.000	n/a	0.307	6.817	4.500	n/a	PASS
20	0.139				0.154				
21	0.923	30.776	3.000	PASS	0.943	20.964	4.500	PASS	PASS
22	0.160				0.178				
23	0.324	10.792	3.000	n/a	0.342	7.603	4.500	n/a	PASS
24	0.156				0.171				
25	0.275	9.160	3.000	n/a	0.294	6.538	4.500	n/a	PASS
26	0.151				0.165				
27	0.340	11.334	3.000	n/a	0.377	8.383	4.500	n/a	PASS
28	0.141				0.155				
29	0.508	16.928	3.000	n/a	0.533	11.844	4.500	n/a	PASS
30	0.118				0.129				
31	0.255	8.507	3.000	n/a	0.275	6.122	4.500	n/a	PASS
32	0.130				0.146				
33	0.499	16.622	3.000	n/a	0.523	11.617	4.500	n/a	PASS
34	0.115				0.123				
35	0.269	8.977	3.000	n/a	0.285	6.323	4.500	n/a	PASS
36	0.119				0.134				
37	0.324	10.801	3.000	n/a	0.343	7.631	4.500	n/a	PASS

38	0.113				0.125				
39	0.261	8.711	3.000	n/a	0.279	6.201	4.500	n/a	PASS
40	0.122				0.133				

Note: Harmonic currents less than 0.6 % of the input current measured under the test conditions, or less than 5 mA, whichever is greater, are disregarded.

Maximum / Average Values

		Line 1
<i>Maximum Values</i>		
Frequency		50 Hz
Voltage RMS		231.0 V
Current RMS		0.5478 A
Peak Current		0.8028 A
Fundamental Current		0.5470 A
Current Crest Factor		1.468
Active Power P		125.9 W
Power Factor		0.9954
Total Harmonic Current (THC)		0.02925 A
Instantaneous Partial Odd Harmonic Current (Inst. POHC)		8.247e-3 A
Total Harmonic Distortion Current (THDC)		0.05350
<i>Average Values</i>		
Total Harmonic Current (THC)		0.02906 A
Instantaneous Partial Odd Harmonic Current (Inst. POHC)		7.680e-3 A
Total Harmonic Distortion Current (THDC)		0.05315

M/N: AOK-150WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-165D236)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Date of Test: 2023-10-18
 Detailed results are shown below

Standard Group: Industry
 Standard Name: IEC 61000-3-2 (Edition 5.1)
 Limits for harmonic current emissions (equipment input current < 16 A per phase)
 Device Under Test: **PASS**
 Power Source: **PASS**
 Connection Type: L - N
 Main Line: 230 V, 50 Hz
 Classification: Class C (Rated power > 25 W, Table 2)
 Appli. of Limits: less than or equal to 150 % (Without POHC Enhancement)

Test Duration: **2 min 30 s**

Check Harmonics 2..40			
<i>First detected harmonic order > 150 %</i>			
Line 1:	None		
<i>Harmonics orders > 150 %</i>			
Line 1:	None		
<i>Harmonics orders with average > 100 %</i>			
Line 1:	None		

Measured values			
<i>Fundamental Current</i>			
Line 1:	0.587 A		
<i>Active input Power</i>			
Line 1:	129.263 W *		
<i>Circuit power factor</i>			
Line 1:	0.982 *		

* *Absolute value.*

Prerequisite for simplified method fulfilled			
<i>First time window with THD(I) > 15 %</i>			
Line 1:	None		
<i>Time window with max THD(I) > 15 %</i>			
Line 1:	None		
<i>Current emission below 60 % of the applicable limits</i>			
Line 1:	No		
<i>Active Input Power</i>			
Line 1:	129 W *		

* ***Absolute value.***

Current Test Result

Average and Maximum harmonic current results									
Hn	Average				Maximum				Harmonic Result
	I _{eff} [%]	of Limit [%]	Limit [%]	Result	I _{eff} [%]	of Limit [%]	Limit [%]	Result	
1	99.786				100.000				
2	0.553	27.618	2.000	n/a	0.616	20.517	3.000	n/a	PASS
3	5.914	21.899	27.000	PASS	6.033	14.897	40.500	PASS	PASS
4	0.454				0.512				
5	2.898	28.986	10.000	PASS	2.961	19.742	15.000	PASS	PASS
6	0.412				0.461				
7	2.421	34.616	7.000	PASS	2.472	23.543	10.500	PASS	PASS
8	0.369				0.409				
9	1.729	34.586	5.000	PASS	1.775	23.667	7.500	PASS	PASS
10	0.377				0.432				
11	1.258	41.958	3.000	PASS	1.318	29.287	4.500	PASS	PASS
12	0.467				0.530				
13	1.237	41.305	3.000	PASS	1.366	30.366	4.500	PASS	PASS
14	0.398				0.444				
15	0.899	29.965	3.000	PASS	0.944	20.986	4.500	PASS	PASS
16	0.426				0.473				
17	0.941	31.382	3.000	PASS	1.015	22.556	4.500	PASS	PASS
18	0.445				0.493				
19	0.685	22.826	3.000	n/a	0.735	16.341	4.500	n/a	PASS
20	0.429				0.483				
21	0.536	17.868	3.000	n/a	0.596	13.237	4.500	n/a	PASS
22	0.437				0.476				
23	0.443	14.725	3.000	n/a	0.504	11.191	4.500	n/a	PASS
24	0.430				0.490				
25	0.440	14.676	3.000	n/a	0.505	11.212	4.500	n/a	PASS
26	0.435				0.497				
27	0.472	15.719	3.000	n/a	0.525	11.670	4.500	n/a	PASS
28	0.412				0.459				
29	0.485	16.111	3.000	n/a	0.541	12.030	4.500	n/a	PASS
30	0.396				0.446				
31	0.502	16.723	3.000	n/a	0.549	12.209	4.500	n/a	PASS
32	0.357				0.415				
33	0.467	15.451	3.000	n/a	0.505	11.217	4.500	n/a	PASS
34	0.351				0.382				
35	0.437	14.578	3.000	n/a	0.478	10.616	4.500	n/a	PASS
36	0.336				0.391				
37	0.453	15.114	3.000	n/a	0.496	11.026	4.500	n/a	PASS
38	0.332				0.365				
39	0.396	13.186	3.000	n/a	0.447	9.939	4.500	n/a	PASS

40	0.302				0.340				
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Note: Harmonic currents less than 0.6 % of the input current measured under the test conditions, or less than 5 mA, whichever is greater, are disregarded.

Maximum / Average Values

		Line 1
<i>Maximum Values</i>		
Frequency		50 Hz
Voltage RMS		231.0 V
Current RMS		0.5903 A
Peak Current		0.9294 A
Fundamental Current		0.5887 A
Current Crest Factor		1.575
Active Power P		129.2 W
Power Factor		0.9821
Total Harmonic Current (THC)		0.04717 A
Instantaneous Partial Odd Harmonic Current (Inst. POHC)		9.764e-3 A
Total Harmonic Distortion Current (THDC)		0.08019
<i>Average Values</i>		
Total Harmonic Current (THC)		0.04670 A
Instantaneous Partial Odd Harmonic Current (Inst. POHC)		8.713e-3 A
Total Harmonic Distortion Current (THDC)		0.07939

M/N: AOK-180WiLA-NV-L3-00-6570-T2-P (with LED Driver: U7-200D286)
 Op Cond.: Lighting
 Comment: AC 230V/50Hz
 Date of Test: 2023-10-18
 Detailed results are shown below

Standard Group: Industry
 Standard Name: IEC 61000-3-2 (Edition 5.1)
 Limits for harmonic current emissions (equipment input current < 16 A per phase)
 Device Under Test: **PASS**
 Power Source: **PASS**
 Connection Type: L - N
 Main Line: 230 V, 50 Hz
 Classification: Class C (Rated power > 25 W, Table 2)
 Appli. of Limits: less than or equal to 150 % (Without POHC Enhancement)

Test Duration: **2 min 30 s**

Check Harmonics 2..40			
<i>First detected harmonic order > 150 %</i>			
Line 1:	None		
<i>Harmonics orders > 150 %</i>			
Line 1:	None		
<i>Harmonics orders with average > 100 %</i>			
Line 1:	None		

Measured values			
<i>Fundamental Current</i>			
Line 1:	0.796 A		
<i>Active input Power</i>			
Line 1:	181.071 W *		
<i>Circuit power factor</i>			
Line 1:	0.983 *		

* *Absolute value.*

Prerequisite for simplified method fulfilled			
<i>First time window with THD(I) > 15 %</i>			
Line 1:	None		
<i>Time window with max THD(I) > 15 %</i>			
Line 1:	None		
<i>Current emission below 60 % of the applicable limits</i>			
Line 1:	No		
<i>Active Input Power</i>			
Line 1:	181 W *		

* ***Absolute value.***

Current Test Result

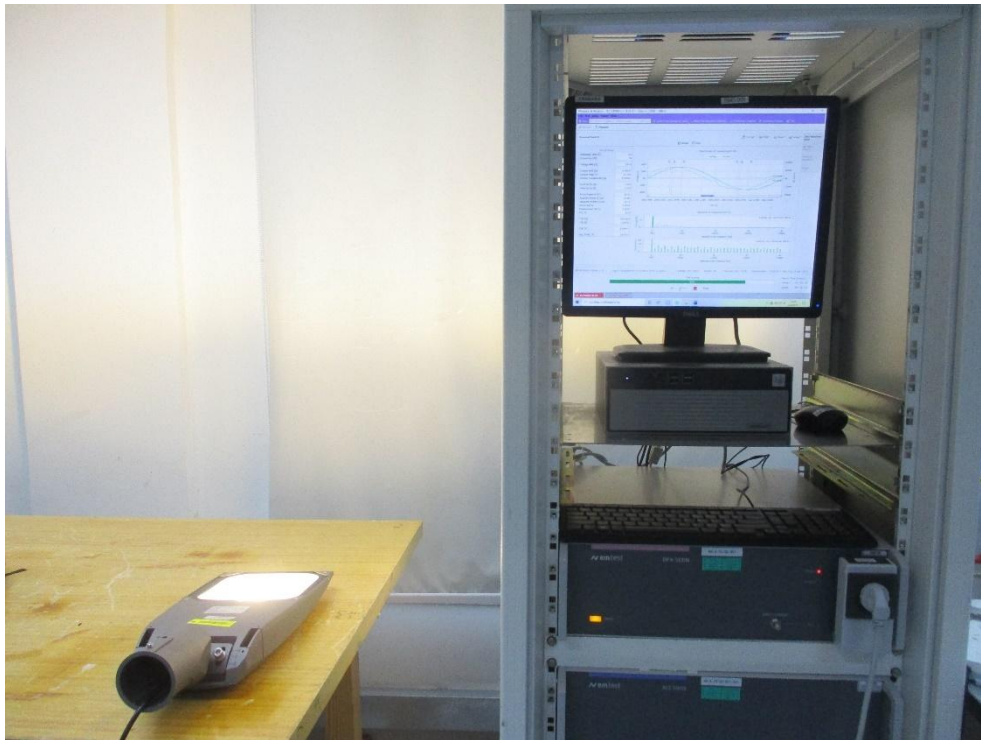
Average and Maximum harmonic current results									
Hn	Average				Maximum				Harmonic Result
	I _{eff} [%]	of Limit [%]	Limit [%]	Result	I _{eff} [%]	of Limit [%]	Limit [%]	Result	
1	99.585				99.906				
2	0.401	20.029	2.000	n/a	0.521	17.373	3.000	n/a	PASS
3	3.418	12.657	27.000	PASS	3.498	8.636	40.500	PASS	PASS
4	0.484				0.582				
5	2.040	20.405	10.000	PASS	2.111	14.073	15.000	PASS	PASS
6	0.437				0.489				
7	1.578	22.548	7.000	PASS	1.631	15.537	10.500	PASS	PASS
8	0.359				0.386				
9	0.983	19.665	5.000	PASS	1.029	13.715	7.500	PASS	PASS
10	0.372				0.420				
11	1.058	35.283	3.000	PASS	1.118	24.836	4.500	PASS	PASS
12	0.433				0.489				
13	0.993	33.107	3.000	PASS	1.046	23.240	4.500	PASS	PASS
14	0.385				0.420				
15	0.717	23.893	3.000	PASS	0.778	17.297	4.500	PASS	PASS
16	0.375				0.421				
17	0.723	24.108	3.000	PASS	0.825	18.330	4.500	PASS	PASS
18	0.412				0.458				
19	0.667	22.218	3.000	PASS	0.712	15.828	4.500	PASS	PASS
20	0.421				0.464				
21	0.541	18.030	3.000	n/a	0.610	13.564	4.500	n/a	PASS
22	0.409				0.452				
23	0.518	17.272	3.000	n/a	0.567	12.592	4.500	n/a	PASS
24	0.393				0.446				
25	0.467	15.555	3.000	n/a	0.526	11.686	4.500	n/a	PASS
26	0.398				0.452				
27	0.397	13.225	3.000	n/a	0.431	9.585	4.500	n/a	PASS
28	0.404				0.450				
29	0.393	13.115	3.000	n/a	0.438	9.742	4.500	n/a	PASS
30	0.396				0.444				
31	0.472	15.740	3.000	n/a	0.547	12.149	4.500	n/a	PASS
32	0.376				0.418				
33	0.388	12.926	3.000	n/a	0.433	9.630	4.500	n/a	PASS
34	0.354				0.399				
35	0.369	12.301	3.000	n/a	0.411	9.142	4.500	n/a	PASS
36	0.340				0.399				
37	0.329	10.977	3.000	n/a	0.369	8.196	4.500	n/a	PASS
38	0.322				0.361				
39	0.399	13.296	3.000	n/a	0.438	9.741	4.500	n/a	PASS

40	0.308				0.340				
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Note: Harmonic currents less than 0.6 % of the input current measured under the test conditions, or less than 5 mA, whichever is greater, are disregarded.

Maximum / Average Values

		Line 1
<i>Maximum Values</i>		
	Frequency	50 Hz
	Voltage RMS	230.9 V
	Current RMS	0.7973 A
	Peak Current	1.216 A
	Fundamental Current	0.7963 A
	Current Crest Factor	1.531
	Active Power P	181.1 W
	Power Factor	0.9839
	Total Harmonic Current (THC)	0.04258 A
	Instantaneous Partial Odd Harmonic Current (Inst. POHC)	0.01275 A
	Total Harmonic Distortion Current (THDC)	0.05347
<i>Average Values</i>		
	Total Harmonic Current (THC)	0.04200 A
	Instantaneous Partial Odd Harmonic Current (Inst. POHC)	0.01099 A
	Total Harmonic Distortion Current (THDC)	0.05275



Test setup

2.4.8 Test Location

This test was carried out in Harmonic Flicker Test area.

2.5 Electrostatic discharge immunity test

2.5.1 Specification Reference

EN IEC 61547:2023, Clause 5.2

2.5.2 Equipment Under Test

AOK-20WiLA-NV-L3-00-6570-T2-P, AOK-40WiLA-NV-L3-00-6570-T2-P, AOK-60WiLA-NV-L3-00-6570-T2-P, AOK-70WiLA-NV-L3-00-6570-T2-P, AOK-100WiLA-NV-L3-00-6570-T2-P, AOK-120WiLA-NV-L3-00-6570-T2-P, AOK-150WiLA-NV-L3-00-6570-T2-P and AOK-180WiLA-NV-L3-00-6570-T2-P

2.5.3 Date of Test

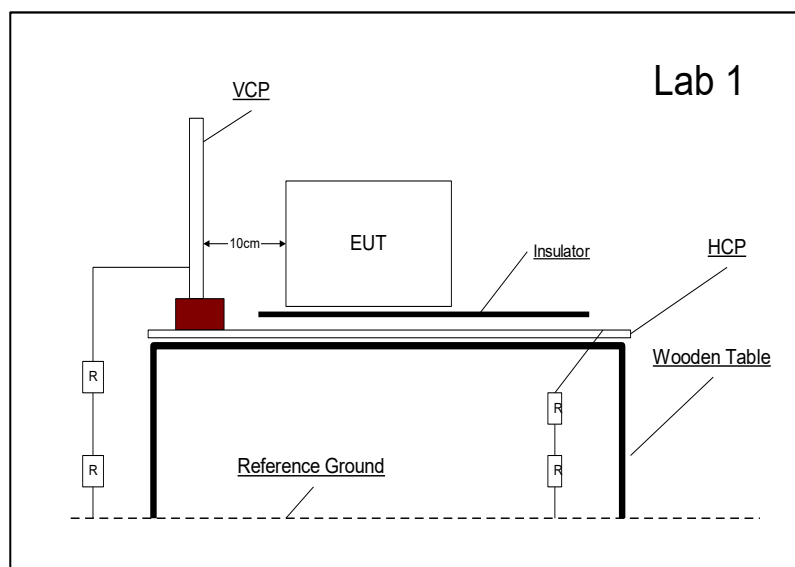
2026-01-23

2.5.4 Test Method

The equipment under test including associated cabling was configured on but insulated from, using a 0.5mm isolator, a horizontal coupling plane fitted to the top of a 0.8m non-conductive table for table-top equipment; and on a 0.1m insulated support for floor standing equipment; above a ground reference plane all within a test laboratory.

Using the air discharge method for non-metallic parts, contact discharge method for metallic parts with both vertical and horizontal couple plane discharge methods for the sides of the equipment under test, the required electrostatic discharge voltage levels in both voltage polarities were applied at the detailed pulse repartition rate.

During this testing any anomalies in the equipment under tests performance was recorded.



VCP: Vertical Coupling Plane 0.5 x 0.5 m

HCP: Horizontal Coupling Plane 0.95 x 1.6 m

R. Ground : 2 x 2 m

R : 470 kΩ

2.5.5 Environmental Conditions

Ambient Temperature	21.9-22.1 °C
Relative Humidity	47.2-48.3 %
Atmospheric Pressure	1019.0 mbar

2.5.6 Specification Limits

Required Test Levels				Performance Criteria
Discharge type	Discharge Level (kV)		Number of discharges per location (each polarity)	
	Positive	Negative		
Air – Direct	8	8	<10>	B
Contact – Direct	4	4	<10>	B
Contact – Indirect	4	4	<10>	B
Note1: Road and street lighting equipment shall be tested for air discharge at ±15 kV and for contact discharge at ±8 kV.				
Note2: Criterion C applies to lighting equipment (and/or modules) for road and street lighting.				

2.5.7 Test Results

Results for Configuration and Mode: AC 230V, 50Hz; Lighting and Handling.

Performance assessment of the EUT made during this test: Pass (Performance: A).

Detailed results are shown below.

Test Point	Discharge	Results									
		2kV		4kV		6kV		8kV		15kV	
		+	-	+	-	+	-	+	-	+	-
HCP	Contact	N/A	N/A	A	A	N/A	N/A	A	A	N/A	N/A
VCP	Contact	N/A	N/A	A	A	N/A	N/A	A	A	N/A	N/A
Each conductive location touchable by hand	Contact	N/A	N/A	A	A	N/A	N/A	A	A	N/A	N/A
Each nonconductive location touchable by hand	Air	N/A	N/A	N/A	N/A	N/A	N/A	A	A	A	A
N/A	Not Applicable										



Test Setup

2.5.8 Test Location

This test was carried out in ESD room.



2.6 Radiated, radio-frequency, electromagnetic field immunity test

2.6.1 Specification Reference

EN IEC 61547:2023, Clause 5.3

2.6.2 Equipment Under Test

AOK-20WiLA-NV-L3-00-6570-T2-P, AOK-40WiLA-NV-L3-00-6570-T2-P, AOK-60WiLA-NV-L3-00-6570-T2-P, AOK-70WiLA-NV-L3-00-6570-T2-P, AOK-100WiLA-NV-L3-00-6570-T2-P, AOK-120WiLA-NV-L3-00-6570-T2-P, AOK-150WiLA-NV-L3-00-6570-T2-P and AOK-180WiLA-NV-L3-00-6570-T2-P

2.6.3 Date of Test

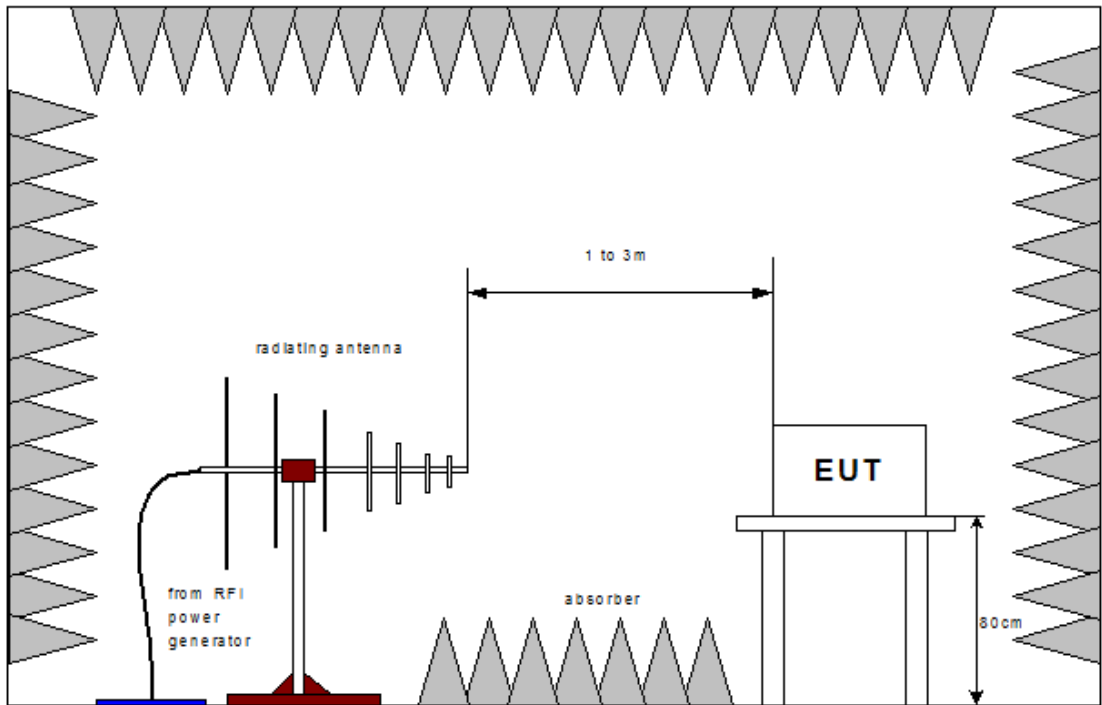
2023-10-19

2.6.4 Test Method

The equipment under test including associated cabling was configured, on a 0.8 m non-conductive table for table-top equipment and on a 0.1 m insulated support for floor standing equipment; with a pre-calibrated semi anechoic chamber.

All four side of the equipment under test were subjected to the required RF field strength, modulated as described, swept over the frequency range of test with the antenna positioned in both horizontal and vertical polarizations.

During this testing any anomalies in the equipment under tests performance was recorded.



2.6.5 Environmental Conditions

Ambient Temperature	24.4 °C
Relative Humidity	50.0 %

Atmospheric Pressure	1009.0 mbar
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2.6.6 Specification Limits

Required Test Levels					Performance Criteria
Frequency Range (MHz)	Level (V/m)	Modulation	Step Size (%)	Dwell (s)	
80 to 1000	3	AM (80 %, 1 kHz, sine wave)	1	≥0.5	A
Note 1. EUT powered at one of the Nominal input voltages and frequencies					

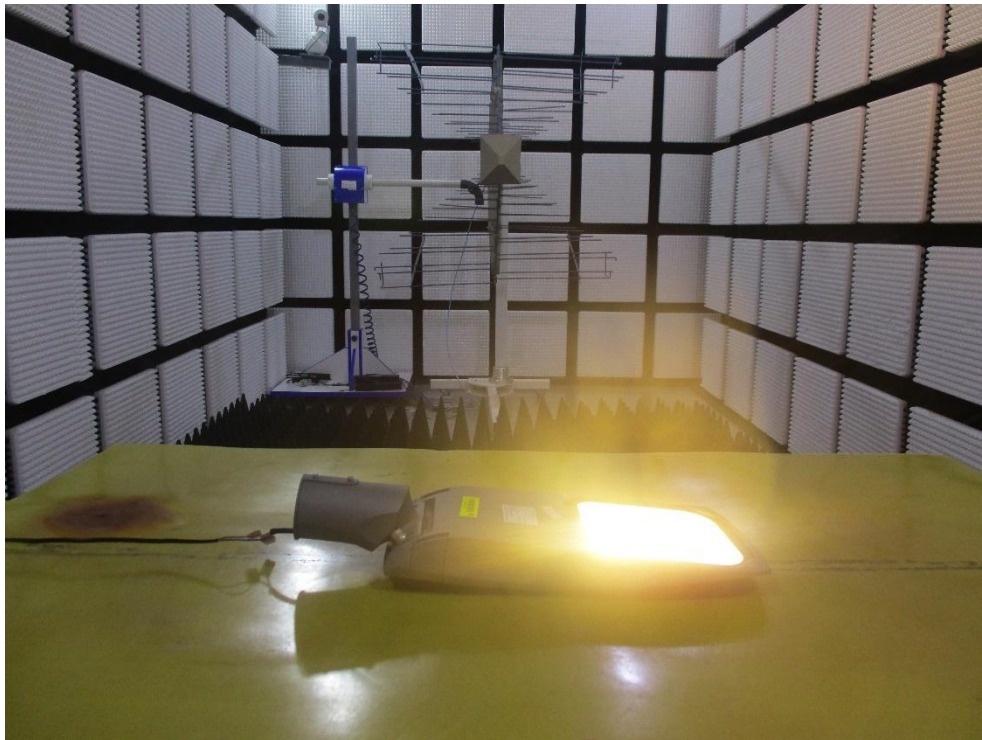
2.6.7 Test Results

Results for Configuration and Mode: AC 230V, 50Hz; Lighting.

Performance assessment of the EUT made during this test: Pass.

Detailed results are shown below.

Tabulated Results for RF Electromagnetic Field 80 - 1000 MHz				
Side of the equipment under test	Antenna polarization	Test Level	Dwell Time	Result
All sides	horizontal	3 V/m	1 s	A
All sides	vertical	3 V/m	1 s	A



Test Setup

2.6.8 Test Location

This test was carried out in 3m anechoic chamber.

2.7 Electrical fast transient /burst immunity test

2.7.1 Specification Reference

EN IEC 61547:2023, Clause 5.5

2.7.2 Equipment Under Test

AOK-20WiLA-NV-L3-00-6570-T2-P, AOK-40WiLA-NV-L3-00-6570-T2-P, AOK-60WiLA-NV-L3-00-6570-T2-P, AOK-70WiLA-NV-L3-00-6570-T2-P, AOK-100WiLA-NV-L3-00-6570-T2-P, AOK-120WiLA-NV-L3-00-6570-T2-P, AOK-150WiLA-NV-L3-00-6570-T2-P and AOK-180WiLA-NV-L3-00-6570-T2-P

2.7.3 Date of Test

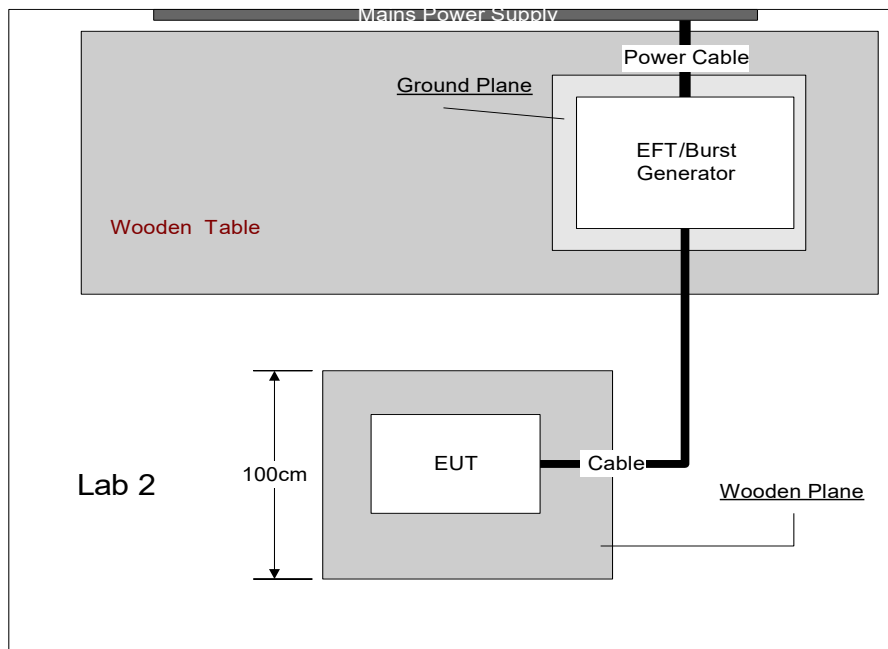
2023-10-19

2.7.4 Test Method

The equipment under test including associated cabling was configured on but insulated from, using a 0.1 m isolator, a horizontal coupling plane fitted to the top of a 0.8 m non-conductive table for table-top equipment; and on a 0.1 m insulated support for floor standing equipment; above a ground reference plane all within a test laboratory.

Using a CDN for power ports, capacitive coupling clamp for signal and control ports and a 33nF coupling capacitor for earth ports, the required fast transient burst voltage levels in both voltage polarities were applied at the detailed pulse repartition rate and duration of test.

During this testing any anomalies in the equipment under tests performance was recorded.



2.7.5 Environmental Conditions

Ambient Temperature	23.4 °C
Relative Humidity	58.4 %
Atmospheric Pressure	1007.0 mbar

2.7.6 Specification Limits

Required Test Levels at input and output a.c. power port					Performance Criteria
Line Under Test	Level (kV)	Repetition Rate (kHz)	Test Duration	Coupling Method	
AC Power Port	± 1	5 kHz	2 min per polarity	Direct	B
Note 1. EUT powered at one of the Nominal input voltages and frequencies					

Required Test Levels at input and output d.c. power ports					Performance Criteria
Line Under Test	Level (kV)	Repetition Rate (kHz)	Test Duration	Coupling Method	
DC Power Port	± 0.5	5 kHz	1 min per polarity	Direct	B
Note Not applicable to equipment not connected to the mains while in use.					

Required Test Levels at ports for signal and control lines					Performance Criteria
Line Under Test	Level (kV)	Repetition Rate (kHz)	Test Duration	Coupling Method	
Signal/control lines and load ports	± 0.5	5	1 min per polarity	Clamp	B
Note 1. Only applicable to ports interfacing with cables whose total length, according to the manufacturer's specification, may exceed 3m.					
Note 2 Change of state commands are not applied during the test.					

2.7.7 Test Results

Results for Configuration and Mode: AC 230V, 50Hz; Lighting.

Performance assessment of the EUT made during this test: Pass.

Detailed results are shown below.

Tabulated Results for Fast Transient Burst Immunity (power port)					
Line under test	Test Level (kV)	Repetition Rate	Test Duration	Coupling Method	Result
AC Power Port	± 1.0	5 kHz	1 min per polarity	Direct	A



Test Setup

2.7.8 Test Location

This test was carried out in EMS Test Location.

2.8 Immunity to conducted disturbances, induced by radio-frequency fields

2.8.1 Specification Reference

EN IEC 61547:2023, Clause 5.6

2.8.2 Equipment Under Test

AOK-20WiLA-NV-L3-00-6570-T2-P, AOK-40WiLA-NV-L3-00-6570-T2-P, AOK-60WiLA-NV-L3-00-6570-T2-P, AOK-70WiLA-NV-L3-00-6570-T2-P, AOK-100WiLA-NV-L3-00-6570-T2-P, AOK-120WiLA-NV-L3-00-6570-T2-P, AOK-150WiLA-NV-L3-00-6570-T2-P and AOK-180WiLA-NV-L3-00-6570-T2-P

2.8.3 Date of Test

2023-10-20

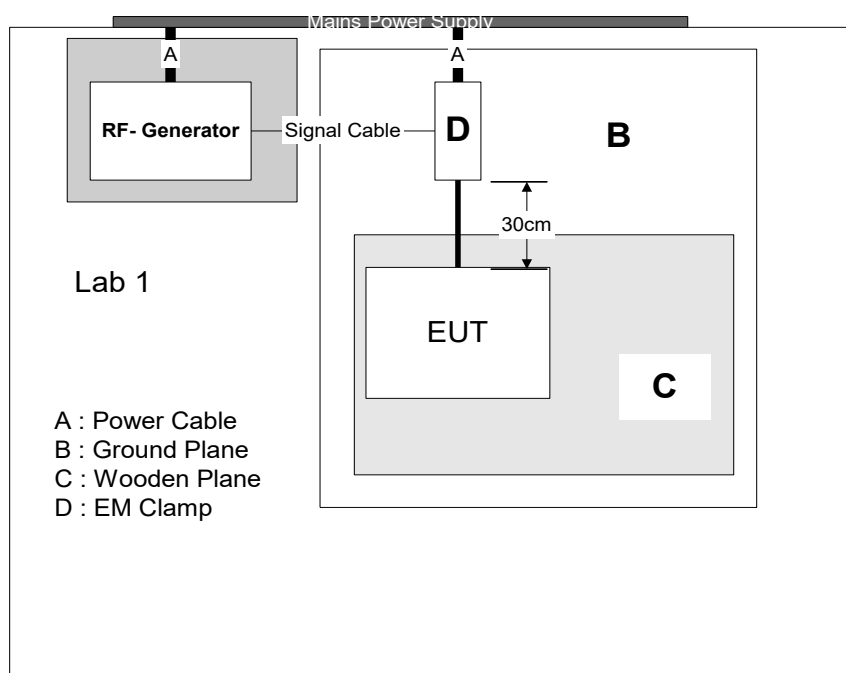
2.8.4 Test Method

The equipment under test was configured, on but insulated from, using a 0.1 m isolator, a horizontal coupling plane fitted to the top of a 0.8 m non-conductive table for table-top equipment; and on a 0.1 m insulated support for floor standing equipment; above a ground reference plane all within a test laboratory.

All associated cabling was configured, on but insulated from, using a 50 mm isolator, the same horizontal coupling plane as the equipment under test.

Using CDNs, EM Clamps or current clamps as appropriate, the power ports and applicable signal and control ports were subjected to the required, pre calibrated RF injected signal strength, modulated as described, swept over the frequency range of test.

During this testing any anomalies in the equipment under tests performance was recorded.



2.8.5 Environmental Conditions

Ambient Temperature	24.3 °C
Relative Humidity	57.3 %
Atmospheric Pressure	1007.0 mbar

2.8.6 Specification Limits

Required Test Levels at ports for signal and control lines						Performance Criteria
Line Under Test	Frequency Range (MHz)	Level (V)	Modulation	Step Size (%)	Dwell (s)	
Signal and control lines	0.15 to 80	3	AM (80 %, 1 kHz, sine wave)	1	1	A
Note Only applicable to ports interfacing with cables whose total length, according to the manufacturer's specification, may exceed 3m						

Required Test Levels at input and output d.c. power ports						Performance Criteria
Line Under Test	Frequency Range (MHz)	Level (V)	Modulation	Step Size (%)	Dwell (s)	
DC power ports	0.15 to 80	3	AM (80 %, 1 kHz, sine wave)	1	1	A
Note Only applicable to equipment that is connected to the mains while in use.						

Required Test Levels at input and output a.c. power ports						Performance Criteria
Line Under Test	Frequency Range (MHz)	Level (V)	Modulation	Step Size (%)	Dwell (s)	
AC power ports	0.15 to 80	3	AM (80 %, 1 kHz, sine wave)	1	1	A
Note Only applicable to ports interfacing with cables whose total length, according to the manufacturer's specification, may exceed 3m						

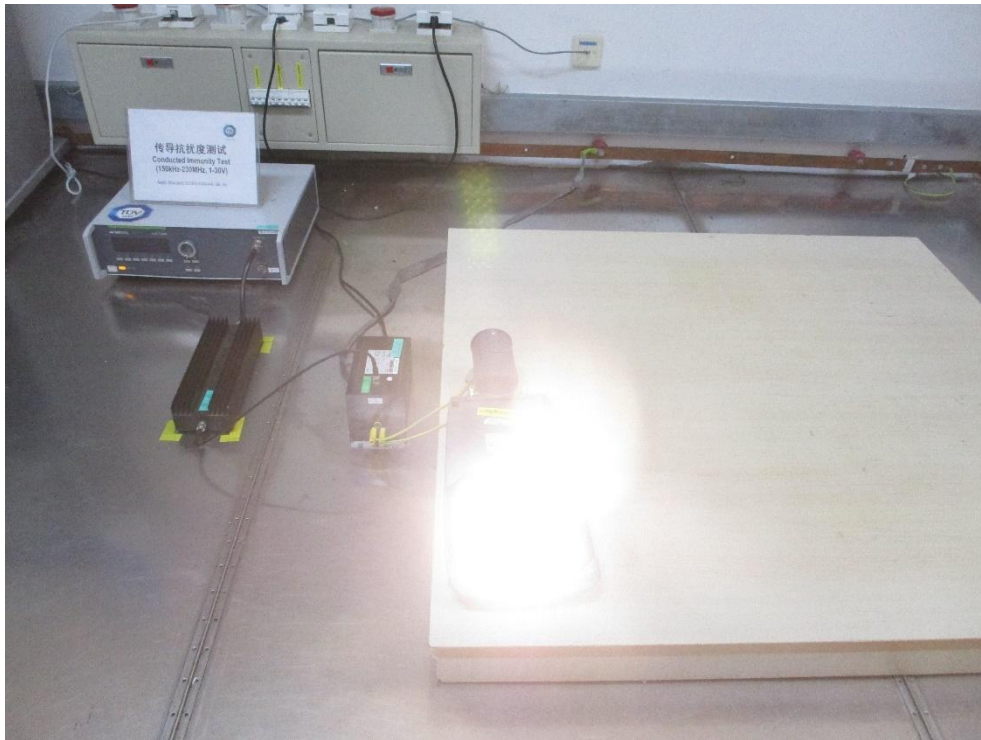
2.8.7 Test Results

Results for Configuration and Mode: AC 230V, 50Hz; Lighting.

Performance assessment of the EUT made during this test: Pass.

Detailed results are shown below.

Tabulated Results for Injected current						
Line under test	Test Level	Step	Dwell Time	Coupling Method	Modulation	Result
AC power Port	3V	1%	1 s	CDN	1KHZ 80%	A



Test Setup

2.8.8 Test Location

This test was carried out in EMS Test Location.



2.9 Surge immunity test

2.9.1 Specification Reference

EN IEC 61547:2023, Clause 5.7

2.9.2 Equipment Under Test

AOK-20WiLA-NV-L3-00-6570-T2-P, AOK-40WiLA-NV-L3-00-6570-T2-P, AOK-60WiLA-NV-L3-00-6570-T2-P, AOK-70WiLA-NV-L3-00-6570-T2-P, AOK-100WiLA-NV-L3-00-6570-T2-P, AOK-120WiLA-NV-L3-00-6570-T2-P, AOK-150WiLA-NV-L3-00-6570-T2-P and AOK-180WiLA-NV-L3-00-6570-T2-P

2.9.3 Date of Test

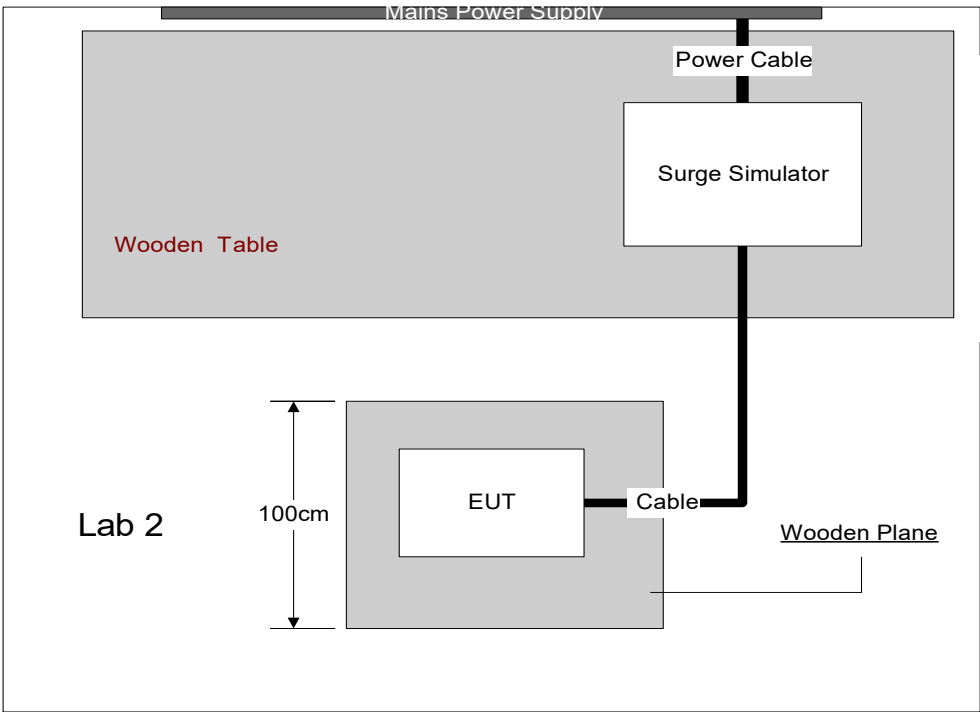
2026-01-23

2.9.4 Test Method

The equipment under test including associated cabling was configured, on a 0.8 m non-conductive table for table-top equipment and on a 0.1 m insulated support for floor standing equipment above a ground reference plane all within a test laboratory.

Using CDNs for power ports and appropriate coupling methods for applicable signal and control ports, the required number of surges was applied for each surge voltage level using both positive and negative surge voltage polarities. Surges were applied at the power line frequency phase angles and repartition rates detailed.

During this testing any anomalies in the equipment under tests performance was recorded.



2.9.5 Environmental Conditions

Ambient Temperature	24.3 °C
Relative Humidity	57.4 %

Atmospheric Pressure	1007.0 mbar
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2.9.6 Specification Limits

Characteristics	Test Levels		Performance Criteria
	Device		
	Self-ballasted lamps ≤ 25 W	Lighting equipment (except self-ballasted lamps ≤ 25 W)	
Wave-shape data	1.2/50 μs	1.2/50 μs	C
Test levels line to line	± 0.5 kV	± 1.0 kV	Emergency
line to ground	N.A.	±2.0 kV	Light: B
Note 1: In addition to the specified test level, all lower levels as detailed in IEC 61000-4-5 should also be satisfied.			
Note 2: Road and street lighting equipment shall comply with ±2.0 kV line to line and ±4.0 kV line to ground voltages.			
Note 3: For emergency lighting equipment designed to operate in high-risk task areas, after the test, the luminous intensity shall be restored to its initial value within 0.5 s.			

2.9.7 Test Results

Results for Configuration and Mode: AC 230V, 50Hz; Lighting.

Performance assessment of the EUT made during this test: Pass.

Detailed results are shown below.

Tabulated Results for Surge Immunity (Power Ports)							
Line Name	Coupling	Level	Polarity	Phase Angle	No of Pulses	Repetition Rate	Result
Power line	Live to Neutral	-0.5kV, -1.0kV, -2.0kV	NEGATIVE	270 deg	5	60 sec	Pass (B)
Power line	Live to Neutral	+0.5kV, +1.0kV, +2.0kV	POSITIVE	90 deg	5	60 sec	Pass (B)
Remark: Temporary degradation of performance during testing							



Test Setup

2.9.8 Test Location

This test was carried out in EMS Test Location.

2.10 Voltage dips, short interruptions and voltage variations immunity test

2.10.1 Specification Reference

EN IEC 61547:2023, Clause 5.8

2.10.2 Equipment Under Test

AOK-20WiLA-NV-L3-00-6570-T2-P, AOK-40WiLA-NV-L3-00-6570-T2-P, AOK-60WiLA-NV-L3-00-6570-T2-P, AOK-70WiLA-NV-L3-00-6570-T2-P, AOK-100WiLA-NV-L3-00-6570-T2-P, AOK-120WiLA-NV-L3-00-6570-T2-P, AOK-150WiLA-NV-L3-00-6570-T2-P and AOK-180WiLA-NV-L3-00-6570-T2-P

2.10.3 Date of Test

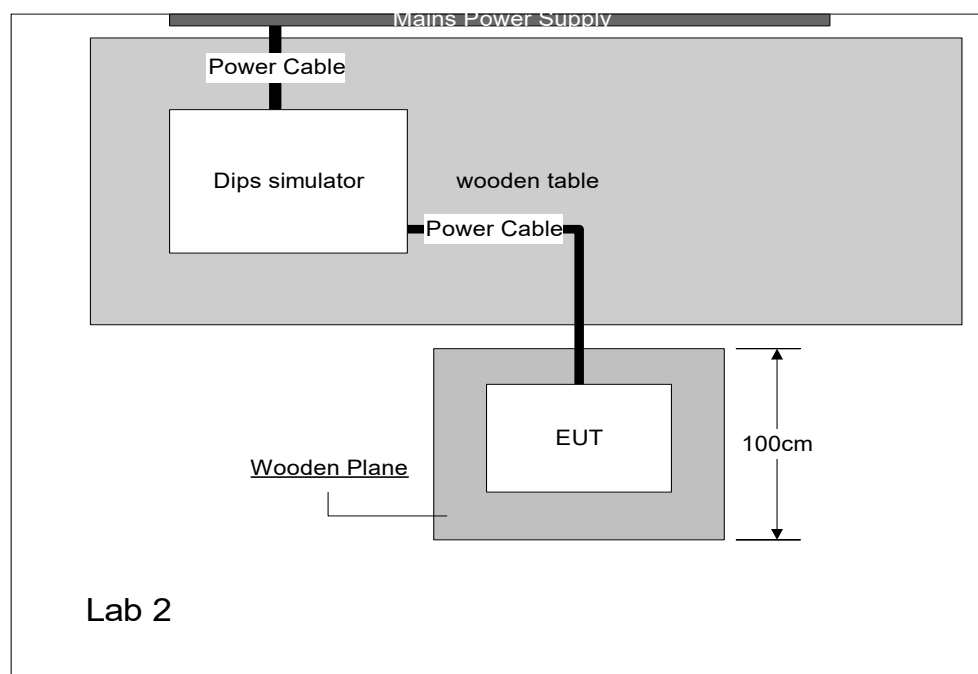
2023-10-19

2.10.4 Test Method

The equipment under test including associated cabling was configured, on a 0.8 m non-conductive table for table-top equipment and on a 0.1 m insulated support for floor standing equipment above a ground reference plane all within a test laboratory.

Using a programmable power supply the equipment under test was subjected to the detailed supply voltage dips and interruptions. The required supply phase synchronization and test repetition rate, detailed, was controlled by the programmable power supply.

During this testing any anomalies in the equipment under tests performance was recorded.



2.10.5 Environmental Conditions

Ambient Temperature	24.3 °C
Relative Humidity	57.3 %

Atmospheric Pressure	1007.0 mbar
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2.10.6 Specification Limits

Required Test Levels			Performance Criteria
Test	Test Level	Duration	
Voltage Dip	0 % of Vnom	½ cycle	B
Voltage Dip	70 % of Vnom	10 cycles	B
Note: EUT powered at one of the Nominal input voltages and frequencies. Note a: For lighting equipment where the light source is not able to restart within 1 min, due to the physical constraints of the light source, performance criterion C applies.			

2.10.7 Test Results

Results for Configuration and Mode: AC 230V, 50Hz; Lighting.

Performance assessment of the EUT made during this test: Pass.

Detailed results are shown below.

Tabulated Results for Voltage Dip and Short Interruption					
Line under test	Vnom	Operating Frequency	Test Level	Duration	Result
power line	230 Vac	50 Hz	0% of Vnom	½ cycle	A
power line	230 Vac	50 Hz	70% of Vnom	10 cycles	A
Remark: N/A					



Test Setup

2.10.8 Test Location

This test was carried out in EMS Test Location.

3 Test Equipment Information

General Test Equipment Used

Disturbance voltage at the electric power supply interface Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 3	68-4-74-14-001	101782	1	2024-5-20
LISN	Rohde & Schwarz	ENV4200	68-4-87-14-001	100249	1	2024-5-20
LISN	Rohde & Schwarz	ENV432	68-4-87-16-001	101318	1	2024-5-20
LISN	Rohde & Schwarz	ENV216	68-4-87-14-002	100326	1	2024-5-20
ISN	Rohde & Schwarz	ENY81	68-4-87-14-003	100177	1	2024-5-20
ISN	Rohde & Schwarz	ENY81-CA6	68-4-87-14-004	101664	1	2024-5-20
High Voltage Probe	Schwarzbeck	TK9420(VT9420)	68-4-27-14-001	9420-584	1	2024-5-28
RF Current Probe	Rohde & Schwarz	EZ-17	68-4-27-14-002	100816	1	2024-5-28
Attenuator	Shanghai Huaxiang	TS2-26-3	68-4-81-16-003	080928189	1	2024-5-19
Test software	Rohde & Schwarz	EMC32	68-4-90-14-003-A10	Version9.15.00	N/A	N/A
Shielding Room	TDK	CSR #1	68-4-90-19-004	----	3	2025-10-15

Radiated Disturbance (9KHz to 30MHz)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 3	68-4-74-19-002	102590	1	2024-5-19
Triple Loop Antenna	Rohde & Schwarz	HM020	68-4-80-14-001	100951	1	2024-6-14
Test software	Rohde & Schwarz	EMC32	68-4-90-19-005-A01	Version 10.35.02	N/A	N/A

Radiated Disturbance (30MHz-1000MHz)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2024-5-20
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9162	68-4-80-19-003	284	1	2024-3-5
Wave Guide Antenna	ETS	3117	68-4-80-19-001	00218954	1	2024-4-26
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-001	100745	1	2024-5-19
Pre-amplifier	Rohde & Schwarz	SCU 08F2	68-4-29-19-004	08400018	1	2024-5-19
Sideband Horn Antenna	Q-PAR	QWH-SL-18-40-K-SG	68-4-80-14-008	12827	1	2024-7-11
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14-002	100432	1	2024-8-1
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006	----	2	2024-5-19
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006-A01	Version10.35.02	N/A	2024-5-28

Harmonic current emission Test and Flicker Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
Harmonic flicker test system	Ametek	DPA500N	68-4-74-22-001	P2148258408	1	2024-6-14
Test software	Ametek	NET.CONTROL	68-4-74-22-001-A02	Version 3.2.3	N/A	N/A

Electrostatic Discharge Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
Electrostatic Discharge Simulator	Noiseken	ESS-B3011A	68-4-75-23-001	ESS2224425	1	2027-2-10

Radiated Immunity Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
Signal Generator	Rohde & Schwarz	SMB100A	68-4-48-14-002	177600	1	2024-5-19
Power Amplifier	Rohde & Schwarz	BBA100	68-4-28-14-001	101238	1	2024-5-20
Power Amplifier	Rohde & Schwarz	BBA150	68-4-28-14-002	101671	1	2024-5-20
Power Amplifier	Rohde & Schwarz	BBA150-E100	68-4-28-17-001	102640	1	2024-5-20
Log-Periodic Antenna	Rohde & Schwarz	HL046E	68-4-80-14-009	100160	N/A	N/A
Microwave Log-Periodic Antenna	Rohde & Schwarz	STLP 9149	68-4-80-17-001	9149-453	N/A	N/A
Power Meter	Rohde & Schwarz	NRP2	68-4-32-14-001	103497	1	2024-5-19
Average Power Sensor	Rohde & Schwarz	NRP-Z91	68-4-32-14-001-A01	102538	1	2024-5-19
Average Power Sensor	Rohde & Schwarz	NRP-Z91	68-4-32-14-001-A02	102539	1	2024-5-19
Starprobe Laser-Powered Probe	AMPLIFIER RESEARCH	FL7006/KIT	68-4-27-14-003	0433720	1	2024-8-13
Audio Analyzer	Rohde & Schwarz	UPV	68-4-74-18-001	104348	1	2024-5-20
Fully Anechoic Chamber	TDK	8X4X4	68-4-90-14-002	--	2	2024-9-2
Test software	Rohde & Schwarz	EMC32	68-4-90-14-002-A11	Version 9.15.03	N/A	N/A

Electrical Fast Transients Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
Immunity simulator	EMTEST	UCS 500N7	68-4-75-14-001	P1313116005	1	2024-5-19
7kV Coupling network 3-phase	EMTEST	CNI 503B5	68-4-75-14-001-A07	P1425134991	1	2024-5-19
Capacitive Coupling Clamp	EMTEST	HFK	68-4-75-14-001-A01	P1426135389	1	2024-5-19
Test software	EMTEST	iec.control	68-4-75-14-001-A10	Version 5.3.1	N/A	N/A

Surges Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
Immunity simulator	EMTEST	UCS 500N7	68-4-75-14-001	P1313116005	1	2026-4-29
7kV Coupling network 3-phase	EMTEST	CNI 503B5	68-4-75-14-001-A07	P1425134991	1	2026-4-25
Telecom Surge Module	EMTEST	Tsurge 7	68-4-75-14-001-A08	P1420134206	1	2026-4-29
4kV coupling/decoupling network	EMTEST	CNV 504 N1	68-4-75-14-001-A02	P1420134192	1	2026-4-29
4kV CDN for 8 telecom lines	EMTEST	CNV 508 S1	68-4-75-14-001-A03	P1431137565	1	2026-4-29
Test software	EMTEST	iec.control	68-4-75-14-001-A10	Version 5.3.1	N/A	N/A

**Conducted Immunity Test**

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
Continuous Wave Simulator	EMTEST	CWS 500N1	68-4-75-14-002	P1420134224	1	2024-5-19
Attenuator	EMTEST	ATT6/80	68-4-75-14-002-A01	P1402129090	1	2024-5-20
CDN	EMTEST	CDN-M2/M3	68-4-75-14-002-A02	P1420134163	1	2024-5-19
CDN	EMTEST	CDN-M4	68-4-75-14-002-A03	P1346125919	1	2024-5-19
Electromagnetic Injection Clamp	EMTEST	EM101	68-4-75-14-002-A04	P1411132453	1	2024-5-19
Current injection probe	TESEQ	CIP 9136A	68-4-27-22-001	63664	1	2024-5-20
Test software	EMTEST	icd.control	68-4-75-14-002-A10	Version 5.2.9	N/A	N/A

Voltage Dips and Interruptions Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
Immunity simulator	EMTEST	UCS 500N7	68-4-75-14-001	P1313116005	1	2024-5-19
Motorized Variac	EMTEST	MV2616	68-4-75-14-001-A04	P1401128623	1	2024-5-19
Switch-Box for phase by phase	EMTEST	PFLS 32N1	68-4-75-14-001-A09	P1251107106	N/A	N/A
Test software	EMTEST	iec.control	68-4-75-14-001-A10	Version 5.3.1	N/A	N/A

4 Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 30MHz-1000MHz	Horizontal: 4.63dB; Vertical: 4.78dB
Uncertainty for Conducted Emission in new shielding room (68-4-90-19-005)	3.58dB
Uncertainty for Conducted Emission in new shielding room (68-4-90-19-005) 150kHz-30MHz (for test using AMN ENV216)	3.15dB
Uncertainty for Radiated Electromagnetic Disturbance 9KHz-30MHz	3.20dB
Uncertainty for Harmonic test	1.12%
Uncertainty for Flicker test	5.97%
Uncertainty for RS test	1.78dB
Uncertainty for CS test	1.41dB (CDN), 3.23dB (EM Clamp) 3.41dB (Current Clamp))
Uncertainty for ESD test	The immunity measurement system uncertainty is within standard requirement and is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%.
Uncertainty for EFT test	
Uncertainty for Surges test	
Uncertainty for Voltage Dips, Voltage Variations and Short Interruptions Test	

Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2023, clause 4.3.3 and 4.3.4.

5 Photographs

Details of: Front view for 20 to 60W models (Size: 537*237*89mm)
Remark: representative model: AOK-60WILA-NV-L3-00-6570-T2-P



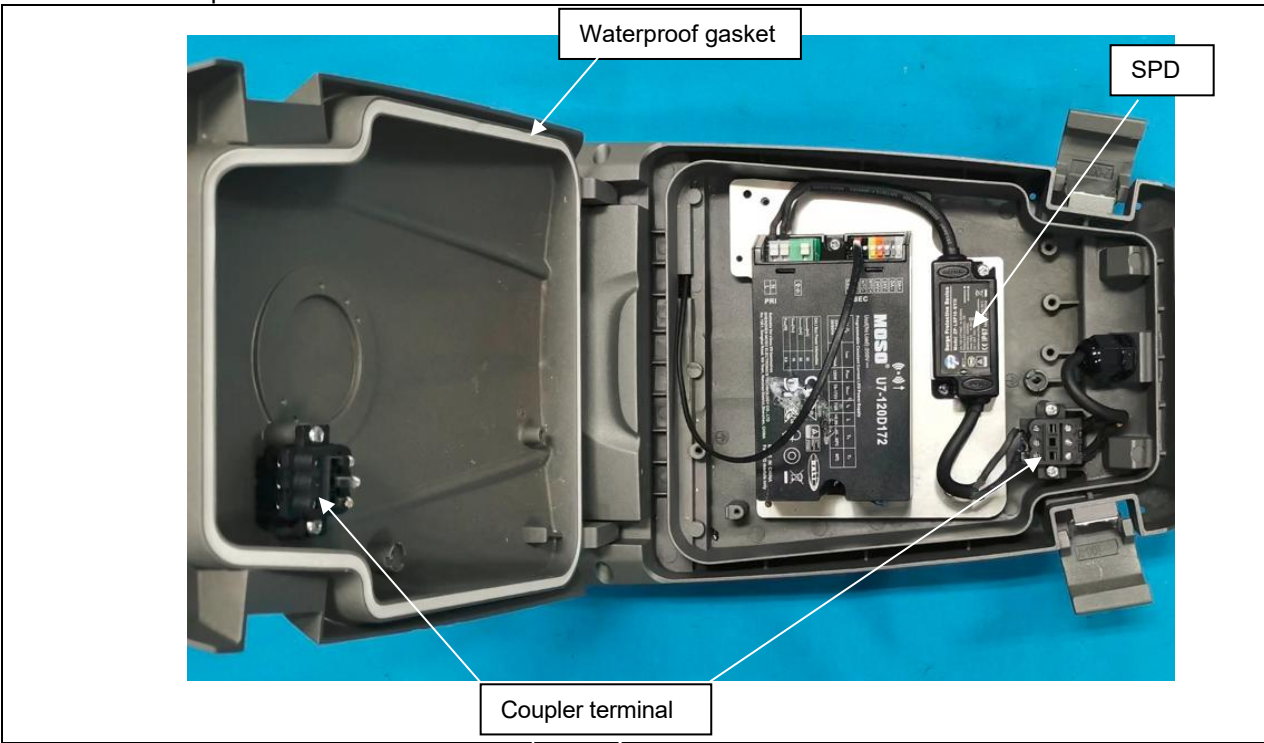
Details of: Front view for 70 to 110W models (Size: 587*257*89mm)
Remark: representative model: AOK-110WILA-NV-L3-00-6570-T2-P



Details of: Back view for models without NEMA socket & short-circuit cap
Remark: representative model: AOK-110WILA-NV-L3-00-6570-T2-P



Details of: Internal view for models without NEMA socket & short-circuit cap
Remark: representative model: AOK-110WILA-NV-L3-00-6570-T2-P



Details of: Internal view for models without NEMA socket & short-circuit cap
Remark: representative model: AOK-110WILA-NV-L3-00-6570-T2-P



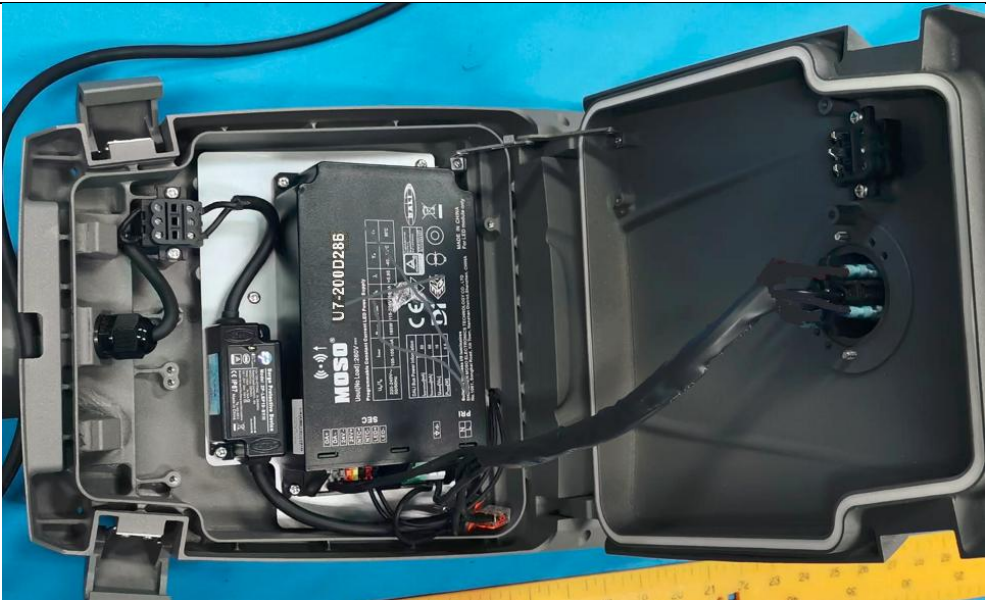
Details of: Front view for 120 to 180W models (Size: 632*259*89mm)
Remark: representative model: AOK-180WILA-NV-L3-SN-6570-T2-P



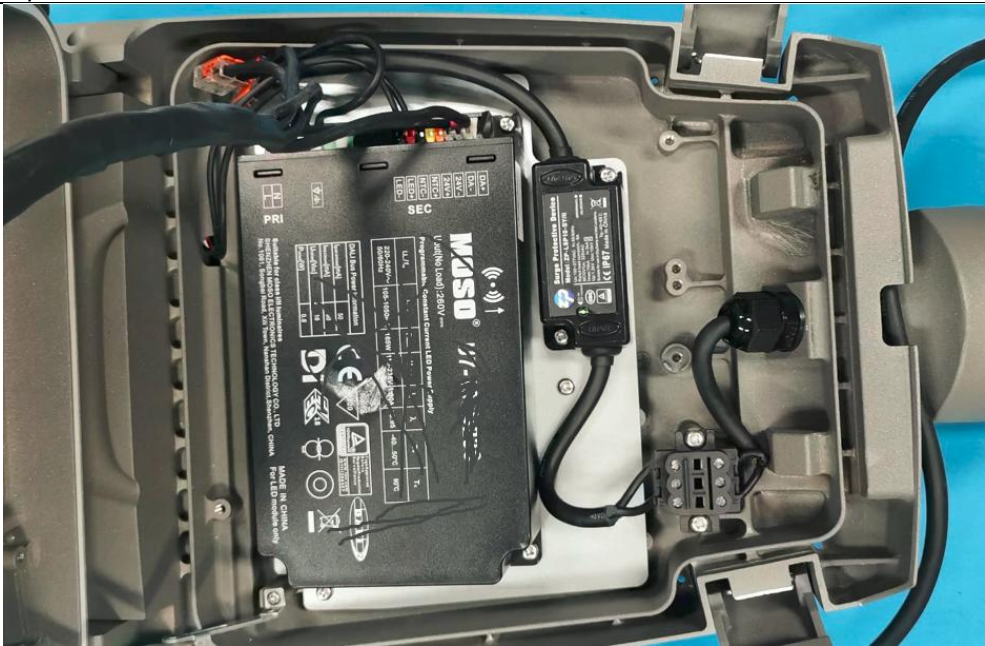
Details of: Back view for models with NEMA socket & short-circuit cap
Remark: representative model: AOK-180WILA-NV-L3-SN-6570-T2-P



Details of: Internal view for models with NEMA socket & short-circuit cap
Remark: representative model: AOK-180WILA-NV-L3-SN-6570-T2-P



Details of: Internal view for models with NEMA socket & short-circuit cap
Remark: representative model: AOK-180WILA-NV-L3-SN-6570-T2-P



Details of: Cord anchorages view for all models
Remark: representative model: AOK-180WILA-NV-L3-SN-6570-T2-P



Details of: Internal view for models with 'L3'

Remark: representative model: AOK-180WILA-NV-L3-SN-6570-T2-P



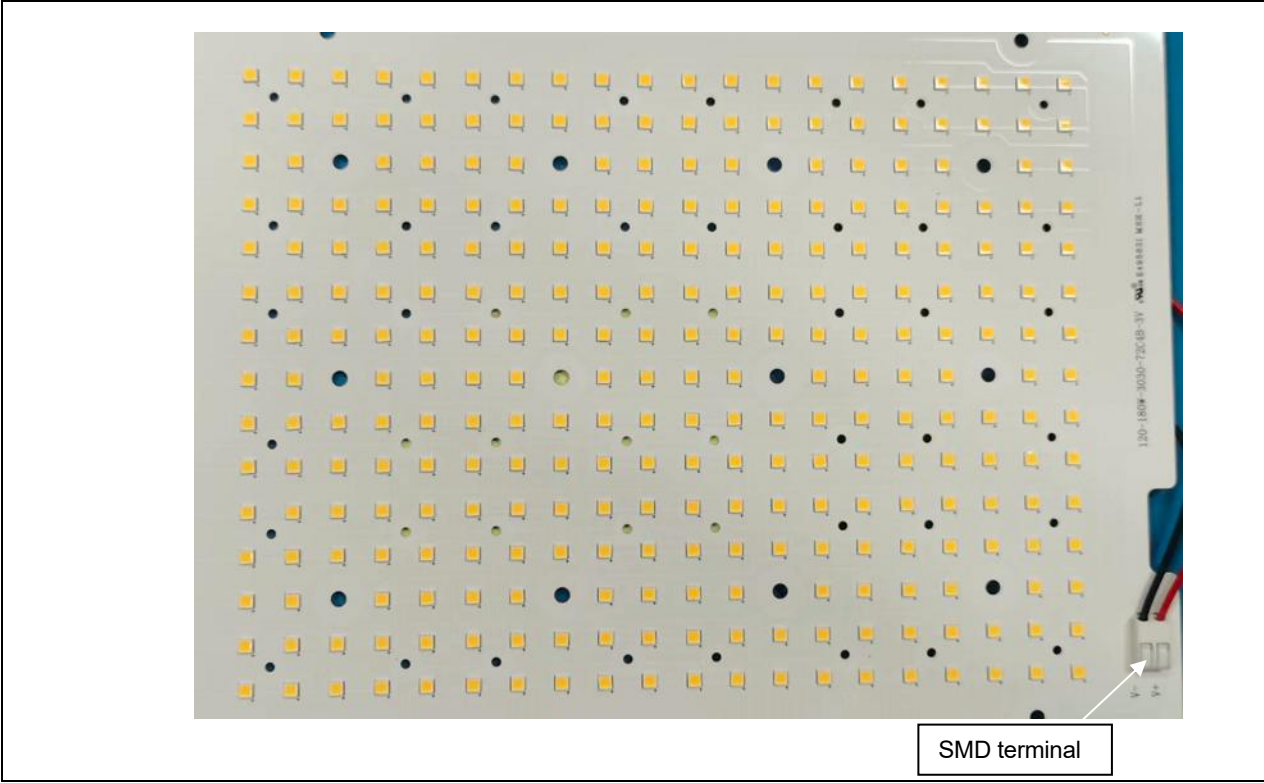
Details of: LED lens view for models with 'L3'

Remark: representative model: AOK-180WILA-NV-L3-SN-6570-T2-P



Details of: LED module view for models with 'L3'

Remark: representative model: AOK-180WiLA-NV-L3-SN-6570-T2-P



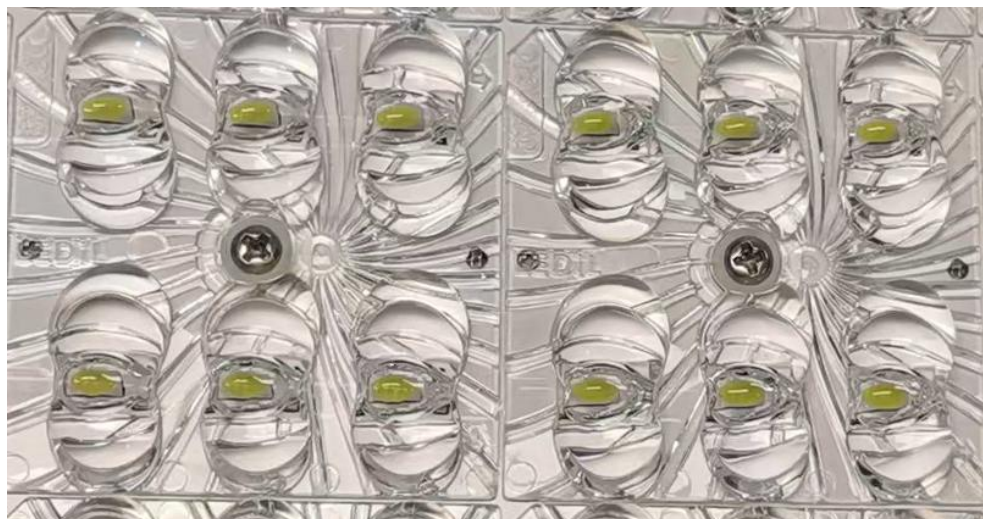
Details of: Internal view for models with 'L5'

Remark: representative model: AOK-180WiLA-NV-L5-SN-6570-T2-P



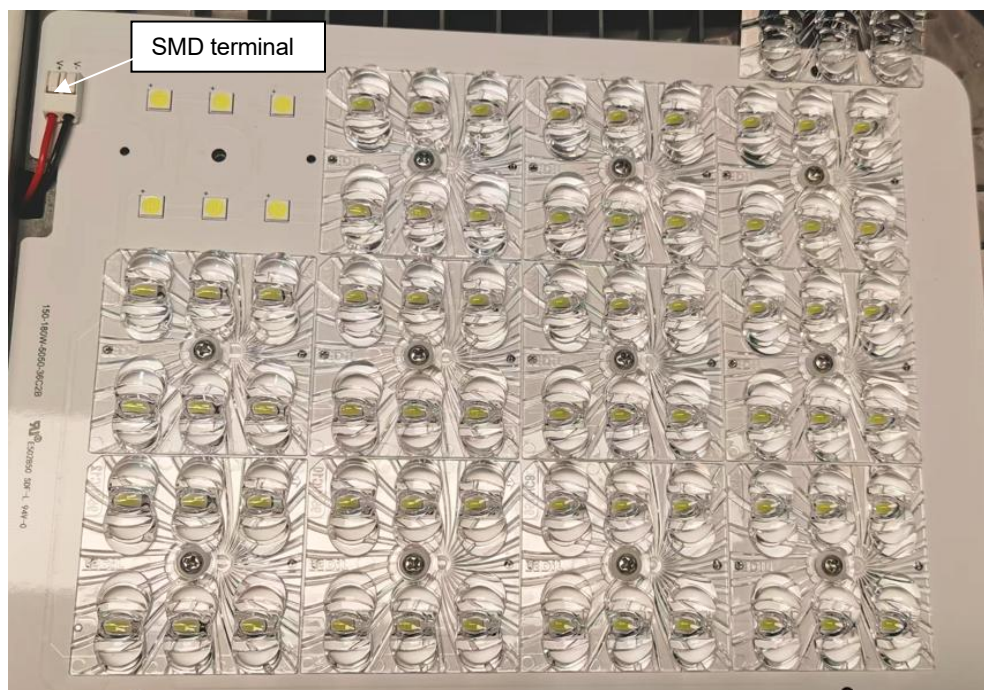
Details of: LED lens view for models with 'L5'

Remark: representative model: AOK-180WiLA-NV-L5-SN-6570-T2-P

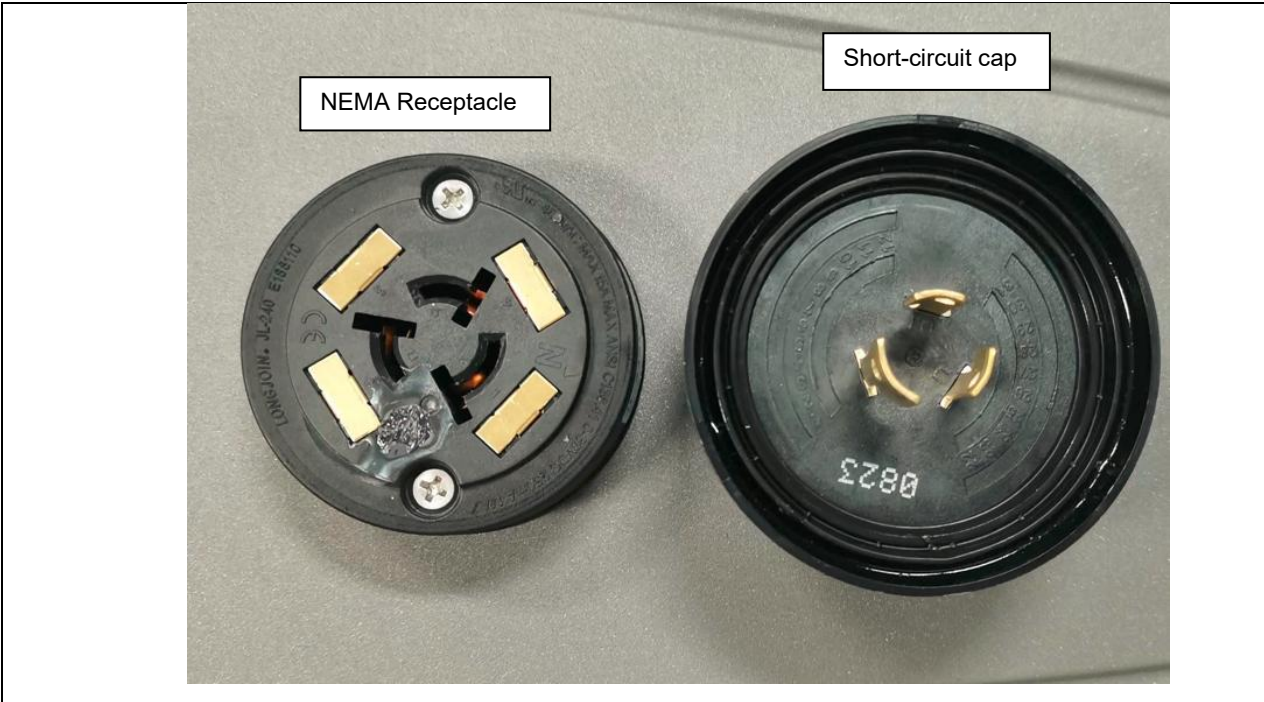


Details of: LED module view for models with 'L5'

Remark: representative model: AOK-180WiLA-NV-L5-SN-6570-T2-P



Details of: Internal view of receptacle after removed short-circuit cap
Remark:



Details of: Surge Protective Device (SPD) view for ZP-LSP10- SY/II and ZP-LSP20-SY/II
Remark: representative model: ZP-LSP10- SY/II





Details of: Surge Protective Device (SPD) view for ZYS-P10SD/II, ZYS-P10WD, ZYS-P20SD/II and ZYS-P20WD

Remark: representative model: ZYS-P20SD/II



Details of: LED driver view

Remark: SS-22PA-32B





Details of: LED driver view
Remark: SS-40PA-54B



Details of: LED driver view
Remark: SS-75PA-108B





Details of: LED driver view
Remark: SS-110PA-160B



Details of: LED driver view
Remark: SS-165PA-235B





Details of: LED driver view
Remark: U7-026D038



Details of: LED driver view
Remark: U7-040D057





Details of: LED driver view

Remark: U7-060D086



Details of: LED driver view

Remark: U7-080D115





Details of: LED driver view
Remark: U7-120D172



Details of: LED driver view
Remark: U7-165D236





Details of: LED driver view

Remark: U7-200D286



--- END OF TEST REPORT ---