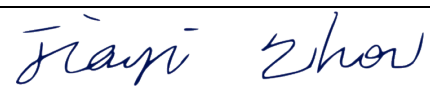


Prüfbericht-Nr.: Test report no.:	CN24DX3G 001	Auftrags-Nr.: Order no.:	326041368	Seite 1 von 24 Page 1 of 24
Kunden-Referenz-Nr.: Client reference no.:	1288983	Auftragsdatum: Order date:	2024-07-24	
Auftraggeber: Client:	IKEA of Sweden AB Box 702, SE-343 81 Älmhult, Sweden			
Prüfgegenstand: Test item:	LED light chain			
Bezeichnung / Typ-Nr.: Identification / Type no.:	J2507			
Auftrags-Inhalt: Order content:	TÜV Rheinland EMC service			
Prüfgrundlage: Test specification:	FCC 47 CFR Part 15, Subpart B:2023 Class B ICES-005:2018			
Wareneingangsdatum: Date of sample receipt:	2024-09-26	Refer to the EUT photos file		
Prüfmuster-Nr.: Test sample no:	A003802473-006			
Prüfzeitraum: Testing period:	Refer to test report			
Ort der Prüfung: Place of testing:	Refer to clause 1.1			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	genehmigt von: authorized by:			
Datum: Date:	2025-01-09		Ausstellungsdatum: Issue date: 2025-01-09	
Stellung / Position:	Project engineer		Stellung / Position: Authorizer	
Sonstiges / Other:	FCC ID: FHO-J2507 Test Firm Name: TUV Rheinland (Shanghai) Co., Ltd. Designation Number: CN1396 Test Firm Registration Number: 930979			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
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. This test report only relates to the above mentioned 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.				

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Test report no.:

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Anmerkungen
Remarks

1	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. <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. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	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. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	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. <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>

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Revision history of test report:

Report number	Issue date	Contents and reason for change if appropriate
CN24DX3G 001	2025-01-09	Initial release.

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1 Test Sites

1.1 Test Facilities

Laboratory: TÜV Rheinland (Shanghai) Co., Ltd.

Address: Workshop14, North Half of Workshop 10 and Workshop 16, Pingqian (Taicang)
Modern Industrial Park, No.525, Yuewang Lingang South Road, Shaxi, Taicang, Jiangsu,
China

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

Refer to Clause 7 for test and measurement instruments.

2 General Product Information

2.1 Product Function and Intended Use

The EUT (equipment under test) is an ordinary LED light chain for lighting and similar use. For the further information, refer to the user's manual.

2.2 Ratings and System Details

Rated input : AC 120 V, 60 Hz, 0.056 A

Rated power : Max 4.0 W

Protection class : II

The equipment is a Class III LED light chain, it should be powered by approved SELV LED driver.

LED driver information: ICPSW24-3.6-IL-1, Input: AC 100-240 V, 50/60 Hz, Max. 0.05 A, 2,7 W; Output: DC 24.0 V, Max. 0.15 A, 3.6 W

2.3 Independent Operation Modes

The basic operation modes are: "lighting on" "flashing" and "off".

2.4 Description of interconnecting cables

No.	Interface and name	Shielded or not	Specified length (m)
1	AC power line of LED driver	Unshielded	0.95
2	DC power line of LED driver	Unshielded	5.1

2.5 Noise Generating and Noise Suppressing Parts

Refer to the circuit diagram for further information.

2.6 Highest frequency generated or used in the device or on which the device operates or tunes

The highest frequency used in the EUT is 24 MHz.

2.7 Submitted Documents

Circuit diagram, user's manual and rating label.

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 emission level. The test conditions were adapted accordingly in reference to the instructions for use.

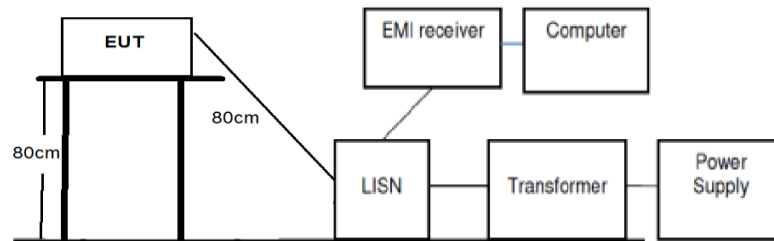
Refer to the related paragraph of this report.

The sequence of testing:

1. Radiated emission tests were performed on 2024-12-31.
2. Conducted emission tests were performed on 2025-01-02.

3.2 Equipment and cable arrangement

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



(Conducted emission)



(Radiated emission 30-1000 MHz)

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

3.3 Test Software

No special test software was used during the tests.

3.4 Special Accessories and Auxiliary Equipment

None.

3.5 Countermeasures 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 Conducted emission

Result:		Passed
Date of testing	: 2025-01-02	
Test procedure	: FCC 47 CFR Part 15, Subpart B:2023, ICES-005:2018, ANSI C63.4-2014 and CISPR 16-2-1	
Frequency range	: 0.15 – 30 MHz	
Limits	: Quasi-peak limit: 0.15 – 0.5 MHz, 66 to 56 dB μ V (decrease with the logarithm of frequency); 0.5 – 5 MHz, 56 dB μ V; 5 – 30 MHz, 60 dB μ V Average limit: 0.15 – 0.5 MHz, 56 to 46 dB μ V (decrease with the logarithm of frequency); 0.5 – 5 MHz, 46 dB μ V; 5 – 30 MHz, 50 dB μ V	
Bandwidth of EMI receiver for final measurement	: 9 kHz	
Measurement time for final measurement	: 1 s	
Kind of test site	: Shielded room	
Input voltage	: AC 120 V, 60 Hz	
Operational mode	: Mode 1: lighting on Mode 2: flashing	
Ambient condition	: Temperature: 24.1 °C; Relative humidity: 47.2 %	
Expanded measurement uncertainty ($k=2$)	: 2.33 dB The minimum margin to the limit is 6.61 dB at 0.159000 MHz. The margin is higher than expanded measurement uncertainty.	

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 CISPR 16-1 series standards.

The tested object was set-up on a wooden support. The EUT was set 0.8 m away from the AMN. The cord longer than necessary to be connected to the AMN was folded forth and back parallel so as to form a bundle with a length between 0.3 m and 0.4 m.

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

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The following figures and tables were those measured by an automatic measuring system. Both quasi-peak and average measurements were performed. In the following spectral diagram, “◆” means Quasi-Peak Value and “◆” means Average Value results.

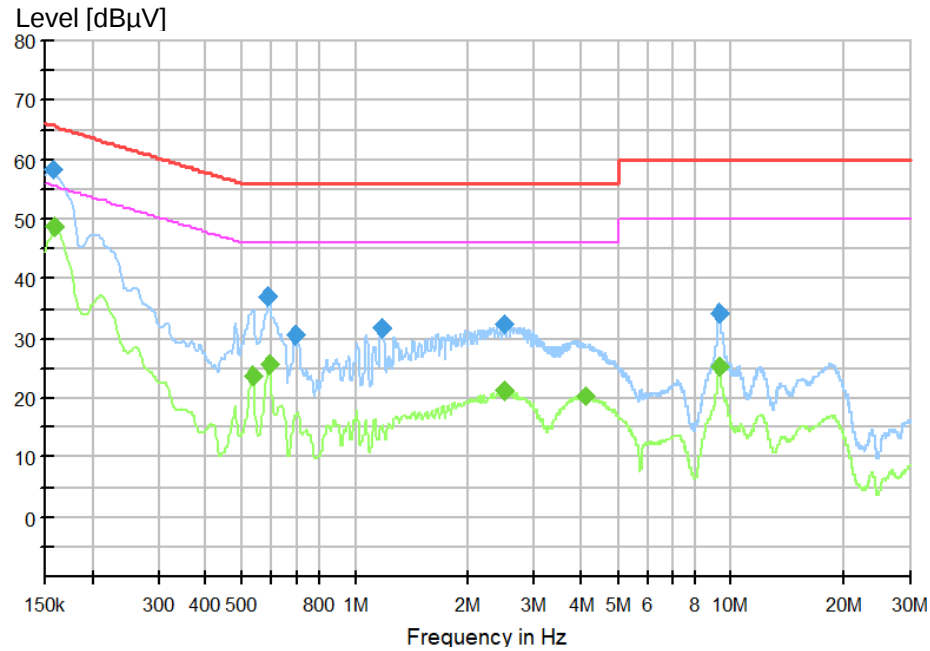
Notes on following tables of conducted emission results and conversions:

Level (dB μ V): final measurement results by using quasi-peak detector and average detector

Transd (dB): transducer factor including cable loss, insertion loss of artificial mains network and gain of pre-amplifier (if used)

Margin: Limit (dB μ V) - Level (dB μ V)

Figure 1: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L on mode 1

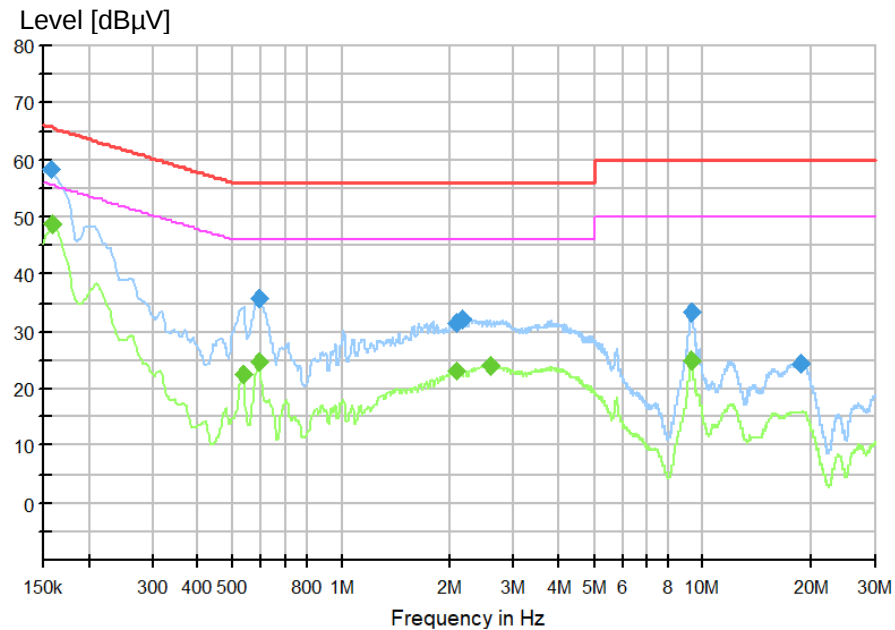


Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.156750	58.41	65.63	7.22	1000.0	9.000	L1
0.586500	36.91	56.00	19.09	1000.0	9.000	L1
0.690000	30.46	56.00	25.54	1000.0	9.000	L1
1.171500	31.83	56.00	24.17	1000.0	9.000	L1
2.501250	32.26	56.00	23.74	1000.0	9.000	L1
9.330000	34.31	60.00	25.69	1000.0	9.000	L1

Final average measurement result:

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.159000	48.72	55.52	6.80	1000.0	9.000	L1
0.534750	23.75	46.00	22.25	1000.0	9.000	L1
0.588750	25.55	46.00	20.45	1000.0	9.000	L1
2.501250	21.22	46.00	24.78	1000.0	9.000	L1
4.107750	20.38	46.00	25.62	1000.0	9.000	L1
9.332250	25.17	50.00	24.83	1000.0	9.000	L1

Figure 2: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N on mode 1


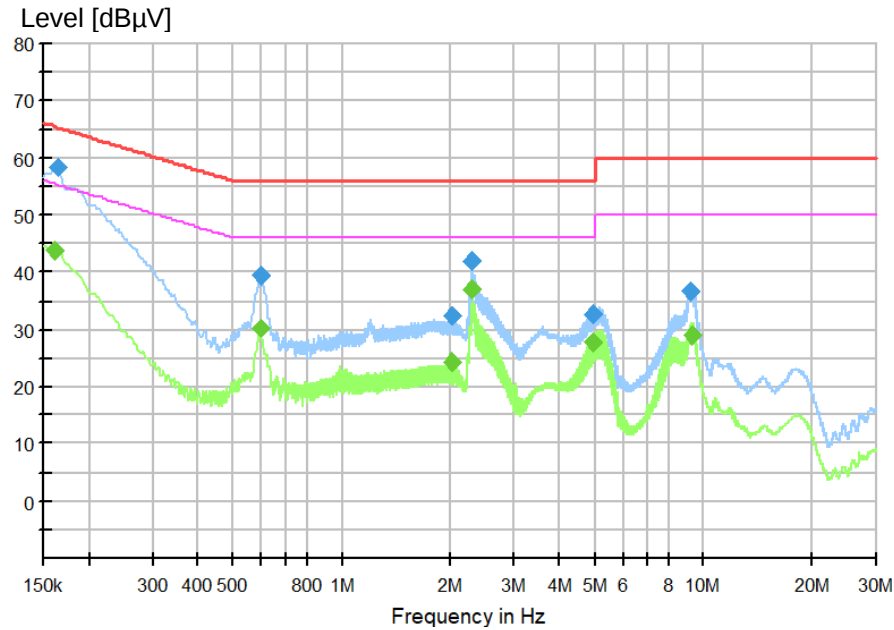
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.156750	58.46	65.63	7.18	1000.0	9.000	N
0.591000	35.75	56.00	20.25	1000.0	9.000	N
2.091750	31.54	56.00	24.46	1000.0	9.000	N
2.145750	32.04	56.00	23.96	1000.0	9.000	N
9.339000	33.43	60.00	26.57	1000.0	9.000	N
18.802500	24.22	60.00	35.78	1000.0	9.000	N

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.159000	48.91	55.52	6.61	1000.0	9.000	N
0.534750	22.39	46.00	23.62	1000.0	9.000	N
0.588750	24.73	46.00	21.27	1000.0	9.000	N
2.091750	23.03	46.00	22.97	1000.0	9.000	N
2.568750	23.97	46.00	22.03	1000.0	9.000	N
9.300750	24.84	50.00	25.16	1000.0	9.000	N

Figure 3: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L on mode 2



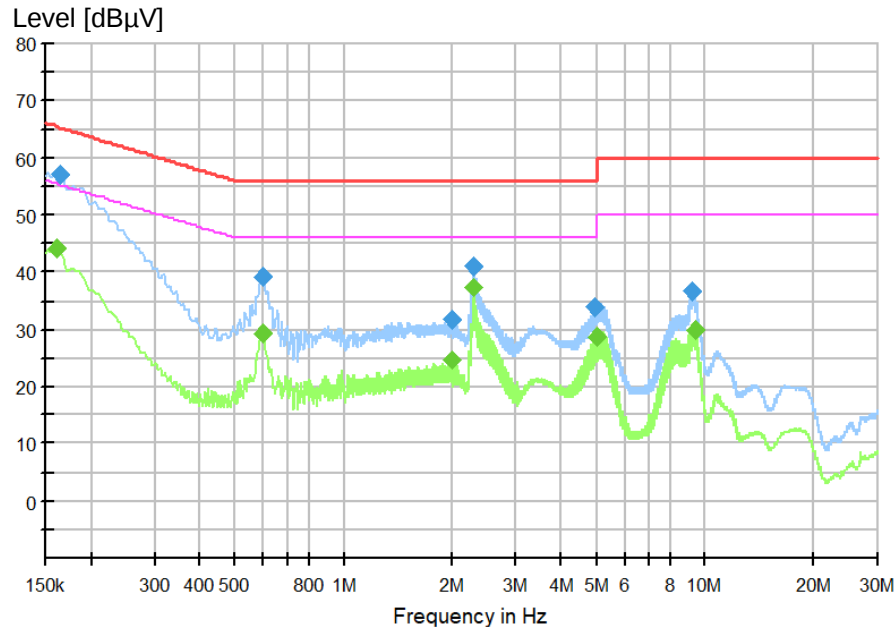
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.163500	58.27	65.28	7.02	1000.0	9.000	L1
0.597750	39.36	56.00	16.64	1000.0	9.000	L1
2.024250	32.25	56.00	23.75	1000.0	9.000	L1
2.294250	41.86	56.00	14.14	1000.0	9.000	L1
4.983000	32.61	56.00	23.39	1000.0	9.000	L1
9.240000	36.83	60.00	23.17	1000.0	9.000	L1

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.161250	43.71	55.40	11.69	1000.0	9.000	L1
0.595500	30.14	46.00	15.86	1000.0	9.000	L1
2.024250	24.24	46.00	21.76	1000.0	9.000	L1
2.294250	36.98	46.00	9.02	1000.0	9.000	L1
4.983000	27.85	46.00	18.15	1000.0	9.000	L1
9.361500	28.96	50.00	21.04	1000.0	9.000	L1

Figure 4: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N on mode 2



Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.163500	57.03	65.28	8.25	1000.0	9.000	N
0.595500	39.04	56.00	16.96	1000.0	9.000	N
1.990500	31.75	56.00	24.25	1000.0	9.000	N
2.283000	41.04	56.00	14.96	1000.0	9.000	N
4.978500	34.01	56.00	21.99	1000.0	9.000	N
9.233250	36.72	60.00	23.28	1000.0	9.000	N

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.161250	44.09	55.40	11.31	1000.0	9.000	N
0.595500	29.21	46.00	16.79	1000.0	9.000	N
2.001750	24.74	46.00	21.26	1000.0	9.000	N
2.292000	37.20	46.00	8.80	1000.0	9.000	N
4.998750	28.54	46.00	17.46	1000.0	9.000	N
9.384000	29.78	50.00	20.22	1000.0	9.000	N

5.2 Emission in the Frequency Range above 30 MHz

5.2.1 Radiated emission (30-1000 MHz)

Result:	Passed
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Date of testing	: 2024-12-31
Test procedure	: FCC 47 CFR Part 15, Subpart B:2023, ICES-005:2018, ANSI C63.4-2014 and CISPR 16-2-3
Product classification	: Class B
Frequency range	: 30 – 1000 MHz (see Note 1)
Limits	: Quasi-peak limits (3 m distance): 30 – 88 MHz, 40 dB μ V/m; 88 – 216 MHz, 43.5 dB μ V/m; 216 – 1000 MHz, 46 dB μ V/m (see Note 2)
Bandwidth of EMI receiver for final measurement	: 120 kHz
Measurement time for final measurement	: 1 s
Kind of test site	: Semi-anechoic chamber
Input voltage	: AC 120 V, 60 Hz
Operational mode	: Mode 1: lighting on Mode 2: flashing
Ambient condition	: Temperature: 24.6 °C; Relative humidity: 45.5 %
Expanded measurement uncertainty (k=2)	: 5.40 dB The minimum margin to the limit is 8.1 dB at 31.091250 MHz. The margin is lower than expanded measurement uncertainty.

The radiated disturbance test was carried out in a semi-anechoic chamber. The test distance from the receiving antenna to the EUT is 3 m. 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 an 80 cm wooden support above the reference ground plane. The wooden support was rotated 360° around and the height of the antenna was varied from 1 m to 4 m to find the maximum disturbance. The test was performed with the antenna both in its horizontal and vertical polarizations.

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 spectral diagram, “×” means quasi-peak test results.

Notes on following tables of radiated emission results and conversions:

QuasiPeak (dB μ V/m): final measurement results by using quasi-peak detector
 Corr. (dB): correction factor including: antenna factor, cable loss, and gain of pre-amplifier (if used)
 Margin: Limit (dB μ V/m) - QuasiPeak (dB μ V/m)

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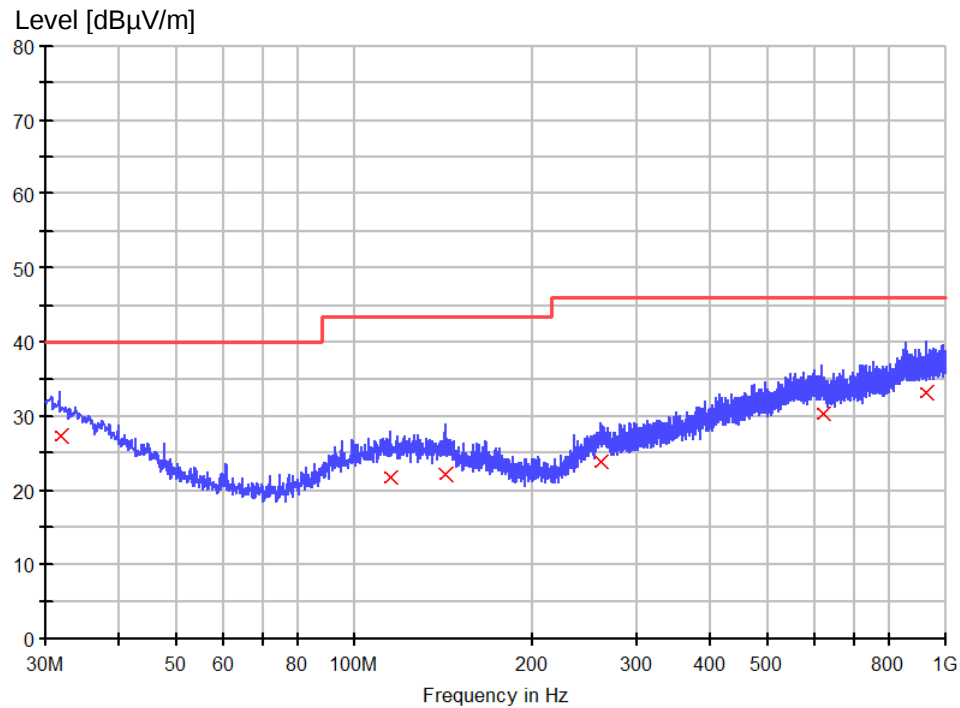
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Note 1: The highest frequency in the EUT is less than 108 MHz. According to FCC Part 15 subpart B §15.33 (b) (1), the upper frequency for radiated emission measurement is 1000 MHz.

Note 2: The class B limits of ICES-005:2018 is stricter than those FCC 47 CFR Part 15, Subpart B:2023 for 3 m test distance. Therefore, the former limits are used in following figures and tables.

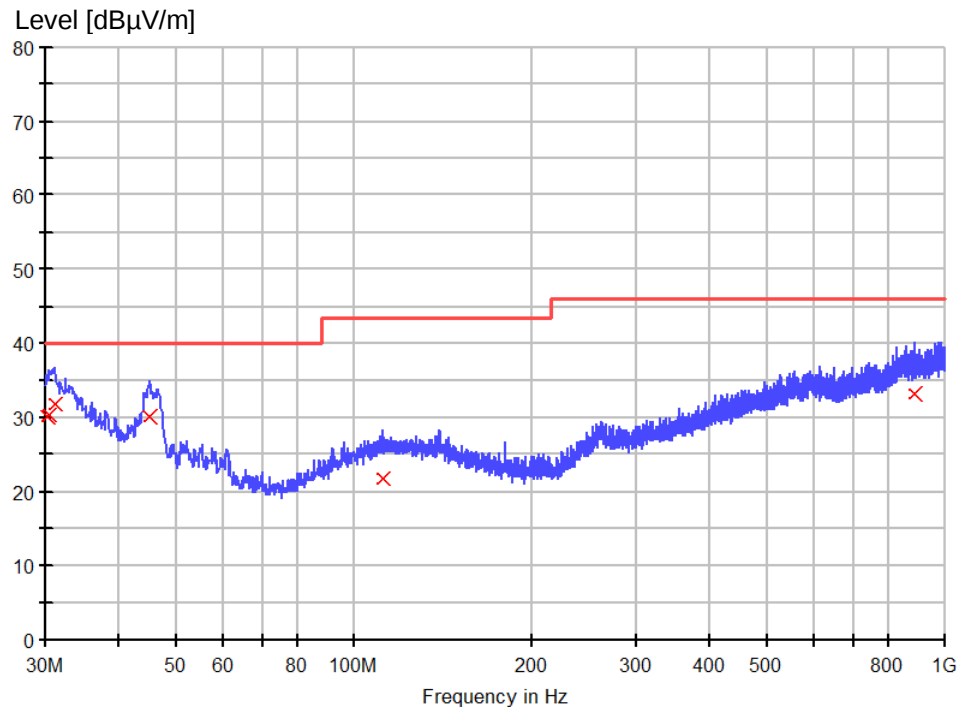
Figure 5: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 1



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
31.818750	27.3	120.000	277	H	121	23.9	12.7	40.0
114.875000	21.9	120.000	114	H	-26	18.8	21.6	43.5
141.913750	22.3	120.000	191	H	-172	18.1	21.3	43.5
260.496250	23.9	120.000	269	H	128	20.8	22.2	46.0
619.881250	30.5	120.000	400	H	126	26.9	15.5	46.0
930.281250	33.3	120.000	391	H	103	28.9	12.7	46.0

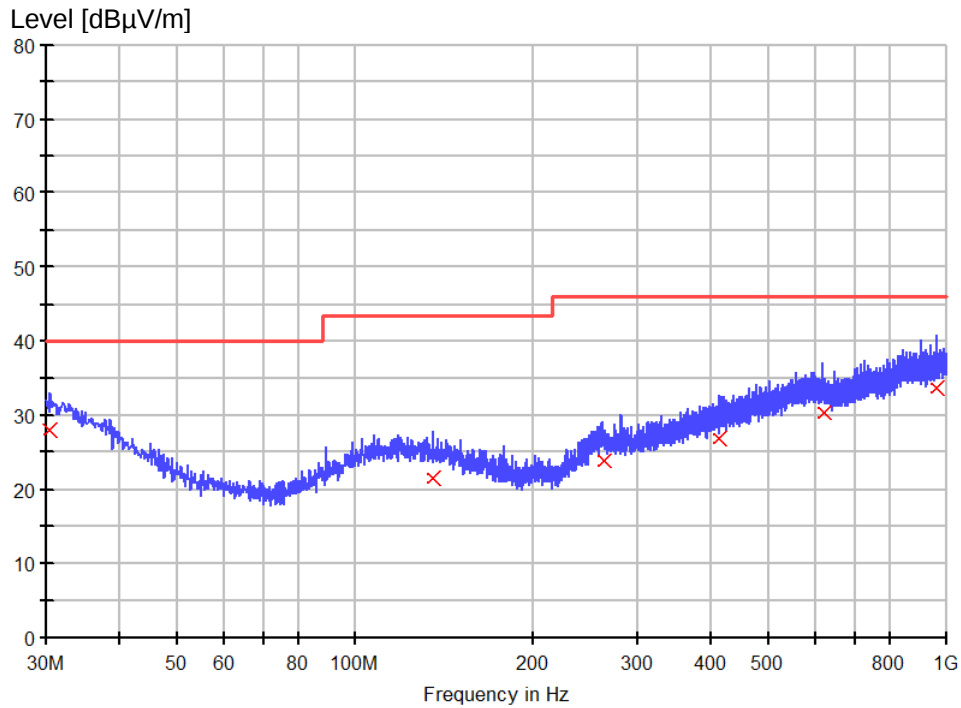
Figure 6: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 1



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
30.242500	30.3	120.000	159	V	66	24.7	9.7	40.0
30.485000	30.5	120.000	247	V	59	24.6	9.5	40.0
31.091250	31.9	120.000	391	V	-160	24.3	8.1	40.0
44.913750	30.3	120.000	256	V	-53	17.2	9.7	40.0
111.358750	21.8	120.000	325	V	52	18.7	21.7	43.5
890.147500	33.3	120.000	156	V	27	28.7	12.7	46.0

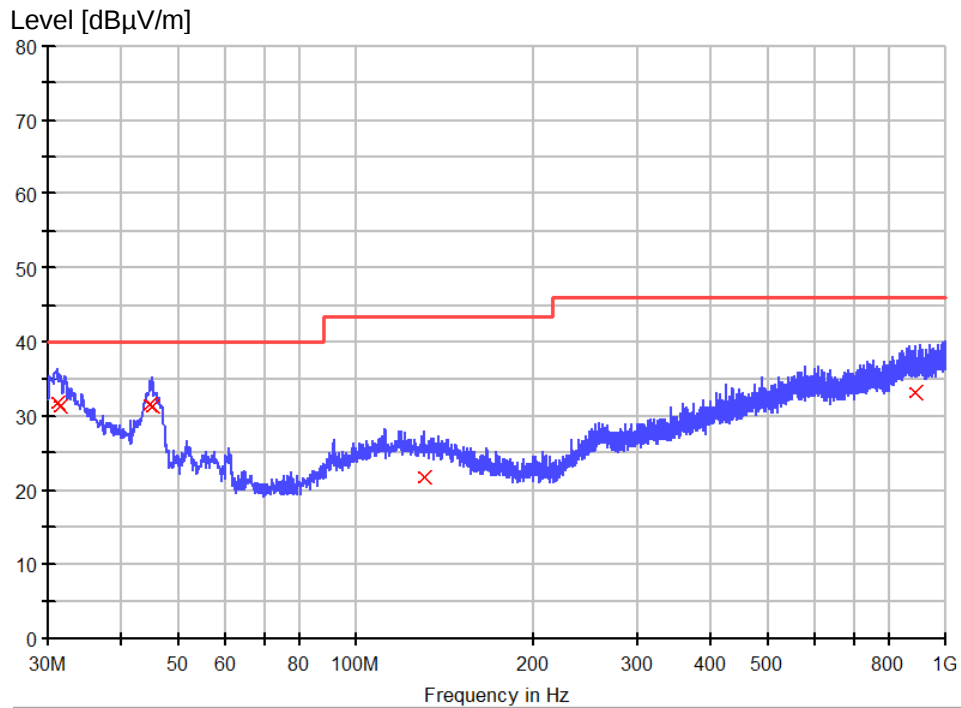
Figure 7: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 2



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
30.485000	28.0	120.000	384	H	-27	24.6	12.0	40.0
135.002500	21.5	120.000	172	H	71	18.4	22.0	43.5
263.406250	23.9	120.000	297	H	-96	20.8	22.1	46.0
411.816250	27.0	120.000	345	H	168	23.7	19.0	46.0
619.275000	30.4	120.000	281	H	36	26.9	15.6	46.0
960.836250	33.7	120.000	276	H	-133	29.5	12.3	46.0

Figure 8: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 2



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
31.091250	31.7	120.000	259	V	3	24.3	8.3	40.0
31.455000	31.4	120.000	212	V	-21	24.1	8.6	40.0
44.671250	31.7	120.000	117	V	-125	17.3	8.3	40.0
45.035000	31.3	120.000	322	V	129	17.1	8.7	40.0
130.395000	21.8	120.000	127	V	-100	18.7	21.7	43.5
888.571250	33.3	120.000	293	V	117	28.7	12.7	46.0

6 Photographs of the Test Set-Up

Refer to the test setup file.

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7 List of Test and Measurement Instruments

Equip.	Description	Model	Manufacturer	Last Date DD.MM.YYYY	Due Date DD.MM.YYYY
9061503	Shielded enclosure	10.055x3.605x3.000	Frankonia	08.11.2023	08.11.2028
9023229	EMI test receiver	ESR3	Rohde&Schwarz	03.08.2024	03.08.2025
G1830003	Artificial mains network	ENV432	Rohde&Schwarz	11.10.2024	11.10.2025
G1824248	Dual display multimeter	F45	Fluke	28.06.2024	28.06.2025
9062744	EMI measurement software	EMC32-E+(10.60.20)	Rohde&Schwarz	N/A	N/A
G1811378	3m semi-anechoic chamber	SAC3	Frankonia	03.12.2023	03.12.2026
G1811391	EMI test receiver	ESCI	Rohde&Schwarz	17.10.2024	17.10.2025
G1811425	Bilog antenna	CBL 6112D	Teseq	20.04.2023	20.04.2026
9062745	EMI measurement software	EMC32-MEB (10.60.20)	Rohde&Schwarz	N/A	N/A

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End of test report