

Prüfbericht-Nr.: <i>Test Report No.:</i>	CN25YOUN 001	Auftrags-Nr.: <i>Order No.:</i>	326071839	Seite 1 von 23 <i>Page 1 of 23</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	1288983	Auftragsdatum: <i>Order date.:</i>	2025-01-07	
Auftraggeber: <i>Client:</i>	IKEA of Sweden AB Box 702, SE-343 81 Älmhult, Sweden			
Prüfgegenstand: <i>Test item:</i>	Fixed Luminaire			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	B2413			
Auftrags-Inhalt: <i>Order content:</i>	TÜV Rheinland EMC service			
Prüfgrundlage: <i>Test specification:</i>	FCC 47 CFR Part 15, Subpart B:2023 Class B ICES-005:2018			
Wareneingangsdatum: <i>Date of receipt:</i>	2025-01-10	Refer to the EUT photos file		
Prüfmuster-Nr.: <i>Test sample No.:</i>	A003998857-002			
Prüfzeitraum: <i>Testing period:</i>	2025-05-08~2025-05-23			
Ort der Prüfung: <i>Place of testing:</i>	Refer to clause 1.1			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i> 2025-07-24	<i>Rambo Liu</i> Rambo Liu	<i>Hexiong Liu</i> HeXiong Liu		
Stellung: / Position	Project engineer	Ausstellungsdatum: <i>Issue date:</i> 2025-07-24		
Stellung: / Position		Authorizer		
Sonstiges / Other:	FCC ID: FHO- B2413 Test Firm Name: TUV Rheinland (Shanghai) Co., Ltd. Designation Number: CN1396 Test Firm Registration Number: 930979			
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>			
<small>* 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 specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested</small>				
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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>
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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.</i></p> <p><i>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>

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*Page 3 of 23***Revision history of test report:**

Report number	Issue date	Contents and reason for change if appropriate
CN25YOUN 001	2025-07-24	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 fixed luminaire 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, 50-60 Hz
Rated power : Max 10.5 W

2.3 Independent Operation Modes

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

2.4 Description of interconnecting cables

None.

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 less than 108 MHz.

2.7 Submitted Documents

Circuit diagram, label and user's manual.

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.

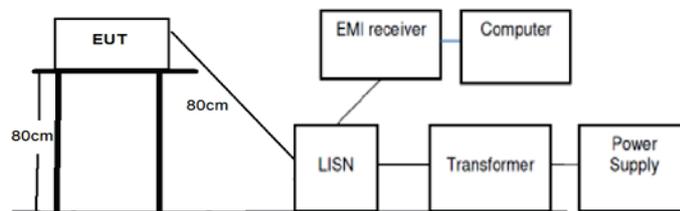
Refer to the related paragraph of this report.

The sequence of testing:

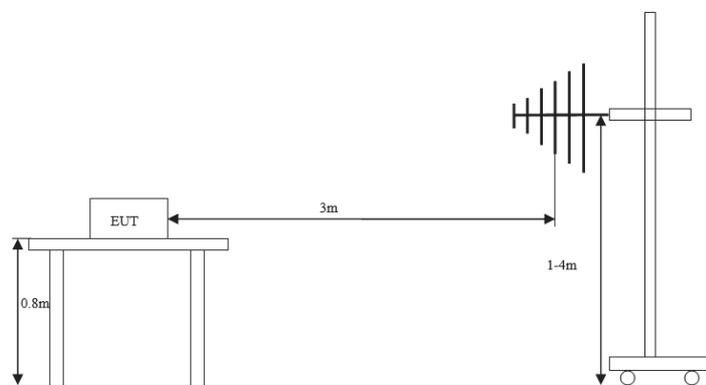
1. Conducted emission tests were performed on 2025-05-23.
2. Radiated emission tests were performed on 2025-05-08.

3.2 Equipment and cable arrangement

Block diagram for 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.

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3.3 Physical Configuration for Testing

Refer to the related paragraph of this report.

3.4 Test Operation and Test Software

Refer to the related paragraph of this report. No software was used.

3.5 Special Accessories and Auxiliary Equipment

None.

3.6 Countermeasures to achieve EMC Compliance

No special measure is employed to achieve the requirement.

4 Conformity Decision Rule

For all EMI tests (when 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	: 2025-05-23
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	: Lighting on
Ambient condition	: Temperature: 24.2 °C; Relative humidity: 33.1 %
Expanded measurement uncertainty ($k=2$)	: 2.33 dB The minimum margin to the limit is 23.87 dB at 0.156750 MHz. The margin is higher than the expanded measurement uncertainty.

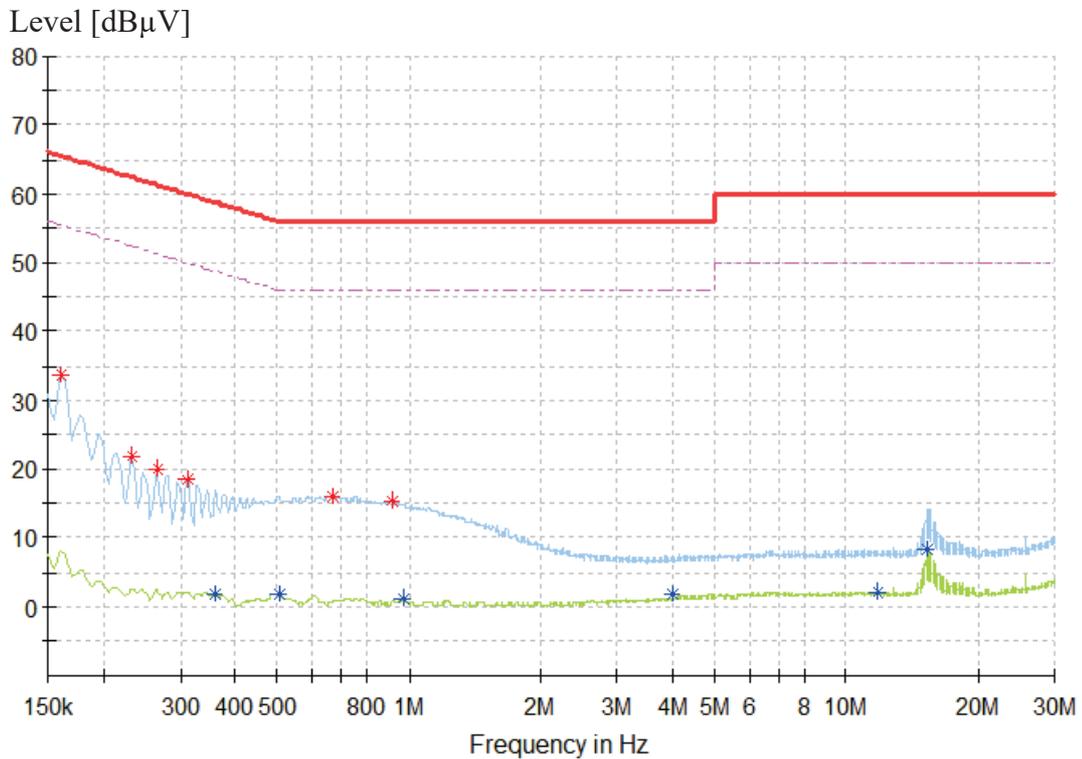
The measurement setup was made according to ANSI C63.4-2014 in a shielded room. The measurement equipment like test receivers, quasi-peak detector and artificial mains network (AMN) are in compliance with CISPR 16-1 series standards.

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.

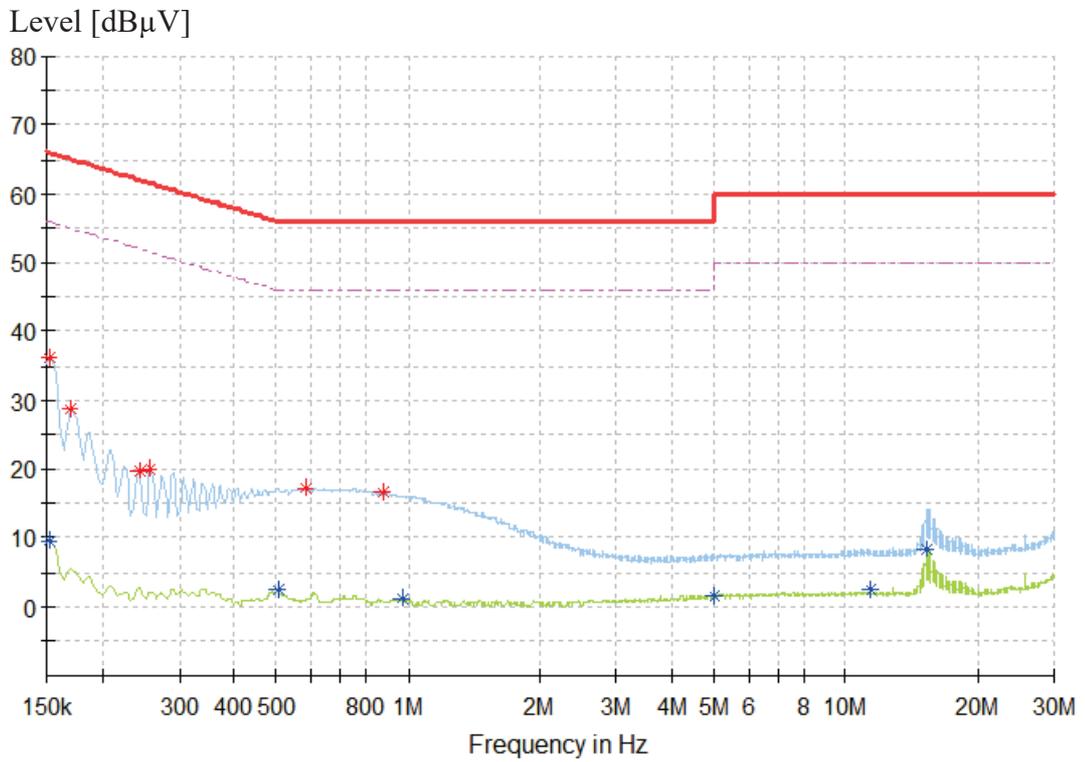
The following figures and tables were measured by an automatic measuring system. Both quasi-peak and average measurements were performed. In the following spectral diagram, “*” means Quasi-Peak Value and “*” means Average Value results.

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 factors 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)

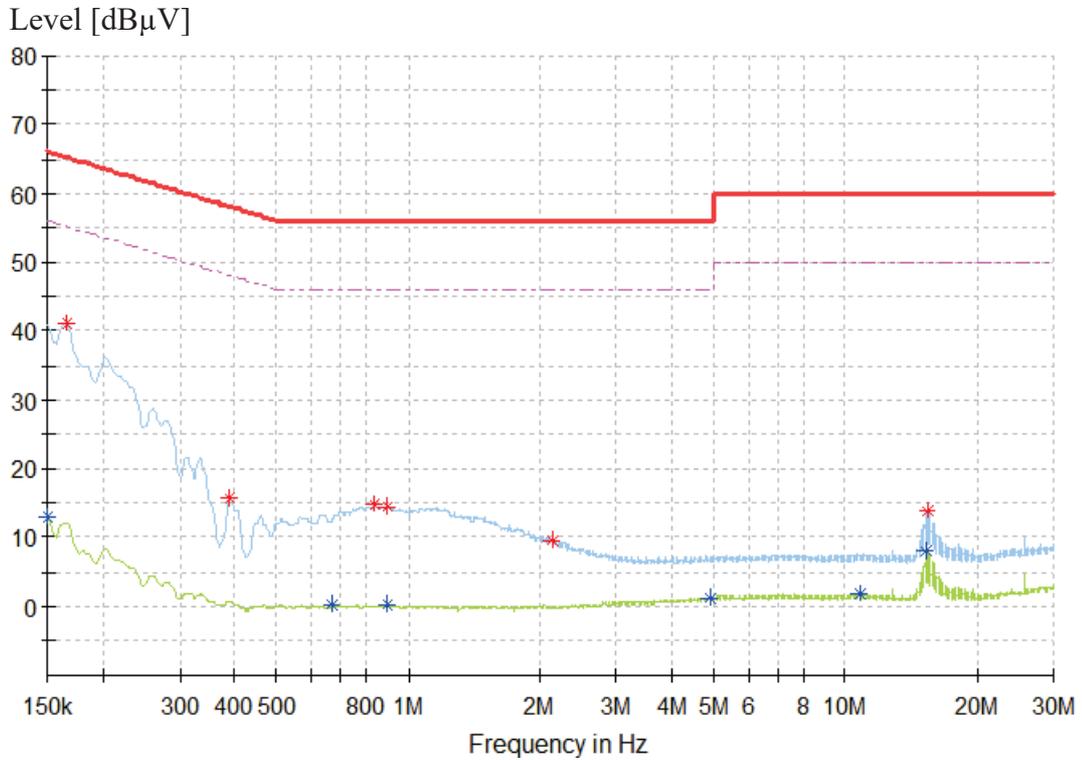
Figure 1: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, Line L, maximum lighting mode

Final measurement result:

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.161250	33.52	---	65.40	31.88	L1	10.6
0.233250	21.74	---	62.33	40.60	L1	10.5
0.264750	19.98	---	61.28	41.30	L1	10.5
0.312000	18.44	---	59.92	41.48	L1	10.5
0.361500	---	1.80	48.69	46.89	L1	10.5
0.505500	---	1.86	46.00	44.14	L1	10.5
0.672000	16.06	---	56.00	39.94	L1	10.5
0.921750	15.32	---	56.00	40.68	L1	10.5
0.973500	---	1.06	46.00	44.94	L1	10.5
3.999750	---	1.79	46.00	44.21	L1	10.6
11.829750	---	2.19	50.00	47.81	L1	10.9
15.321750	---	8.13	50.00	41.87	L1	11.0

Figure 2: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, Line N, maximum lighting mode


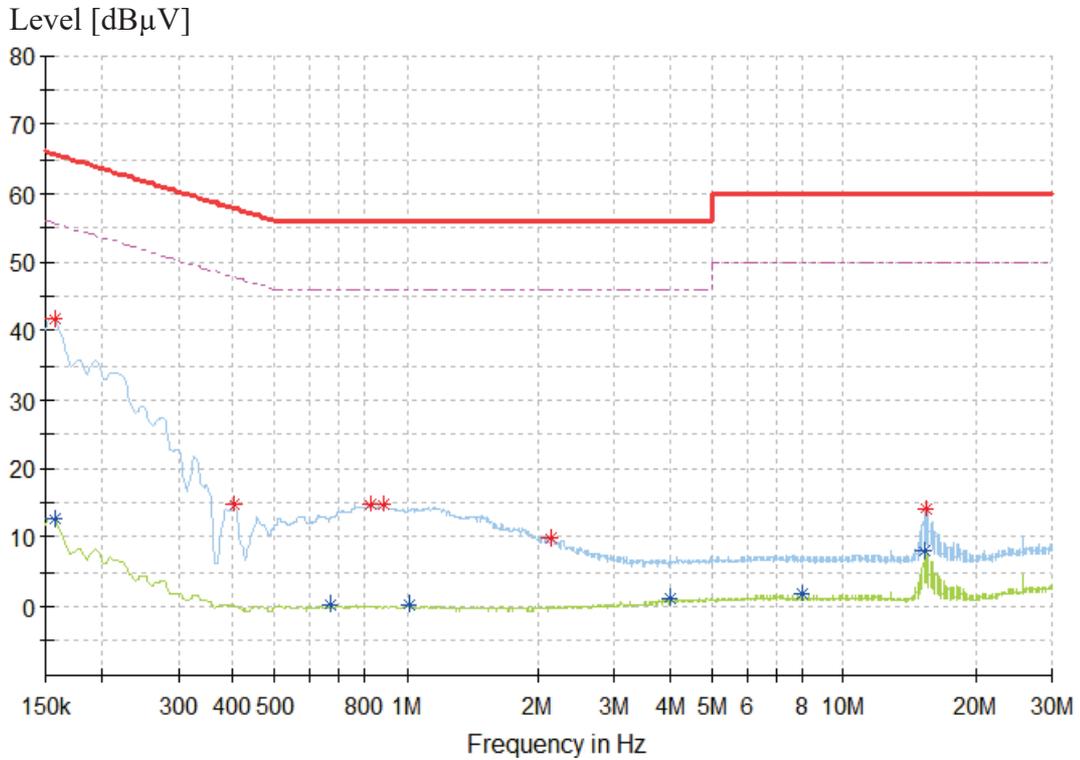
Final measurement result:

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.152250	36.15	---	65.88	29.72	N	10.3
0.152250	---	9.56	55.88	46.32	N	10.3
0.170250	28.66	---	64.95	36.29	N	10.3
0.242250	19.65	---	62.02	42.37	N	10.3
0.258000	19.96	---	61.50	41.54	N	10.3
0.503250	---	2.26	46.00	43.74	N	10.3
0.584250	17.22	---	56.00	38.78	N	10.3
0.881250	16.45	---	56.00	39.55	N	10.3
0.975750	---	1.22	46.00	44.78	N	10.3
4.989750	---	1.60	46.00	44.40	N	10.4
11.370750	---	2.24	50.00	47.76	N	10.8
15.321750	---	8.34	50.00	41.66	N	10.9

Figure 3: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, Line L, minimum lighting mode


Final measurement result:

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	---	12.94	56.00	43.06	L1	10.6
0.165750	41.11	---	65.17	24.07	L1	10.6
0.390750	15.56	---	58.05	42.49	L1	10.5
0.669750	---	0.22	46.00	45.78	L1	10.5
0.840750	14.62	---	56.00	41.38	L1	10.5
0.892500	---	0.15	46.00	45.85	L1	10.5
0.894750	14.51	---	56.00	41.49	L1	10.5
2.141250	9.62	---	56.00	46.38	L1	10.5
4.908750	---	1.27	46.00	44.73	L1	10.6
10.720500	---	1.65	50.00	48.35	L1	10.9
15.321750	---	8.09	50.00	41.91	L1	11.0
15.481500	13.85	---	60.00	46.15	L1	11.0

Figure 4: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, Line N, minimum lighting mode


Final measurement result:

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.156750	41.77	---	65.63	23.87	N	10.3
0.156750	---	12.54	55.63	43.10	N	10.3
0.402000	14.65	---	57.81	43.16	N	10.3
0.669750	---	0.10	46.00	45.90	N	10.3
0.829500	14.82	---	56.00	41.18	N	10.3
0.890250	14.62	---	56.00	41.38	N	10.3
1.016250	---	0.06	46.00	45.94	N	10.3
2.141250	9.93	---	56.00	46.07	N	10.4
3.999750	---	1.02	46.00	44.98	N	10.4
8.000250	---	1.61	50.00	48.39	N	10.6
15.321750	---	8.00	50.00	42.00	N	10.9
15.481500	14.01	---	60.00	45.99	N	10.9

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	: 2025-05-08
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): (see Note 2) 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
Bandwidth of EMI receiver for final measurement	: 120 kHz
Measurement time for final measurement	: 1 s
Kind of test site	: Semi-anechoic chamber
Supply voltage	: AC 120 V, 60 Hz
Operational mode	: Lighting on
Ambient condition	: Temperature: 25.6 °C; Relative humidity: 36.3 %
Expanded measurement uncertainty ($k=2$)	: 5.40 dB The minimum margin to the limit is 10.2 dB at 30.727500 MHz. The margin is higher than the 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 a 0.8 m high wooden table above the reference ground plane. The wooden table was rotated 360° around and the height of the antenna 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 measured by an automatic measurement system. Before final measurement, a survey was conducted with EUT's speed control adjusted to determine in which state the maximum disturbance was obtained. The final measurement was made in the state the maximum disturbance was obtained. In the following spectral diagram, "x" means quasi-peak test results.

Notes on the following tables of radiated emission results and conversions:

QuasiPeak (dB μ V/m): final measurement results by using quasi-peak detector.

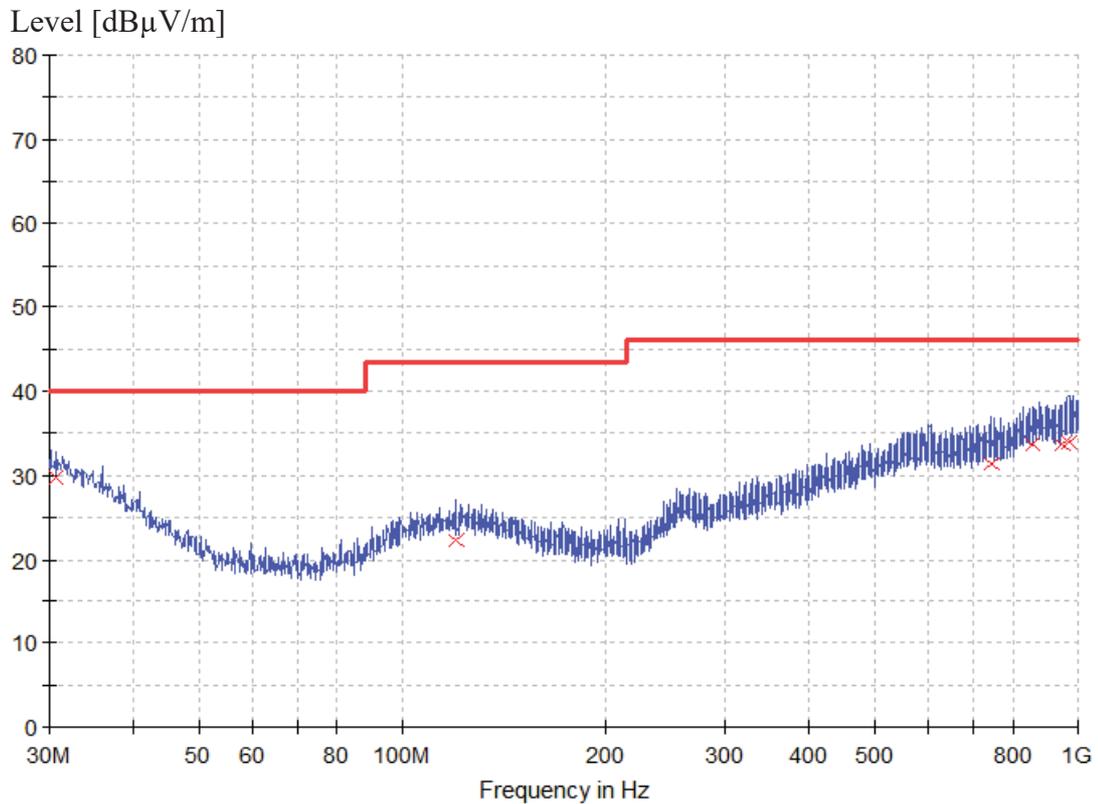
Corr. (dB): correction factors including antenna factor, cable loss, and gain of pre-amplifier (if used).

Margin: Limit (dB μ V/m) - QuasiPeak (dB μ V/m).

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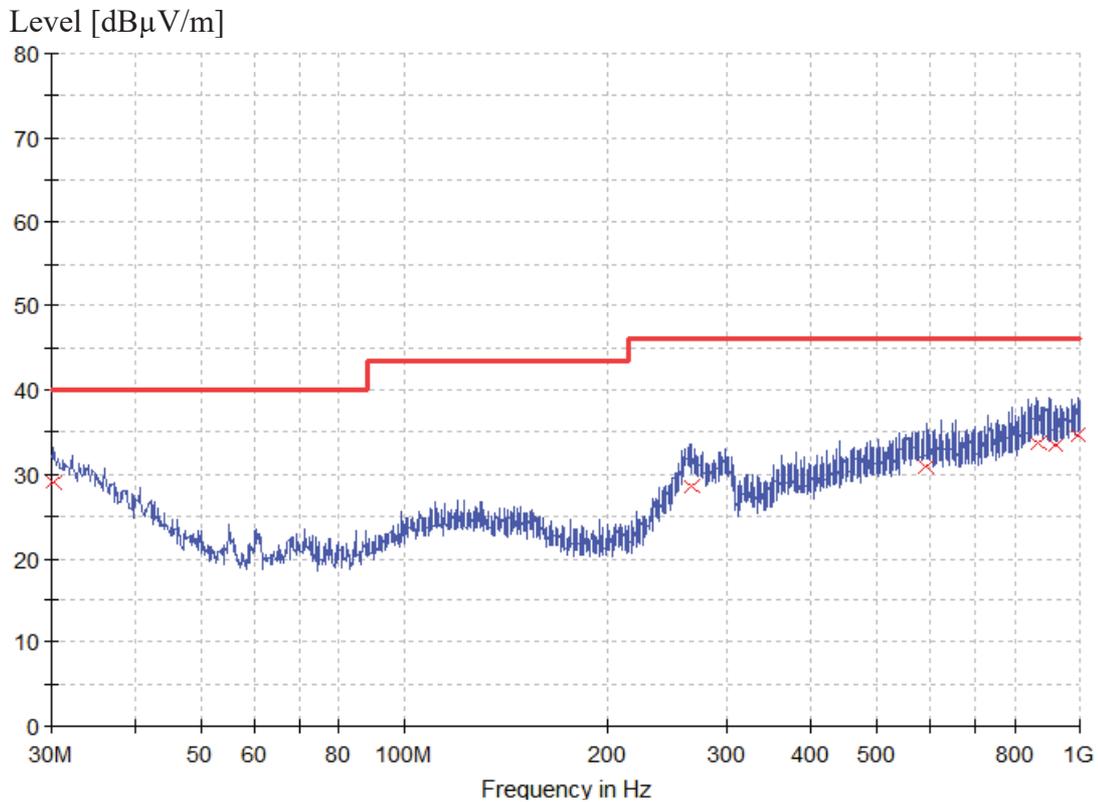
Note 1: The highest frequency in the EUT is less than 108 MHz. According to FCC Part 15 subpart B §15.33 (b) (1), the upper frequency for radiated emission measurement is 1000 MHz.

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.

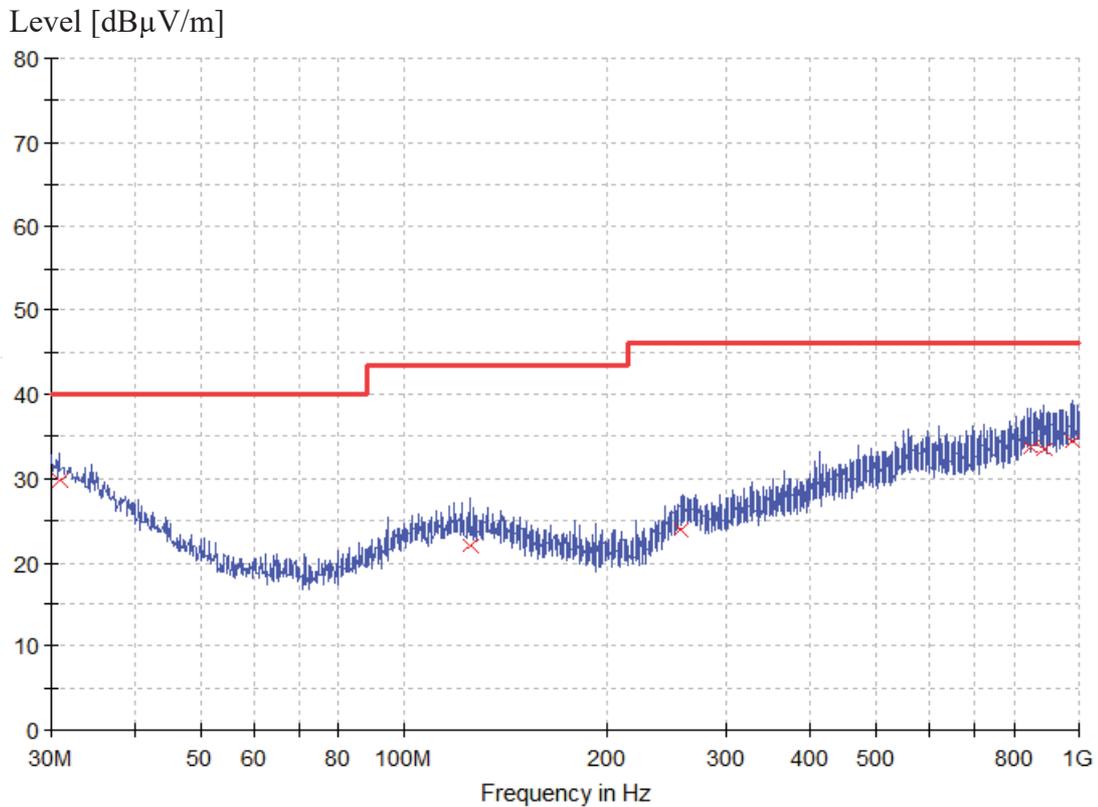
Figure 5: Spectral diagrams and measurement results, 30-1000 MHz, Horizontal polarization, maximum lighting mode


Final quasi-peak measurement results:

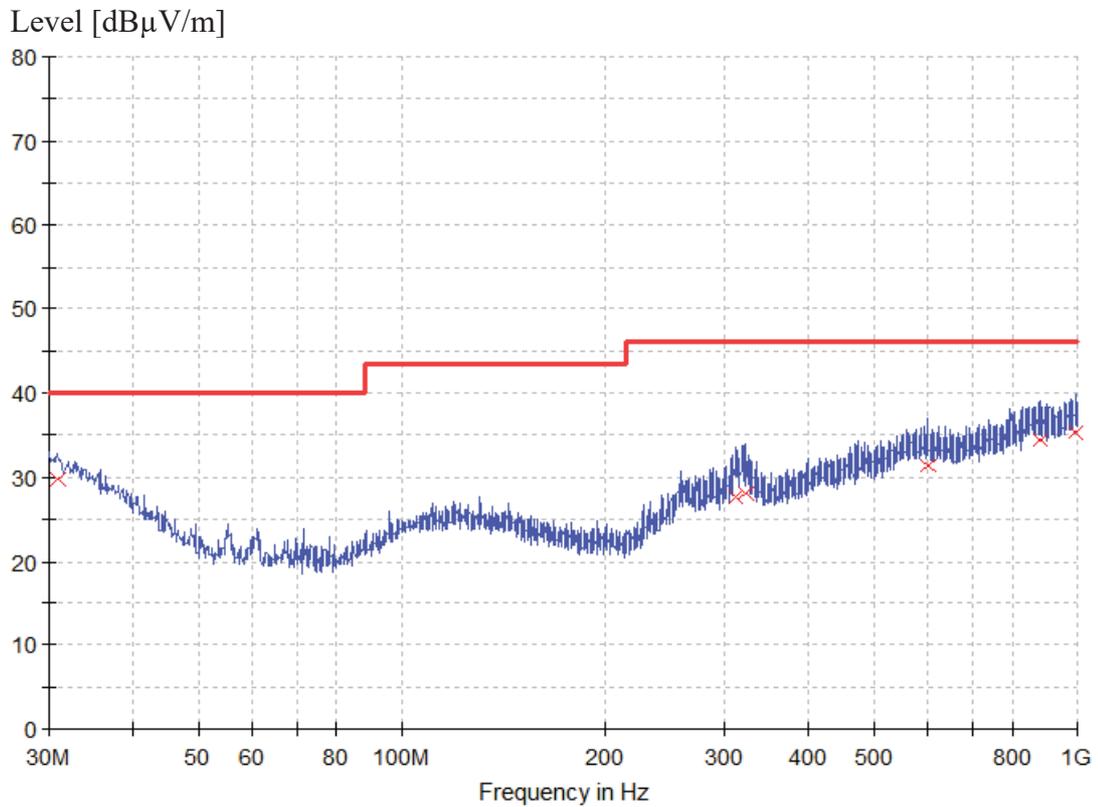
Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
30.727500	29.8	120.000	330.0	H	74.0	25.3	10.2	40.0
119.967500	22.2	120.000	190.0	H	-112.0	19.0	21.4	43.5
743.677500	31.4	120.000	285.0	H	-180.0	27.7	14.6	46.0
858.865000	33.7	120.000	110.0	H	-179.0	29.0	12.3	46.0
948.711250	33.6	120.000	155.0	H	68.0	29.0	12.4	46.0
967.383750	34.0	120.000	280.0	H	12.0	29.5	12.1	46.0

Figure 6: Spectral diagrams and measurement results, 30-1000 MHz, Vertical polarization, maximum lighting mode

Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
30.242500	29.1	120.000	100.0	V	71.0	25.5	10.9	40.0
265.952500	28.6	120.000	230.0	V	18.0	20.8	17.4	46.0
594.055000	30.8	120.000	155.0	V	38.0	26.6	15.2	46.0
870.868750	33.6	120.000	180.0	V	-128.0	28.7	12.4	46.0
920.581250	33.4	120.000	310.0	V	-164.0	28.7	12.6	46.0
992.000000	34.6	120.000	140.0	V	39.0	29.8	11.4	46.0

Figure 7: Spectral diagrams and measurement results, 30-1000 MHz, Horizontal polarization, minimum lighting mode

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)
30.848750	29.8	120.000	390.0	H	92.0	25.2	10.3	40.0
125.908750	22.1	120.000	330.0	H	35.0	18.9	21.4	43.5
257.828750	23.8	120.000	260.0	H	18.0	20.6	22.2	46.0
848.801250	33.6	120.000	125.0	H	51.0	29.0	12.4	46.0
887.480000	33.4	120.000	285.0	H	149.0	28.5	12.6	46.0
981.085000	34.3	120.000	155.0	H	-154.0	29.8	11.7	46.0

Figure 8: Spectral diagrams and measurement results, 30-1000 MHz, Vertical polarization, minimum lighting mode

Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
30.848750	29.7	120.000	155.0	V	65.0	25.2	10.3	40.0
310.572500	27.5	120.000	100.0	V	18.0	20.6	18.5	46.0
322.333750	28.2	120.000	160.0	V	167.0	20.9	17.8	46.0
601.087500	31.4	120.000	205.0	V	135.0	26.7	14.6	46.0
883.842500	34.4	120.000	185.0	V	-68.0	28.5	11.6	46.0
991.633750	35.3	120.000	105.0	V	-97.0	29.8	10.7	46.0

6 Photographs of the Test Set-Up

Refer to the test setup file.

7 List of Test and Measurement Instruments

Equipment no	Name	Model	Serial no	Manufacturer	Calibration date	Due date
EMC-S-028	EMI measurement software	EMC32-E+ (10.60.20)	100150	Rohde & Schwarz	N/A	N/A
EMC-C-366	Thermohygrometer	608-H1	2485149174	testo	2024-07-26	2025-07-26
EMC-C-195	EMI test receiver	ESR3	102794	Rohde & Schwarz	2024-08-03	2025-08-03
EMC-C-190	Artificial mains network	ENV432	101514	Rohde & Schwarz	2024-10-11	2025-10-11
EMC-C-155	BiLog antenna	CBL 6112D	40530	Teseq	2025-03-24	2026-09-24
EMC-C-121	Thermohygrometer	608-H1	1241320265	testo	2024-06-25	2025-06-25
EMC-C-066	EMI test receiver	ESCI	100280	Rohde & Schwarz	2024-10-17	2025-10-17
EMC-S-032	EMI measurement software	EMC32-MEB (10.60.20)	100697	Rohde & Schwarz	N/A	N/A
EMC-C-001	3 m semi-anechoic chamber	SAC3	FJ129002	Frankonia	2023-12-03	2026-12-03

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End of test report