



Certificate Number: 4902.01

Prüfbericht-Nr.: <i>Test report no.:</i>	CN23MF15 001	Auftrags-Nr.: <i>Order no.:</i>	180269917	Seite 1 von 21 Page 1 of 21
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	1288983	Auftragsdatum: <i>Order date:</i>	2023.08.24	
Auftraggeber: <i>Client:</i>	IKEA of Sweden AB Box 702, SE-343 81 Älmhult, Sweden			
Prüfgegenstand: <i>Test item:</i>	LED spotlight			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	L2305 KÖLVATTEN			
Auftrags-Inhalt: <i>Order content:</i>	TÜV Rheinland – EMC Service			
Prüfgrundlage: <i>Test specification:</i>	FCC 47 CFR Part 15 Subpart B:2021 Class B ICES-005:2018			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2023.08.24	Refer to the EUT photos file		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003547181-004			
Prüfzeitraum: <i>Testing period:</i>	2023.08.25-2023.08.26			
Ort der Prüfung: <i>Place of testing:</i>	Refer to section 1.1			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland / CCIC (Ningbo) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>			genehmigt von: <i>authorized by:</i>	
Datum: <i>Date:</i>	2023.09.06		Ausstelldatum: <i>Issue date:</i>	2023.09.06
Stellung / Position:	Chao Zhang/PE		Stellung / Position:	Feng Liang/Authorizer
Sonstiges / Other:	FCC ID: FHO-L2305			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht getestet
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested
<p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>				

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Prüfbericht - Nr.: CN23MFI5 001
Test Report No.:

Seite 2 von 21
Page 2 of 21

Anmerkungen
Remarks

1	<p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system.</i></p> <p><i>Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>
2	<p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben.</p> <p><i>As contractually agreed, this document has been signed digitally only. TÜV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TÜV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged.</i></p>
3	<p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>
4	<p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p>

Prüfbericht - Nr.: CN23MFI5 001
Test Report No.:

Seite 3 von 21
Page 3 of 21

Test Summary

5.1.1 MAINS TERMINAL CONTINUOUS DISTURBANCE VOLTAGE

Result:

Pass

5.2.1 RADIATED DISTURBANCE

Result:

Pass

Contents

1	TEST SITES	5
1.1	TEST FACILITIES	5
1.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS	5
1.3	MEASUREMENT UNCERTAINTY.....	5
2	GENERAL PRODUCT INFORMATION.....	6
2.1	PRODUCT FUNCTION AND INTENDED USE	6
2.2	RATINGS AND SYSTEM DETAILS	6
2.3	INDEPENDENT OPERATION MODES	6
2.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS.....	6
2.5	SUBMITTED DOCUMENTS	6
3	TEST SET-UP AND OPERATION MODES.....	7
3.1	PRINCIPLE OF CONFIGURATION SELECTION	7
3.2	EQUIPMENT AND CABLE ARRANGEMENT	7
3.3	TEST OPERATION AND TEST SOFTWARE.....	8
3.4	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	8
3.5	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	8
4	CONFORMITY DECISION RULE.....	9
5	TEST RESULTS EMISSION	10
5.1	EMISSION IN THE FREQUENCY RANGE UP TO 30 MHz	10
5.1.1	<i>Mains Terminal Continuous Disturbance Voltage.....</i>	<i>10</i>
5.2	EMISSION IN THE FREQUENCY RANGE ABOVE 30 MHz	15
5.2.1	<i>Radiated disturbance</i>	<i>15</i>
6	PHOTOGRAPHS OF THE TEST SET-UP	20
6	LIST OF TABLES.....	21
7	LIST OF FIGURES.....	21

1 Test Sites

1.1 Test Facilities

Laboratory: TÜV Rheinland / CCIC(Ningbo) Co., Ltd.

1st Floor, Building 11, Scholar Innovation Park, No.1188 Zhongguan Road, Zhenhai District, Ningbo 315200 P.R. China.

FCC Designation Number: CN1237

FCC Test Firm Registration Number: 647754

The used test equipment is in accordance with CISPR 16-1 series standards for measurement of radio interference.

1.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment of Laboratory

No.	Equipment	Model	Serial no.	Last Cal. date	Cal. due date
1.	EMI test receiver	ESR3	102331	2022.10.31	2023.10.30
2.	Bilog Antenna	CBL6112D	49033	2021.03.15	2024.03.14
3.	EMI test receiver	ESR 7	101929	2022.10.31	2023.10.30
4.	LISN	ENV216	102250	2022.10.31	2023.10.30

1.3 Measurement Uncertainty

Table 2: Measurement Uncertainty of Laboratory

Test Item	Expanded Measurement Uncertainty (k=2)
Conducted Emission (150k-30MHz)	3.30dB
Radiated Emission (30-1000MHz)	4.39dB

2 General Product Information

2.1 Product Function and Intended Use

The EUT(equipment under test) is a LED spotlight for Lighting and similar use. For the further information, refer to the user's manual.

2.2 Ratings and System Details

Rated input : DC 5 V, 2.5 W
Battery input : 2.4 V DC (2 × AA HR6 1.2 V DC) 0.7 W

Refer to the user's manual for further information.

2.3 Independent Operation Modes

The basic operation modes are: "On" or "Off".

Refer to the user's manual for further information.

2.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram for more information.

2.5 Submitted Documents

Circuit diagram, PCB layout, user's manual etc.

3 Test Set-up and Operation Modes

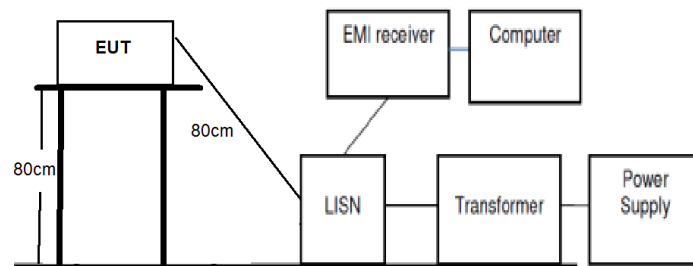
3.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test conditions were adapted accordingly in reference to the instructions for use.

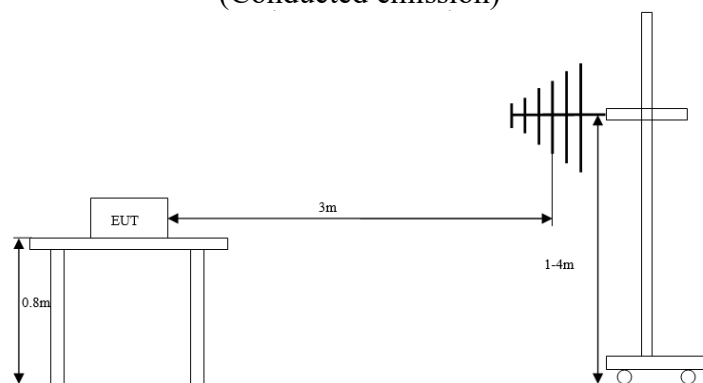
Refer to the related paragraph of this report.

3.2 Equipment and cable arrangement

Block diagram for both conducted emission and radiated emission tests is as follows:



(Conducted emission)



(Radiated emission)

Also refer to photographs on clause 6 for test setups for both conducted emission test and radiated emission test.

Prüfbericht - Nr.: CN23MF15 001
Test Report No.:

Seite 8 von 21
Page 8 of 21

3.3 Test Operation and Test Software

No special test software was used during the tests.

3.4 Special Accessories and Auxiliary Equipment

Both tests were performed under DC 5V 1A output of the IKEA charger ICPSW5-17NA-1.
The Conducted Emission test was performed under DC 5V output of the laptop Thinkpad T14 Gen 1.

3.5 Countermeasures to achieve EMC Compliance

The tested sample contained noise suppression components to achieve EMC compliance. No other special measure is employed to achieve the requirement.

4 Conformity Decision Rule

For all EMI tests included in this report, as measurement uncertainties are less than the values U_{CISPR} given in CISPR 16-4-2, compliance with the limits is determined by comparing measurement results directly with corresponding limits without taking into consideration of measurement uncertainties.

5 Test Results EMISSION

5.1 Emission in the Frequency Range up to 30 MHz

5.1.1 Mains Terminal Continuous Disturbance Voltage

Result:	Pass
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- Date of testing : 2023.08.25
- Kind of test site : Shielding Room
- Port : Mains
- Basic Standard : ANSI C63.4:2014 and CISPR 16-1 series standards
- Frequency Range : 0.15 – 30MHz
- Limit : FCC 47 CFR Part 15 Subpart B:2021& ICES-005:2018, Class B
 Quasi-peak limit:
 0.15 - 0.5 MHz, 66 to 56 dBμV (decrease with the logarithm of frequency); 0.5 - 5 MHz, 56 dBμV; 5 - 30 MHz, 60 dBμV
 Average limit:
 0.15 - 0.5 MHz, 56 to 46 dBμV (decrease with the logarithm of frequency); 0.5 – 5 MHz, 46 dBμV; 5 – 30 MHz, 50 dBμV
- Ambient Condition : Temperature: 21 °C; Relative Humidity: 63%

Test Setup

- Input Voltage : AC 120V, 60Hz
- Operational mode : Charging by adapter
 Charging by laptop
- Test Setup : ANSI C63.4:2014 and CISPR 16-1 series standards

The measurement setup was made according to ANSI C63.4:2014 in a shielded room.

The measurement equipment like test receivers, quasi-peak detector and artificial mains network (AMN) are in compliance with ANSI C63.4:2014 and CISPR 16-1 series standards.

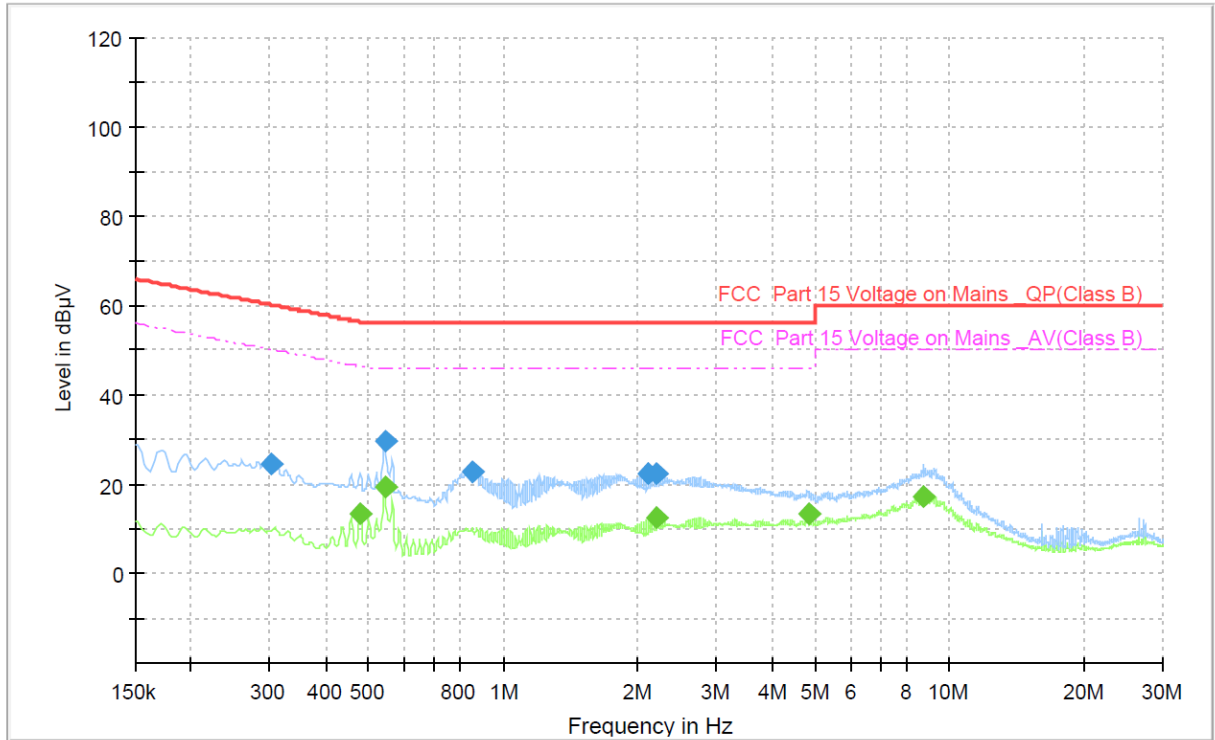
The tested object was set-up on a wooden table. The EUT was set 0.8m away from the AMN.

The disturbance voltage test was performed on the neutral line and phase line of the power supply of the EUT respectively.

In the figures, the symbol “◆” in blue color means Quasi-Peak Value and the symbol “◆” in green color means Average Value which was measured in final measurement.

The measurement result is calculated based on the following formula by the test software:
 Emission Level = Reading level + Correction (LISN factor + cable loss)

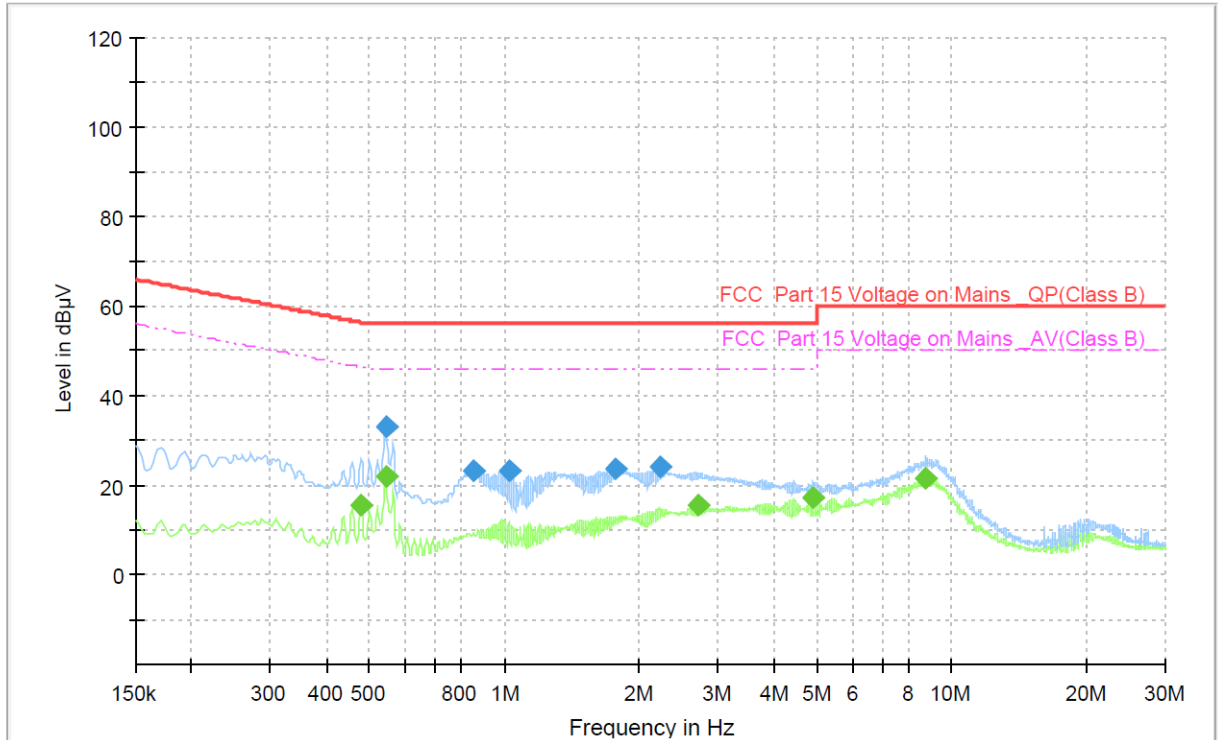
Figure 1: Spectral Diagrams, Conducted Emission, 150kHz - 30MHz, L with adapter



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.303000	24.48	---	60.16	35.68	1000.0	9.000	L1	ON	9.6
0.478500	---	13.25	46.37	33.11	1000.0	9.000	L1	ON	9.6
0.541500	---	19.28	46.00	26.72	1000.0	9.000	L1	ON	9.6
0.541500	29.69	---	56.00	26.31	1000.0	9.000	L1	ON	9.6
0.847500	23.00	---	56.00	33.00	1000.0	9.000	L1	ON	9.7
2.105250	22.55	---	56.00	33.45	1000.0	9.000	L1	ON	9.7
2.195250	22.46	---	56.00	33.54	1000.0	9.000	L1	ON	9.7
2.215500	---	12.34	46.00	33.66	1000.0	9.000	L1	ON	9.7
4.854750	---	13.39	46.00	32.61	1000.0	9.000	L1	ON	9.8
8.749500	---	17.45	50.00	32.55	1000.0	9.000	L1	ON	9.9

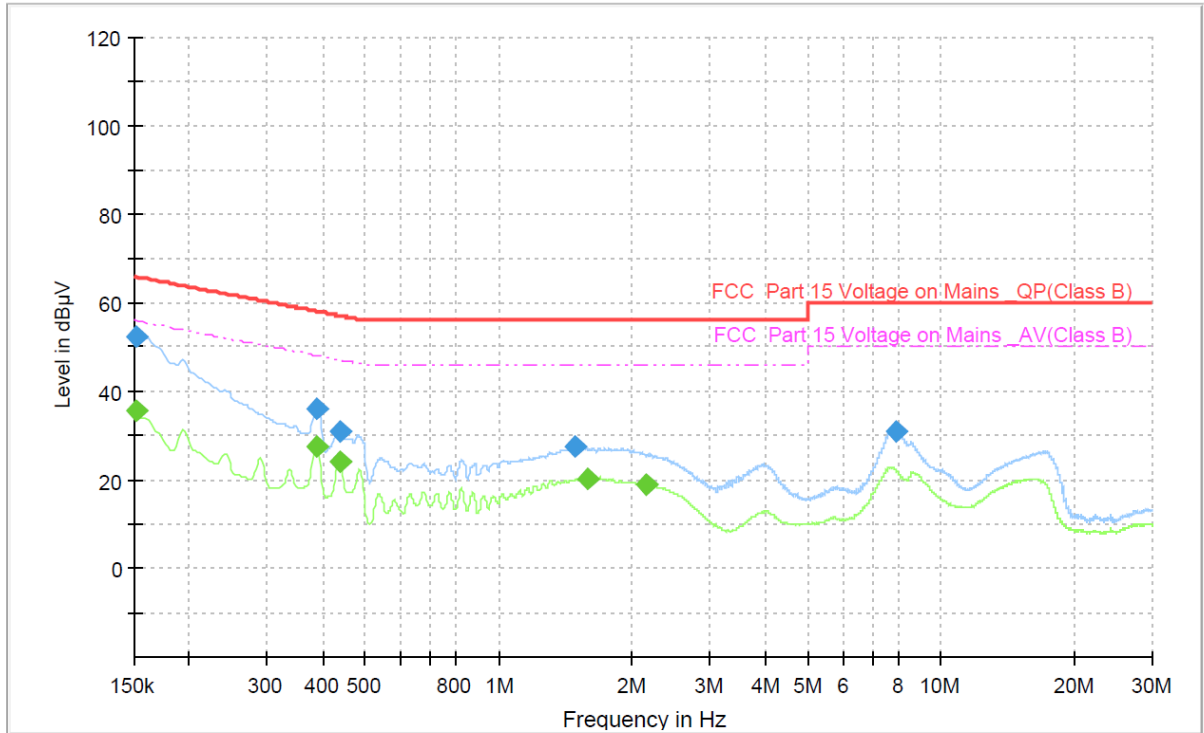
Figure 2: Spectral Diagrams, Conducted Emission, 150kHz - 30MHz, N with adapter



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.478500	---	15.49	46.37	30.87	1000.0	9.000	N	ON	9.6
0.541500	---	22.08	46.00	23.92	1000.0	9.000	N	ON	9.6
0.541500	33.01	---	56.00	22.99	1000.0	9.000	N	ON	9.6
0.854250	23.32	---	56.00	32.68	1000.0	9.000	N	ON	9.7
1.020750	23.04	---	56.00	32.96	1000.0	9.000	N	ON	9.7
1.774500	23.68	---	56.00	32.32	1000.0	9.000	N	ON	9.7
2.217750	24.06	---	56.00	31.94	1000.0	9.000	N	ON	9.7
2.717250	---	15.57	46.00	30.43	1000.0	9.000	N	ON	9.7
4.895250	---	17.35	46.00	28.65	1000.0	9.000	N	ON	9.8
8.724750	---	21.57	50.00	28.43	1000.0	9.000	N	ON	9.9

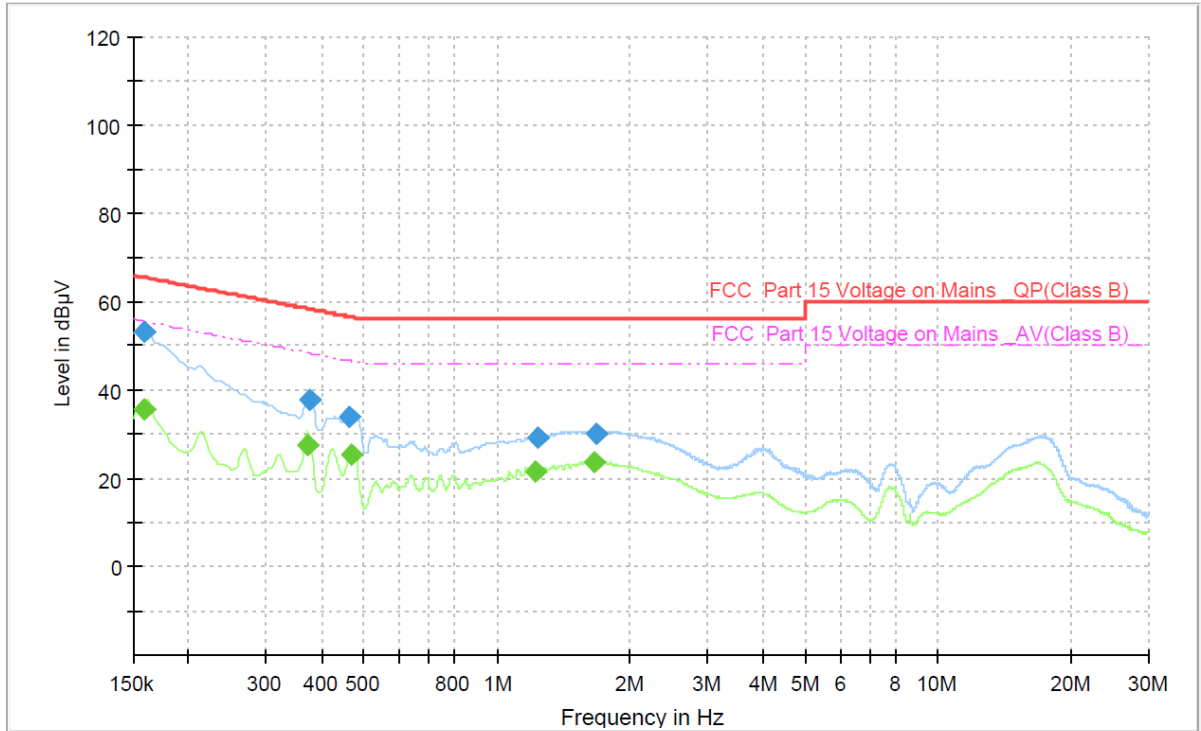
Figure 3: Spectral Diagrams, Conducted Emission, 150kHz - 30MHz, L with laptop



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.152250	---	35.70	55.88	20.17	1000.0	9.000	L1	ON	9.6
0.152250	52.49	---	65.88	13.39	1000.0	9.000	L1	ON	9.6
0.386250	---	27.38	48.14	20.76	1000.0	9.000	L1	ON	9.6
0.388500	36.06	---	58.10	22.04	1000.0	9.000	L1	ON	9.6
0.435750	31.14	---	57.14	26.01	1000.0	9.000	L1	ON	9.6
0.435750	---	24.15	47.14	22.99	1000.0	9.000	L1	ON	9.6
1.493250	27.41	---	56.00	28.59	1000.0	9.000	L1	ON	9.7
1.594500	---	20.33	46.00	25.67	1000.0	9.000	L1	ON	9.7
2.148000	---	18.86	46.00	27.14	1000.0	9.000	L1	ON	9.7
7.874250	31.10	---	60.00	28.90	1000.0	9.000	L1	ON	9.9

Figure 4: Spectral Diagrams, Conducted Emission, 150kHz - 30MHz, N with laptop



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.159000	---	35.79	55.52	19.73	1000.0	9.000	N	ON	9.6
0.159000	53.11	---	65.52	12.40	1000.0	9.000	N	ON	9.6
0.372750	---	27.36	48.44	21.08	1000.0	9.000	N	ON	9.6
0.377250	37.72	---	58.34	20.62	1000.0	9.000	N	ON	9.6
0.462750	34.04	---	56.64	22.60	1000.0	9.000	N	ON	9.6
0.469500	---	25.24	46.52	21.28	1000.0	9.000	N	ON	9.6
1.223250	---	21.62	46.00	24.38	1000.0	9.000	N	ON	9.7
1.239000	29.10	---	56.00	26.90	1000.0	9.000	N	ON	9.7
1.666500	---	23.47	46.00	22.53	1000.0	9.000	N	ON	9.7
1.668750	29.98	---	56.00	26.02	1000.0	9.000	N	ON	9.7

5.2 Emission in the Frequency Range above 30 MHz

5.2.1 Radiated disturbance

Result:	Pass
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- Date of testing : 2023.08.26
- Test procedure : ANSI C63.4:2014 and CISPR 16-1 series standards
- Frequency range : 30 – 1000MHz
- Limits : FCC 47 CFR Part 15 Subpart B:2021
 Quasi-peak limits (3m test distance):
 30-88MHz, 40dBµV/m; 88-216MHz, 43.5dBµV/m;
 216-960MHz, 46dBµV/m; Above 960MHz, 54dBµV/m.
 ICES-005:2018, Class B
 Quasi-peak limits (3m test distance):
 30-88MHz, 40dBµV/m; 88-216MHz, 43.5dBµV/m;
 216-1000MHz, 46dBµV/m
- Kind of test site : Semi-anechoic chamber
- Operation modes : Charging by adapter
 Lighting on by battery powered
- Input voltage : AC 120 V; 60 Hz by adapter
 DC 2.4V by battery
- Ambient Condition : Temperature: 21 °C ; Relative Humidity: 63 %

The radiated disturbance test was carried out in a semi-anechoic chamber. The test distance from the receiving antenna to the EUT is 3m. The normalized site attenuation of the semi-anechoic chamber is regularly calibrated to ensure the radiated disturbance test results are valid. During the test, the EUT was placed on a wooden table, which is 0.8m high. The wooden table was rotated 360° around and the antenna was varied from 1m to 4m to find the maximum disturbance. The test was performed with the antenna both in its horizontal and vertical polarizations.

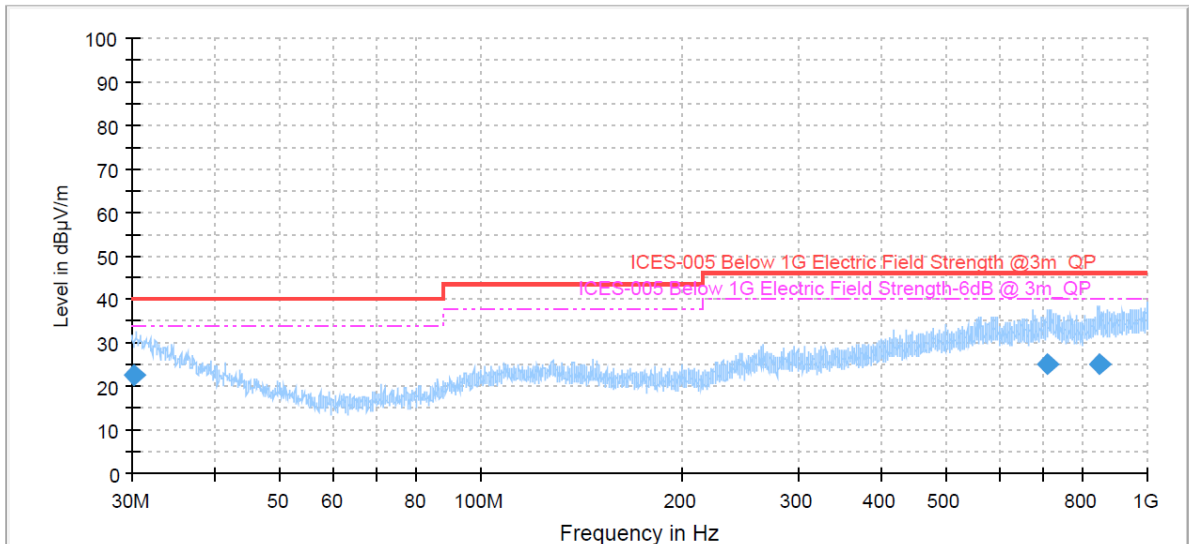
According to the clause 15.33 “Frequency range of radiated measurements” of FCC 47 CFR Part 15 Subpart B:2021 and clause 3.2.2 “Radiated Emissions Limits” of ICES-005:2018 Class B, The highest frequency in the EUT is below 108 MHz, therefore the EUT’s upper frequency of measurement range is 1000MHz.

The following figures and tables were those measured by an automatic measurement system. A preview test was firstly performed with peak detector. The final test was performed with quasi-peak at those critical frequencies during the preview test. In the following figures, “◆” mean final measurement results with quasi-peak detector.

Before measurement, a survey was made to determine in which state the maximum disturbance was obtained. And the measurement was made in the state the maximum disturbance was obtained.

The measurement result is calculated based on the following formula by the test software:
 Emission Level = Reading level + Correction (Antenna factor + Cable loss)

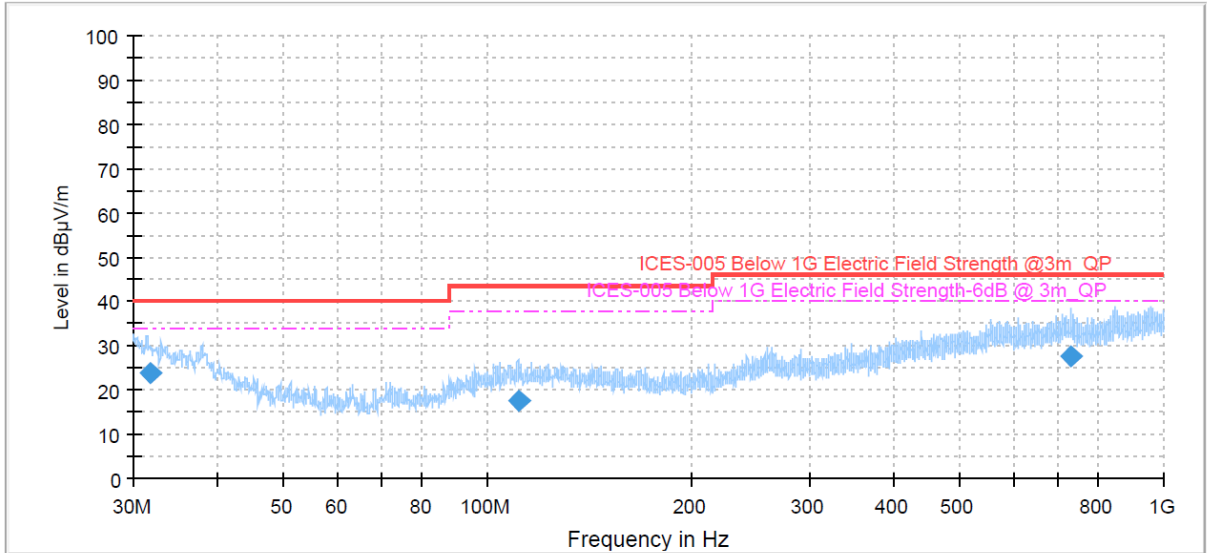
Figure 5: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Horizontal polarization by adapter



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.305000	22.59	40.00	17.41	1000.0	120.000	150.0	H	357.0	25.8
709.315556	24.91	46.00	21.09	1000.0	120.000	150.0	H	217.0	27.8
845.169444	25.28	46.00	20.72	1000.0	120.000	124.0	H	191.0	29.4

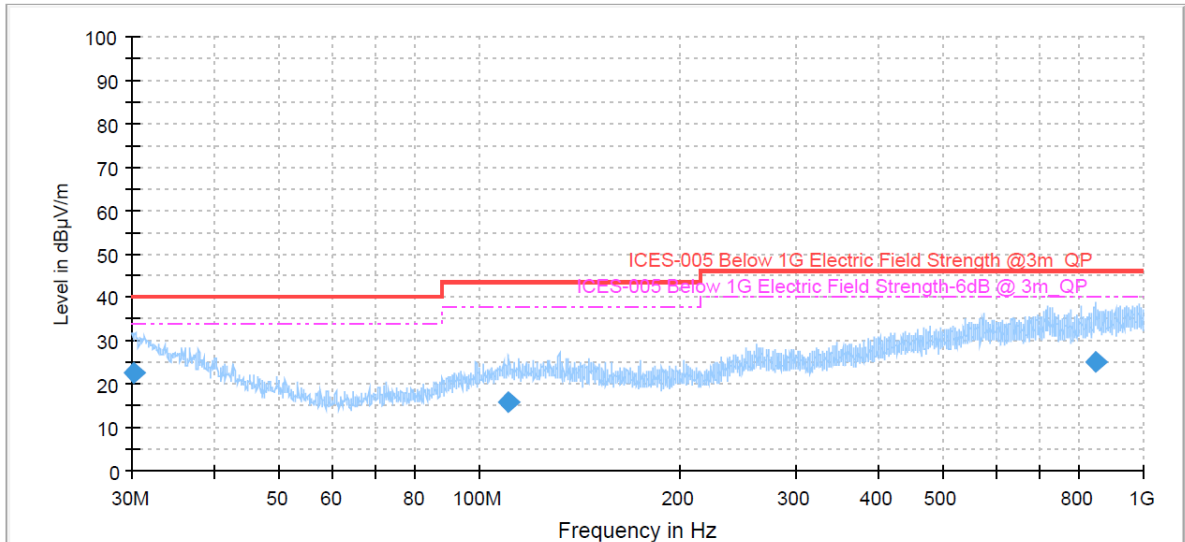
Figure 6: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Vertical polarization by adapter



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.755000	23.89	40.00	16.11	1000.0	120.000	143.0	V	270.0	24.7
111.068889	17.43	43.50	26.07	1000.0	120.000	134.0	V	95.0	19.0
728.460000	27.67	46.00	18.33	1000.0	120.000	114.0	V	284.0	28.0

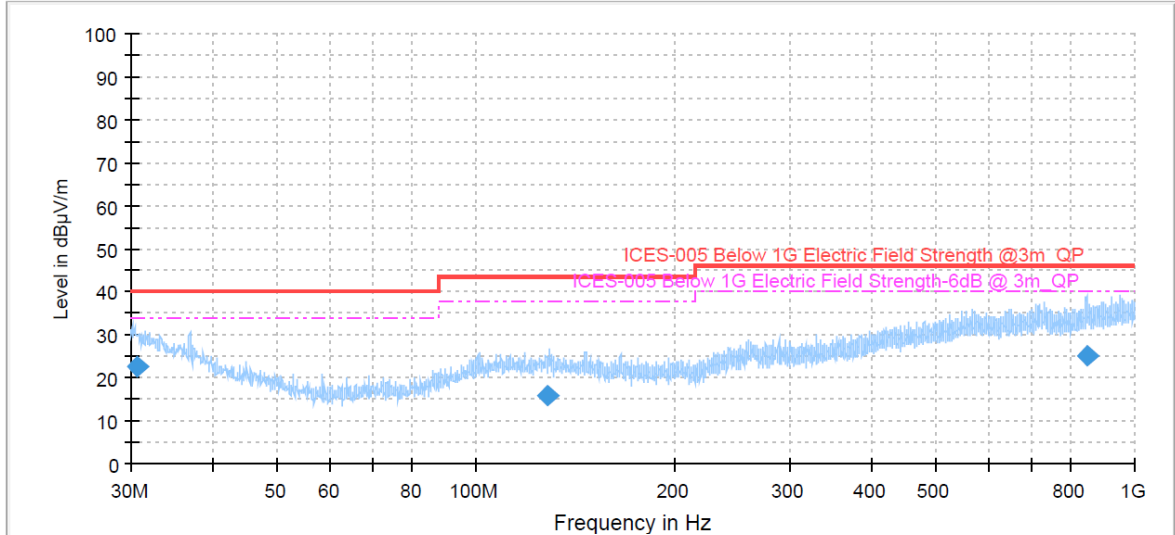
Figure 7: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Horizontal polarization by battery



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.320000	22.50	40.00	17.50	1000.0	120.000	134.0	H	313.0	25.8
110.695000	15.88	43.50	27.62	1000.0	120.000	124.0	H	131.0	18.9
845.505000	25.19	46.00	20.81	1000.0	120.000	100.0	H	134.0	29.3

Figure 8: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Vertical polarization by battery



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.677222	22.45	40.00	17.55	1000.0	120.000	127.0	V	24.0	25.5
128.391667	15.96	43.50	27.54	1000.0	120.000	123.0	V	43.0	19.0
846.568889	25.24	46.00	20.76	1000.0	120.000	132.0	V	42.0	29.3

Prüfbericht - Nr.: CN23MFI5 001
Test Report No.:

Seite 20 von 21
Page 20 of 21

6 Photographs of the Test Set-Up

Refer to the test setup file.

6 List of Tables

Table 1: List of Test and Measurement Equipment of Laboratory	5
Table 2: Measurement Uncertainty of Laboratory	5

7 List of Figures

Figure 1: Spectral Diagrams, Conducted Emission, 150kHz - 30MHz, L with adapter	11
Figure 2: Spectral Diagrams, Conducted Emission, 150kHz - 30MHz, N with adapter.....	12
Figure 3: Spectral Diagrams, Conducted Emission, 150kHz - 30MHz, L with laptop.....	13
Figure 4: Spectral Diagrams, Conducted Emission, 150kHz - 30MHz, N with laptop	14
Figure 5: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Horizontal polarization by adapter	16
Figure 6: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Vertical polarization by adapter	17
Figure 7: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Horizontal polarization by battery	18
Figure 8: Spectral Diagrams, Radiated Emission, 30MHz-1000MHz, Vertical polarization by battery	19

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