

Prüfbericht-Nr.: Test report no.:	CN23DQQX 001	Auftrags-Nr.: Order no.:	244510147	Seite 1 von 24 Page 1 of 24
Kunden-Referenz-Nr.: Client reference no.:	1288983	Auftragsdatum: Order date:	2023-04-23	
Auftraggeber: Client:	IKEA of Sweden AB Box 702, SE-343 81 Älmhult, Sweden			
Prüfgegenstand: Test item:	Portable luminaires			
Bezeichnung / Typ-Nr.: Identification / Type no.:	J2303 Solvinden			
Auftrags-Inhalt: Order content:	TÜV Rheinland EMC service			
Prüfgrundlage: Test specification:	FCC 47 CFR Part 15, Subpart B:2021 Class B ICES-005:2018			
Wareneingangsdatum: Date of sample receipt:	2023-04-20	Refer to the EUT photos file		
Prüfmuster-Nr.: Test sample no:	A003460593-001			
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:	Ausstellungsdatum: Issue date:			
Stellung / Position:	Stellung / Position:			
Sonstiges / Other:	FCC ID: FHO-J2303 Test Firm Registration Number: 958801			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende: * Legend:	P(ass) = entspricht o.g. Prüfgrundlage(n) P(ass) = passed a.m. test specification(s) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) F(ail) = failed a.m. test specification(s) N/A = nicht anwendbar N/A = not applicable N/T = nicht getestet N/T = not tested			
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Anmerkungen
Remarks

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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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TEST SUMMARY

5.1.1 CONDUCTED EMISSION

Result:

Passed

5.2.1 RADIATED EMISSION (30-1000 MHz)

Result:

Passed

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1 Test Sites

1.1 Test Facilities

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

Address: No.177, 178, Lane 777 West Guangzhong Road, Jing'an District, Shanghai, 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 portable luminaires 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, 1.2 W
Battery input	:	2 × AAA HR03 1.2 V DC, 0.06 W

2.3 Independent Operation Modes

The basic operation modes are: "ON" and "OFF".

2.4 Description of interconnecting cables

N/A

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 400 kHz.

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.

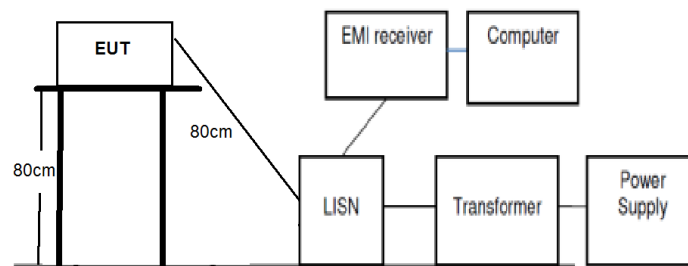
Refer to the related paragraph of this report.

The sequence of testing:

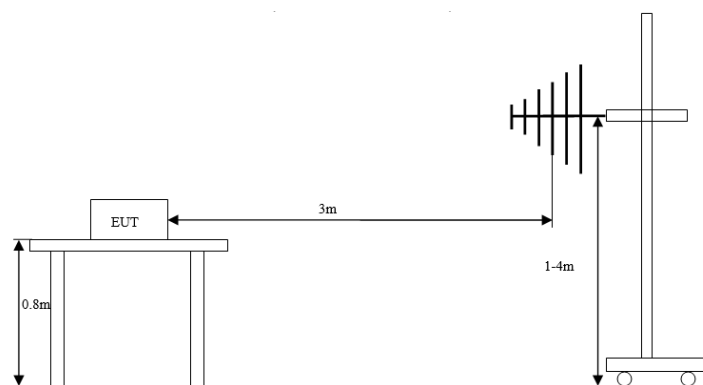
1. Radiated emission tests were performed on 2023-05-08.
2. Conducted emission tests were performed on 2023-05-09.

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

During the tests, the power supply (Model: ICPSW5-17NA-1, Brand: IKEA) and laptop (Model: T450, Brand: ThinkPad) were used.

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
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Date of testing	: 2023-05-09
Test procedure	: FCC 47 CFR Part 15, Subpart B:2021, 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: Charging by power supply and lighting on Mode 2: Charging by laptop and lighting on
Ambient condition	: Temperature: 21.6 °C; Relative humidity: 46.7 %
Expanded measurement uncertainty (k=2)	: 3.39 dB

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 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

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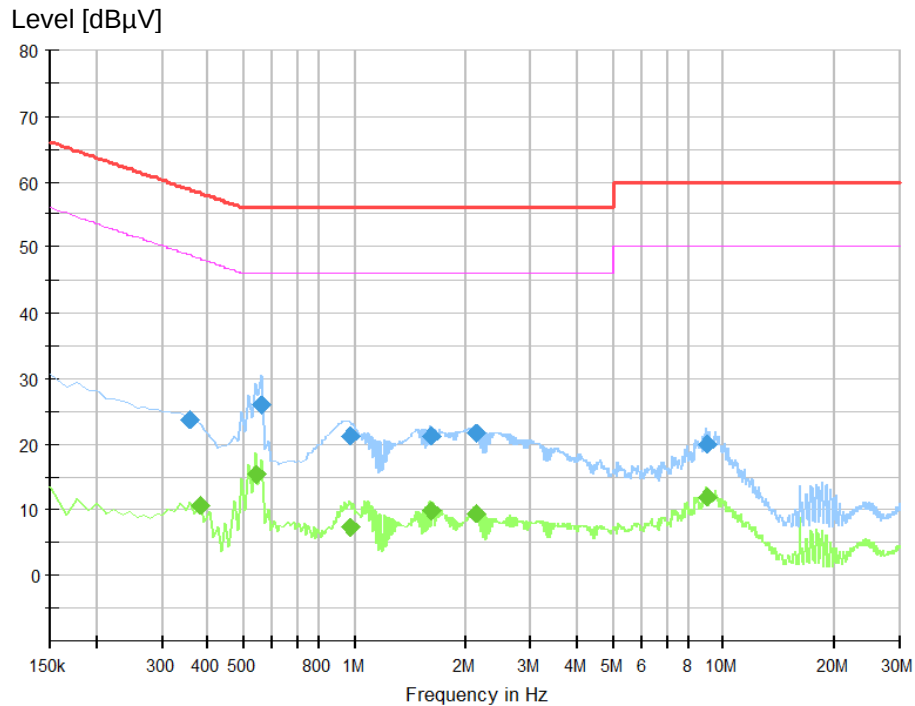
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Transd (dB): transducer factor including cable loss, insertion loss of artificial mains network and gain of pre-amplifier (if used)

Margin: Limit (dBμV) - Level (dBμV)

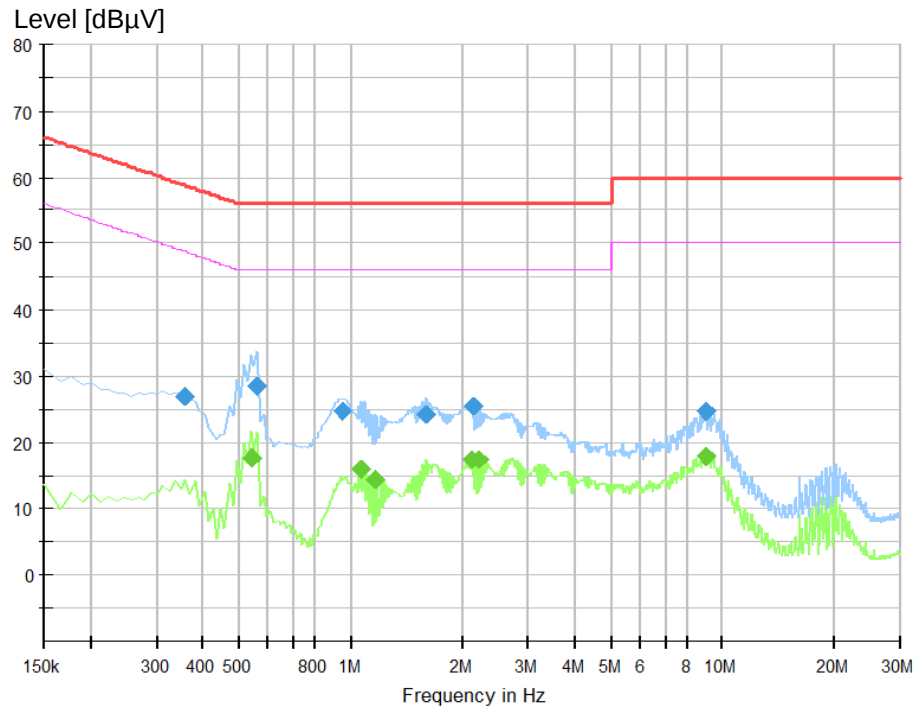
Figure 1: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L on mode 1


Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.358125	23.69	58.77	35.08	1000.0	9.000	L1
0.560625	26.01	56.00	29.99	1000.0	9.000	L1
0.965625	21.17	56.00	34.83	1000.0	9.000	L1
1.606875	21.28	56.00	34.72	1000.0	9.000	L1
2.135625	21.70	56.00	34.30	1000.0	9.000	L1
9.020625	19.87	60.00	40.13	1000.0	9.000	L1

Final Average measurement result:

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.380625	10.50	48.27	37.77	1000.0	9.000	L1
0.538125	15.37	46.00	30.63	1000.0	9.000	L1
0.965625	7.37	46.00	38.63	1000.0	9.000	L1
1.606875	9.76	46.00	36.24	1000.0	9.000	L1
2.135625	9.29	46.00	36.71	1000.0	9.000	L1
9.031875	11.98	50.00	38.02	1000.0	9.000	L1

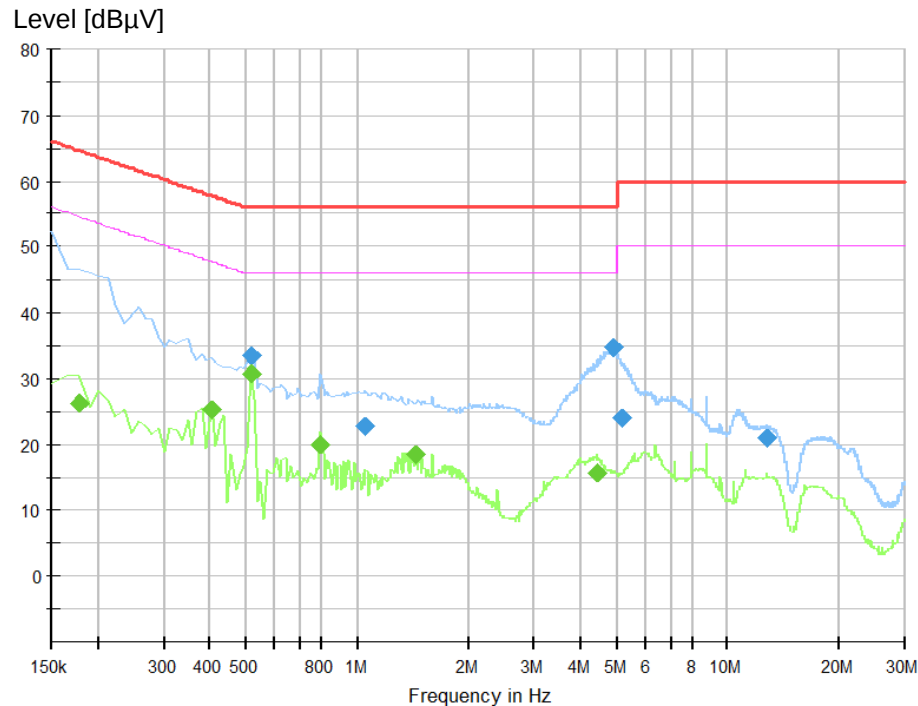
Figure 2: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N on mode 1


Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.358125	27.05	58.77	31.72	1000.0	9.000	N
0.560625	28.35	56.00	27.65	1000.0	9.000	N
0.954375	24.74	56.00	31.26	1000.0	9.000	N
1.584375	24.24	56.00	31.76	1000.0	9.000	N
2.135625	25.37	56.00	30.63	1000.0	9.000	N
9.031875	24.65	60.00	35.35	1000.0	9.000	N

Final Average measurement result:

Frequency (MHz)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.538125	17.60	46.00	28.40	1000.0	9.000	N
1.066875	15.89	46.00	30.11	1000.0	9.000	N
1.156875	14.27	46.00	31.73	1000.0	9.000	N
2.113125	17.33	46.00	28.67	1000.0	9.000	N
2.203125	17.40	46.00	28.60	1000.0	9.000	N
9.020625	17.82	50.00	32.18	1000.0	9.000	N

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


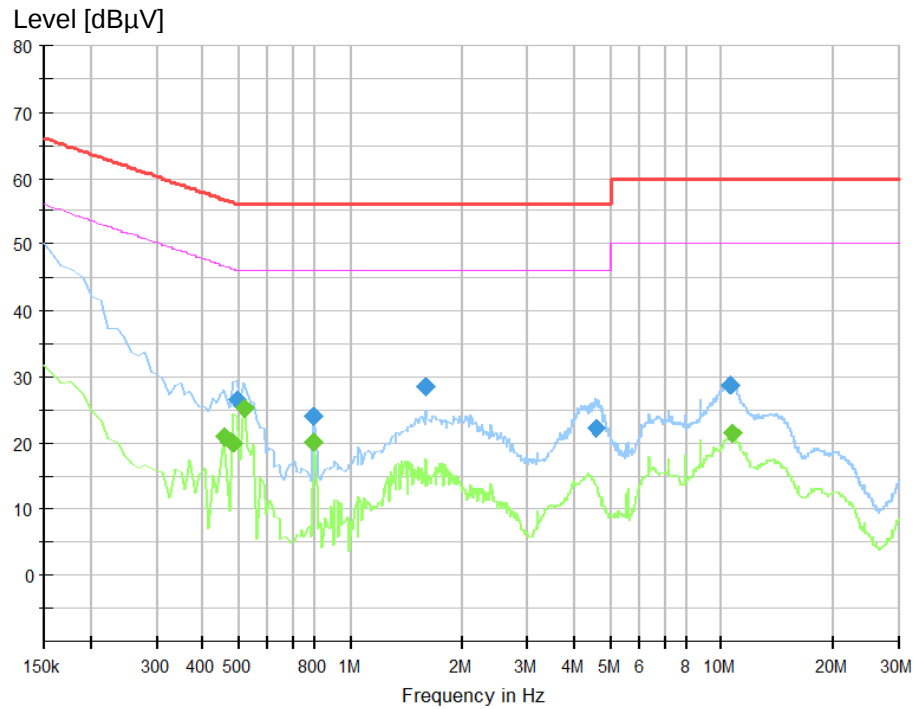
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.515625	33.59	56.00	22.41	1000.0	9.000	L1
1.055625	22.57	56.00	33.43	1000.0	9.000	L1
4.925625	34.80	56.00	21.20	1000.0	9.000	L1
5.195625	23.86	60.00	36.14	1000.0	9.000	L1
12.766875	21.00	60.00	39.00	1000.0	9.000	L1

Final Average measurement result:

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.178125	26.24	54.57	28.33	1000.0	9.000	L1
0.403125	25.11	47.79	22.67	1000.0	9.000	L1
0.515625	30.62	46.00	15.38	1000.0	9.000	L1
0.796875	19.91	46.00	26.09	1000.0	9.000	L1
1.438125	18.39	46.00	27.61	1000.0	9.000	L1
4.419375	15.75	46.00	30.25	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
0.493125	26.47	56.12	29.64	1000.0	9.000	N
0.796875	23.85	56.00	32.15	1000.0	9.000	N
1.595625	28.46	56.00	27.54	1000.0	9.000	N
4.588125	22.21	56.00	33.79	1000.0	9.000	N
10.505625	28.67	60.00	31.33	1000.0	9.000	N

Final Average measurement result:

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.459375	20.90	46.70	25.81	1000.0	9.000	N
0.481875	19.93	46.31	26.38	1000.0	9.000	N
0.515625	25.19	46.00	20.81	1000.0	9.000	N
0.796875	20.19	46.00	25.81	1000.0	9.000	N
10.629375	21.46	50.00	28.54	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	: 2023-05-08
Test procedure	: FCC 47 CFR Part 15, Subpart B:2021, 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 for power supply DC 2.4 V for battery
Operational mode	: Mode 1: Charging by power supply and lighting on Mode 2: Lighting on by battery powered
Ambient condition	: Temperature: 22.9 °C; Relative humidity: 43.7 %
Expanded measurement uncertainty ($k=2$)	: 5.49 dB

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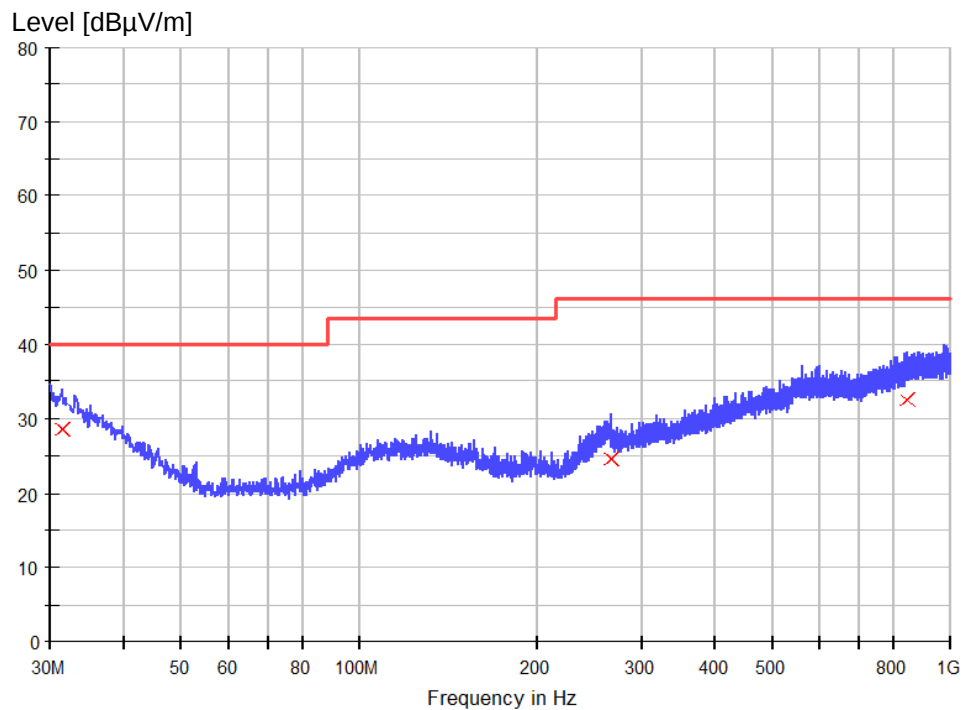
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Note 1: The highest frequency in the EUT is less than 108 MHz. According to FCC Part 15 subpart B §15.33 (b) (1), the upper frequency for radiated emission measurement is 1000 MHz.

Note 2: The class B limits of ICES-005:2018 is stricter than those FCC 47 CFR Part 15, Subpart B:2021 for 3 m test distance. Therefore, the former limits are used in following figures and tables.

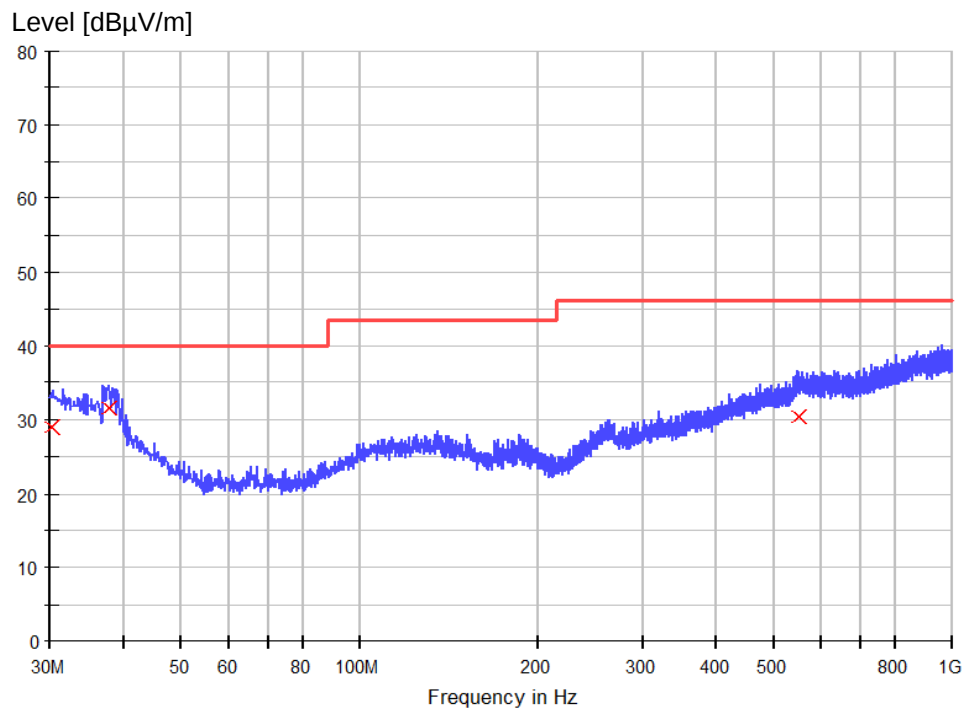
Figure 5: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 1



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)
31.333750	28.5	120.000	150.0	H	-180.0	24.8	11.6	40.0
266.195000	24.6	120.000	131.0	H	-68.0	20.5	21.4	46.0
842.375000	32.5	120.000	150.0	H	140.0	27.7	13.5	46.0

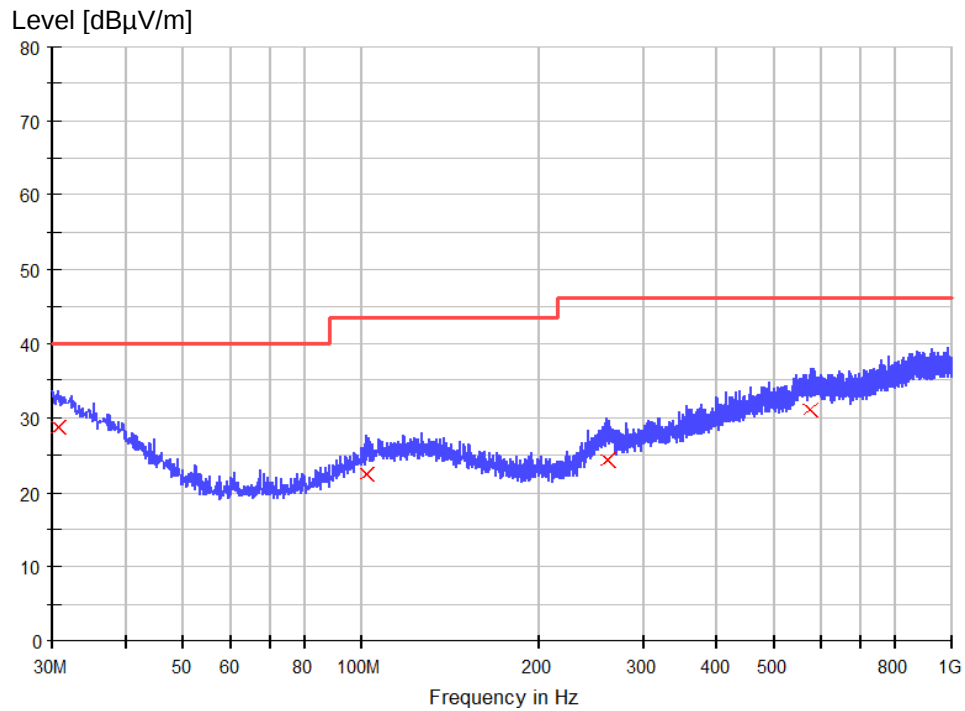
Figure 6: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 1



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)
30.121250	29.1	120.000	100.0	V	50.0	25.3	11.0	40.0
30.121250	29.1	120.000	100.0	V	-180.0	25.3	11.0	40.0
37.638750	31.6	120.000	100.0	V	-3.0	21.2	8.5	40.0
551.860000	30.3	120.000	150.0	V	180.0	26.4	15.7	46.0

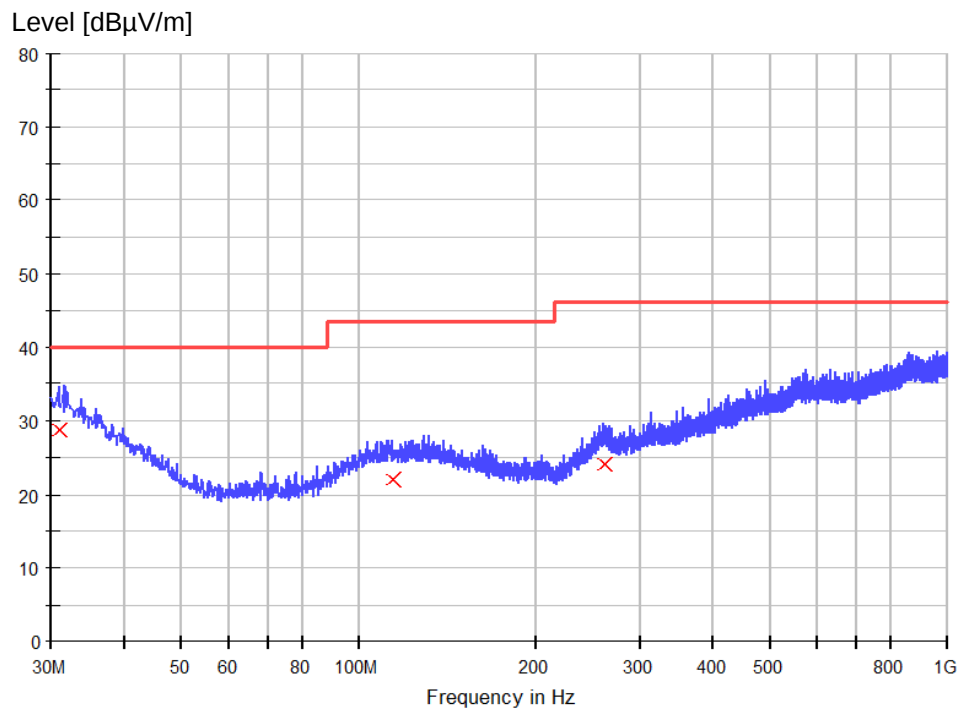
Figure 7: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 2



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)
30.606250	28.8	120.000	100.0	H	36.0	25.1	11.2	40.0
102.143750	22.4	120.000	113.0	H	112.0	17.9	21.1	43.5
261.708750	24.3	120.000	150.0	H	-90.0	20.7	21.7	46.0
573.078750	31.2	120.000	180.0	H	156.0	26.1	14.8	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)
30.363750	28.9	120.000	100.0	V	42.0	25.2	11.1	40.0
111.601250	22.3	120.000	121.0	V	-180.0	18.5	21.2	43.5
547.010000	31.5	120.000	100.0	V	117.0	26.1	14.5	46.0

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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
G1811378	3m modified semi-anechoic chamber	SAC3	Frankonia	10.06.2021	10.06.2024
G1811391	EMI test receiver	ESCI	Rohde&Schwarz	29.09.2022	29.09.2023
G1811425	Bilog antenna	CBL 6112D	Teseq	20.04.2023	20.04.2026
9023229	EMI test receiver	ESR3	Rohde&Schwarz	11.08.2022	11.08.2023
G1811403	Artificial mains network	ENV216	Rohde&Schwarz	19.10.2022	19.10.2023
G1824248	Dual display multimeter	F45	Fluke	08.10.2022	08.10.2024
G1824845	EMC measurement software	EMC32 (Ver 10.20.01)	Rohde&Schwarz	N/A	N/A

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End of test report