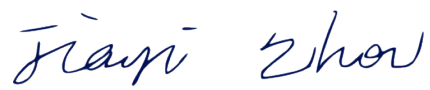


Prüfbericht-Nr.: Test report no.:	CN25LGVD 001	Auftrags-Nr.: Order no.:	326069540	Seite 1 von 37 Page 1 of 37
Kunden-Referenz-Nr.: Client reference no.:	1288983	Auftragsdatum: Order date:	2024-12-19	
Auftraggeber: Client:	IKEA of Sweden AB Box 702, SE-343 81 Älmhult, Sweden			
Prüfgegenstand: Test item:	Self-ballasted LED lamps			
Bezeichnung / Typ-Nr.: Identification / Type no.:	LED2402C3NA			
Auftrags-Inhalt: Order content:	TÜV Rheinland EMC service			
Prüfgrundlage: Test specification:	FCC 47 CFR Part 15, Subpart B:2023 Class B ICES-005:2018 ICES-003:2020			
Wareneingangsdatum: Date of sample receipt:	2025-03-21	Refer to the EUT photos file		
Prüfmuster-Nr.: Test sample no.:	A003951539-002			
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:	2025-05-20		Ausstellungsdatum: Issue date: 2025-05-20	
Stellung / Position:	Project engineer		Stellung / Position: Authorizer	
Sonstiges / Other:	FCC ID: FHO-LED2402C3NA 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. <i>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.</i>				

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Test report no.:

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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. 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. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: go.tuv.com/digital-signature</p> <p><i>As contractually agreed, this document has been signed digitally only. TUV 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, TUV 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. For information on verifying the authenticity of our documents, please visit the following website: go.tuv.com/digital-signature</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.</i>
<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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Test Report No.:

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Revision history of test report:

Report number	Issue date	Contents and reason for change if appropriate
CN25LGVD 001	2025-05-20	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 self-ballasted LED lamps 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, 42 mA
Rated power	: 3.7 W
RF IC	: SiMG301

2.3 Independent Operation Modes

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

The test mode as follows:

"On"

- Mode 1: Warm lighting with the max. lighting output.
- Mode 2: Warm lighting with the min. lighting output.
- Mode 3: White lighting with the max. lighting output.
- Mode 4: White lighting with the min. lighting output.

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 2480 MHz.

2.7 Submitted Documents

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.

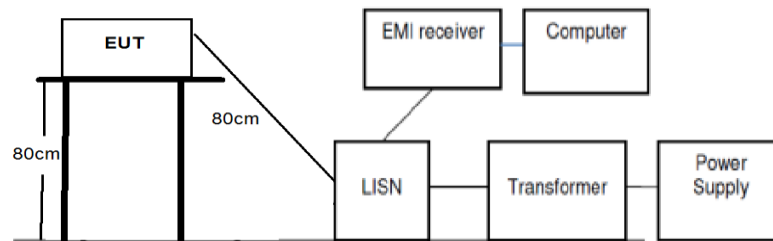
Refer to the related paragraph of this report.

The sequence of testing:

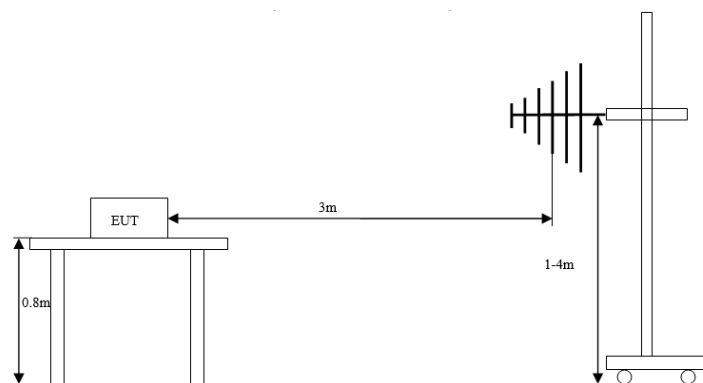
1. Conducted emission tests were performed on 2025-03-27.
2. Radiated emission tests were performed on 2025-03-27.

3.2 Equipment and cable arrangement

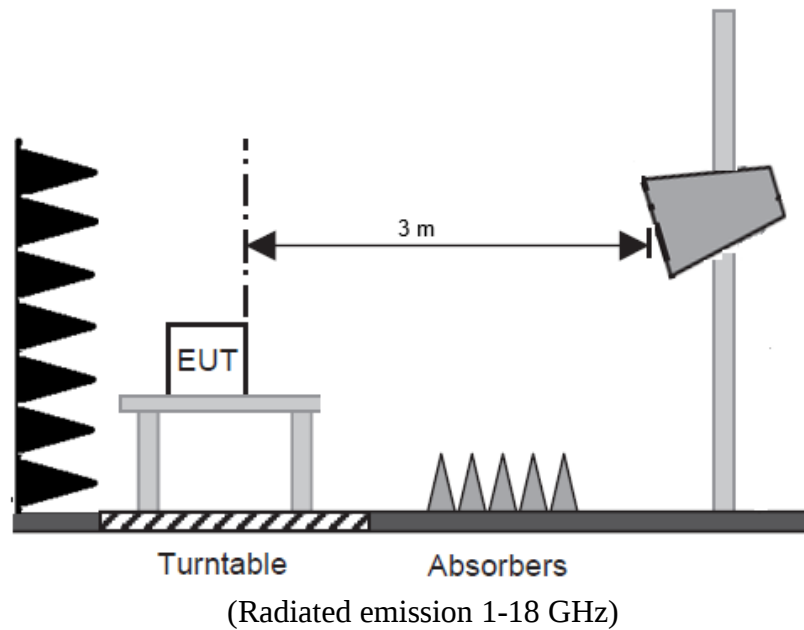
Block diagram for both conducted emission and radiated emission tests is as follows:



(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

The “Home” APP for iPhone was used during the tests.

3.4 Special Accessories and Auxiliary Equipment

During the tests, the following auxiliary equipment were used.

No.	Product	Model	Brand
1	Mobile phone	iPhone 15	Apple
2	Loudspeaker	HomePod mini	Apple
3	Remote control	E2489	IKEA

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	: 2025-03-27	
Test procedure	: FCC 47 CFR Part 15, Subpart B:2023, ICES-005:2018, ICES-003:2020, 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: Warm lighting with the max. lighting output. Mode 2: Warm lighting with the min. lighting output. Mode 3: White lighting with the max. lighting output. Mode 4: White lighting with the min. lighting output.	
Ambient condition	: Temperature: 22.6 °C; Relative humidity: 53.2 %	
Expanded measurement uncertainty (k=2)	: 2.33 dB The minimum margin to the limit is 3.18 dB at 0.525750MHz. 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.

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.

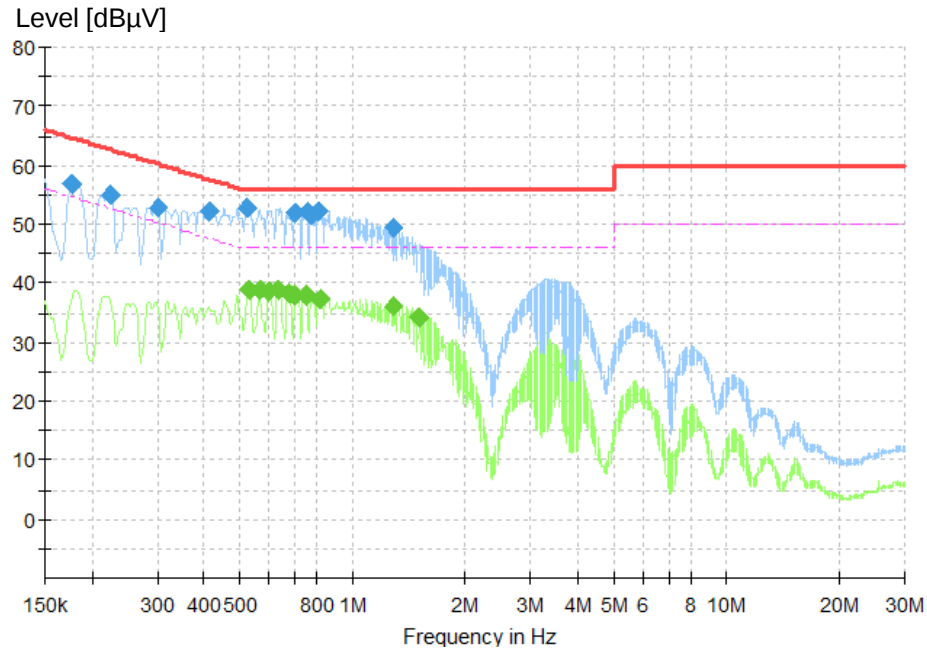
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Notes on following tables of conducted emission results and conversions:

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)

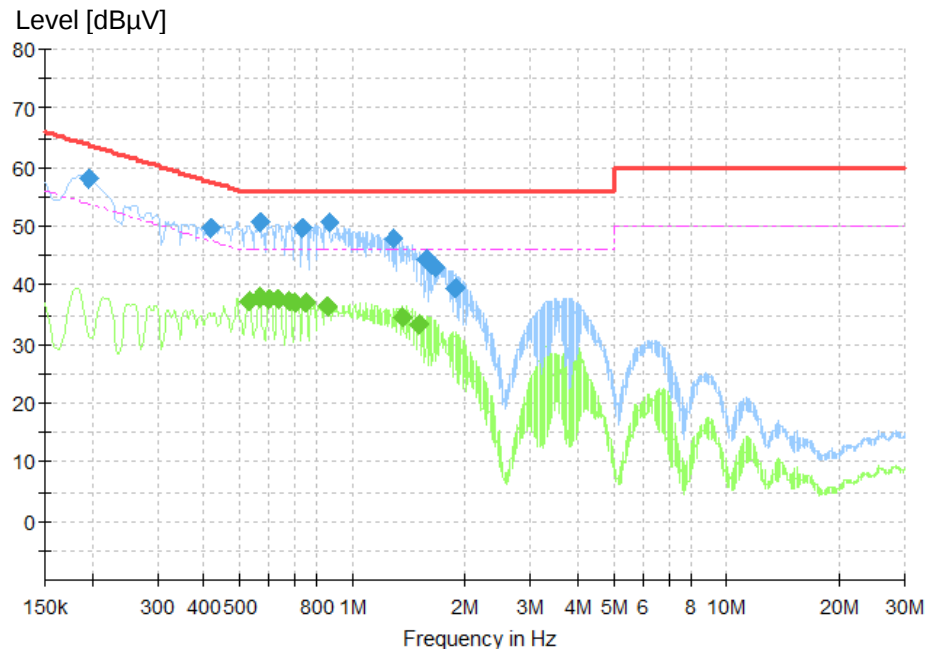
Figure 1: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L&N, Mode 1


Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.177000	56.83	64.63	7.79	1000.0	9.000	N	10.5
0.224250	54.85	62.66	7.81	1000.0	9.000	N	10.7
0.300750	52.71	60.22	7.51	1000.0	9.000	N	10.5
0.413250	52.06	57.58	5.52	1000.0	9.000	N	10.3
0.525750	52.82	56.00	3.18	1000.0	9.000	L1	10.3
0.699000	51.79	56.00	4.21	1000.0	9.000	N	10.4
0.757500	52.09	56.00	3.91	1000.0	9.000	L1	10.4
0.771000	51.40	56.00	4.60	1000.0	9.000	N	10.4
0.807000	52.22	56.00	3.78	1000.0	9.000	L1	10.5
1.286250	49.49	56.00	6.51	1000.0	9.000	L1	10.5

Final Average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.528000	38.94	46.00	7.06	1000.0	9.000	N	10.2
0.564000	38.88	46.00	7.12	1000.0	9.000	N	10.3
0.600000	38.65	46.00	7.35	1000.0	9.000	N	10.3
0.636000	38.84	46.00	7.16	1000.0	9.000	N	10.4
0.676500	38.10	46.00	7.90	1000.0	9.000	N	10.4
0.703500	38.00	46.00	8.00	1000.0	9.000	N	10.4
0.753000	37.94	46.00	8.06	1000.0	9.000	N	10.4
0.818250	37.31	46.00	8.69	1000.0	9.000	N	10.4
1.286250	36.22	46.00	9.78	1000.0	9.000	L1	10.5
1.504500	34.32	46.00	11.68	1000.0	9.000	N	10.4

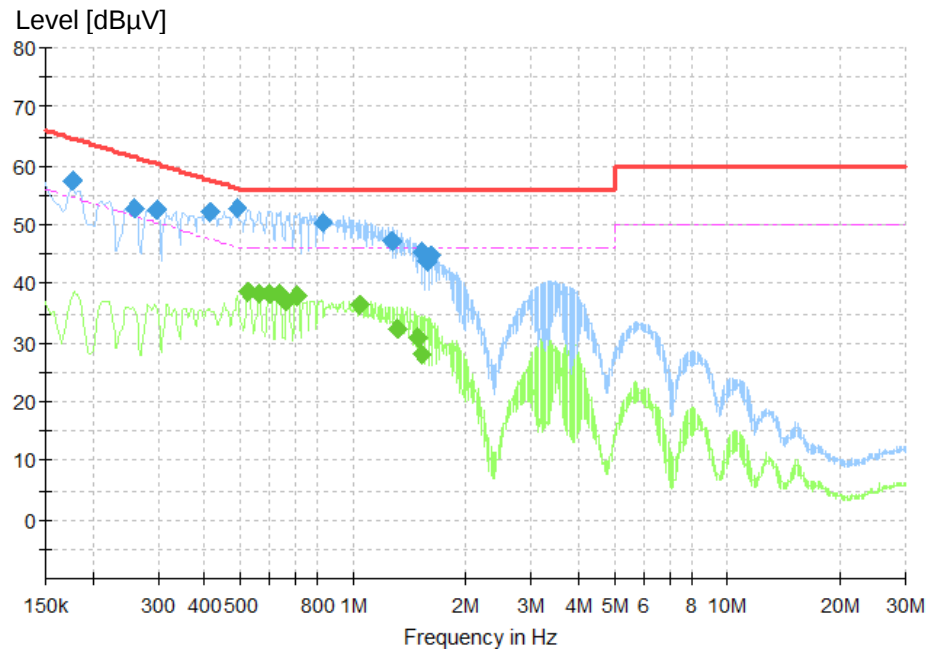
Figure 2: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L&N, Mode 2


Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.197250	57.91	63.73	5.81	1000.0	9.000	N	10.8
0.415500	49.72	57.54	7.82	1000.0	9.000	N	10.3
0.566250	50.55	56.00	5.45	1000.0	9.000	L1	10.3
0.735000	49.77	56.00	6.23	1000.0	9.000	N	10.4
0.867750	50.48	56.00	5.52	1000.0	9.000	L1	10.5
1.284000	47.81	56.00	8.19	1000.0	9.000	L1	10.5
1.574250	44.51	56.00	11.49	1000.0	9.000	N	10.5
1.626000	43.54	56.00	12.46	1000.0	9.000	N	10.5
1.664250	42.81	56.00	13.19	1000.0	9.000	N	10.5
1.891500	39.62	56.00	16.38	1000.0	9.000	N	10.5

Final Average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.528000	37.17	46.00	8.83	1000.0	9.000	N	10.2
0.564000	38.02	46.00	7.98	1000.0	9.000	N	10.3
0.600000	37.49	46.00	8.51	1000.0	9.000	N	10.3
0.633750	37.69	46.00	8.31	1000.0	9.000	N	10.3
0.676500	37.19	46.00	8.81	1000.0	9.000	N	10.4
0.703500	36.88	46.00	9.12	1000.0	9.000	N	10.4
0.746250	37.05	46.00	8.95	1000.0	9.000	N	10.4
0.856500	36.46	46.00	9.54	1000.0	9.000	N	10.4
1.360500	34.58	46.00	11.42	1000.0	9.000	N	10.4
1.504500	33.31	46.00	12.69	1000.0	9.000	N	10.4

Figure 3: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L&N, Mode 3


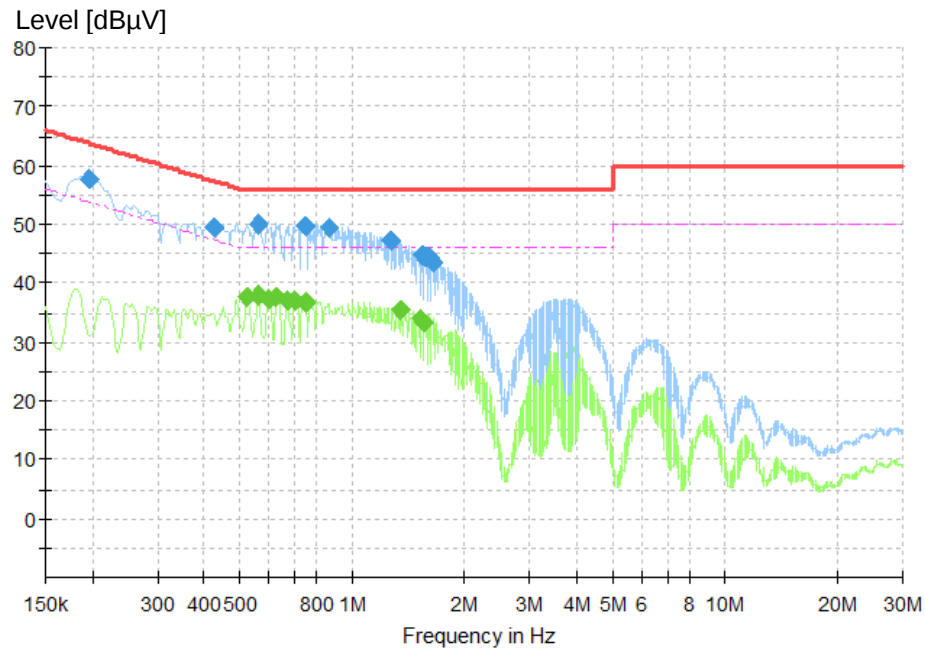
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.177000	57.39	64.63	7.24	1000.0	9.000	N	10.5
0.260250	52.63	61.42	8.79	1000.0	9.000	N	10.6
0.298500	52.53	60.28	7.75	1000.0	9.000	N	10.5
0.411000	52.03	57.63	5.60	1000.0	9.000	N	10.3
0.487500	52.70	56.21	3.51	1000.0	9.000	L1	10.3
0.825000	50.17	56.00	5.83	1000.0	9.000	N	10.4
1.277250	47.34	56.00	8.66	1000.0	9.000	L1	10.5
1.529250	45.45	56.00	10.55	1000.0	9.000	N	10.5
1.578750	43.89	56.00	12.11	1000.0	9.000	L1	10.3
1.617000	44.64	56.00	11.36	1000.0	9.000	L1	10.3

Final Average measurement result:

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.523500	38.45	46.00	7.55	1000.0	9.000	L1	10.3
0.559500	38.18	46.00	7.82	1000.0	9.000	L1	10.3
0.595500	38.35	46.00	7.65	1000.0	9.000	L1	10.3
0.633750	38.31	46.00	7.69	1000.0	9.000	N	10.3
0.663000	36.97	46.00	9.03	1000.0	9.000	N	10.4
0.708000	38.06	46.00	7.94	1000.0	9.000	N	10.4
1.043250	36.39	46.00	9.61	1000.0	9.000	L1	10.7
1.313250	32.34	46.00	13.66	1000.0	9.000	N	10.4
1.493250	30.97	46.00	15.03	1000.0	9.000	N	10.4
1.527000	27.93	46.00	18.07	1000.0	9.000	N	10.5

Figure 4: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L&N, Mode 4



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.197250	57.86	63.73	5.87	1000.0	9.000	N	10.8
0.426750	49.34	57.32	7.98	1000.0	9.000	N	10.3
0.557250	50.05	56.00	5.95	1000.0	9.000	L1	10.3
0.750750	49.83	56.00	6.17	1000.0	9.000	L1	10.4
0.863250	49.42	56.00	6.58	1000.0	9.000	L1	10.5
1.277250	47.13	56.00	8.87	1000.0	9.000	L1	10.5
1.531500	44.75	56.00	11.25	1000.0	9.000	N	10.5
1.578750	44.46	56.00	11.54	1000.0	9.000	N	10.5
1.614750	44.50	56.00	11.50	1000.0	9.000	N	10.5
1.653000	43.35	56.00	12.65	1000.0	9.000	N	10.5

Final Average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.523500	37.54	46.00	8.46	1000.0	9.000	N	10.2
0.559500	38.06	46.00	7.94	1000.0	9.000	N	10.3
0.595500	37.40	46.00	8.60	1000.0	9.000	N	10.3
0.629250	37.63	46.00	8.37	1000.0	9.000	N	10.3
0.672000	36.91	46.00	9.09	1000.0	9.000	N	10.4
0.699000	37.01	46.00	8.99	1000.0	9.000	N	10.4
0.748500	36.73	46.00	9.27	1000.0	9.000	N	10.4
1.351500	35.56	46.00	10.44	1000.0	9.000	N	10.4
1.529250	33.97	46.00	12.03	1000.0	9.000	N	10.5
1.565250	33.14	46.00	12.86	1000.0	9.000	N	10.5

5.2 Emission in the Frequency Range above 30 MHz

5.2.1 Radiated emission (30-1000 MHz)

Result:	Passed
----------------	---------------

Date of testing	: 2025-03-27
Test procedure	: FCC 47 CFR Part 15, Subpart B:2023, ICES-005:2018, ICES-003:2020, ANSI C63.4-2014 and CISPR 16-2-3
Product classification	: Class B
Frequency range	: 30 – 1000 MHz
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)
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: Warm lighting with the max. lighting output. Mode 2: Warm lighting with the min. lighting output. Mode 3: White lighting with the max. lighting output. Mode 4: White lighting with the min. lighting output.
Ambient condition	: Temperature: 22.5 °C; Relative humidity: 48.3 %
Expanded measurement uncertainty ($k=2$)	: 5.40 dB The minimum margin to the limit is 7.22 dB at 47.702500MHz. The margin is higher 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.

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Notes on following tables of radiated emission results and conversions:

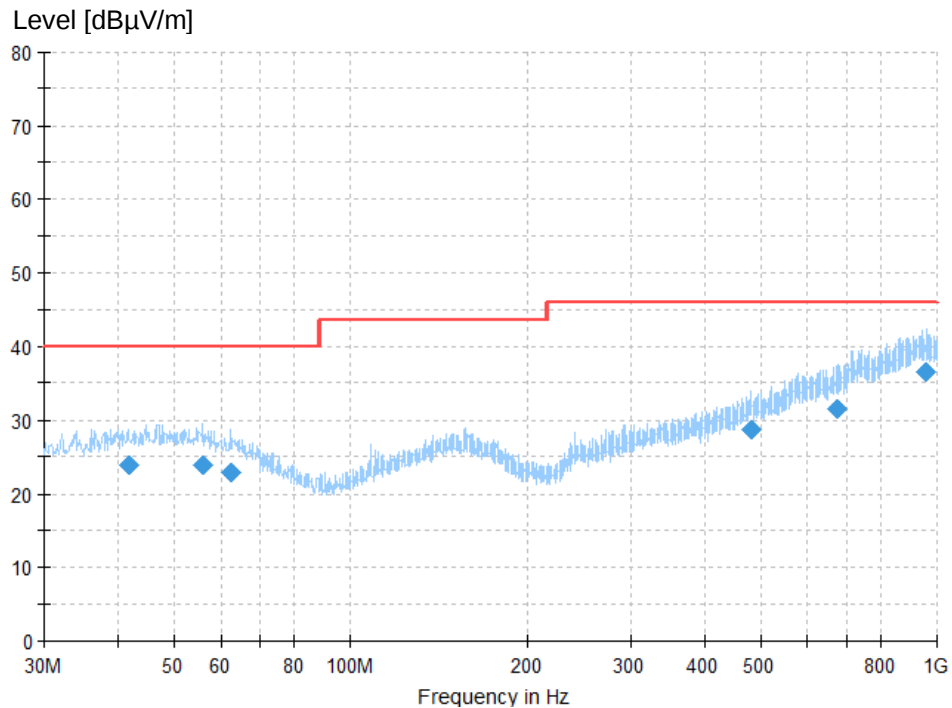
QuasiPeak (dB μ V/m): final measurement results by using quasi-peak detector

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)

Note: The class B limits of ICES-005:2018 is stricter than those FCC 47 CFR Part 15, Subpart B:2023 and ICES-003:2020 for 3 m test distance. Therefore, the former limits are used in following figures and tables.

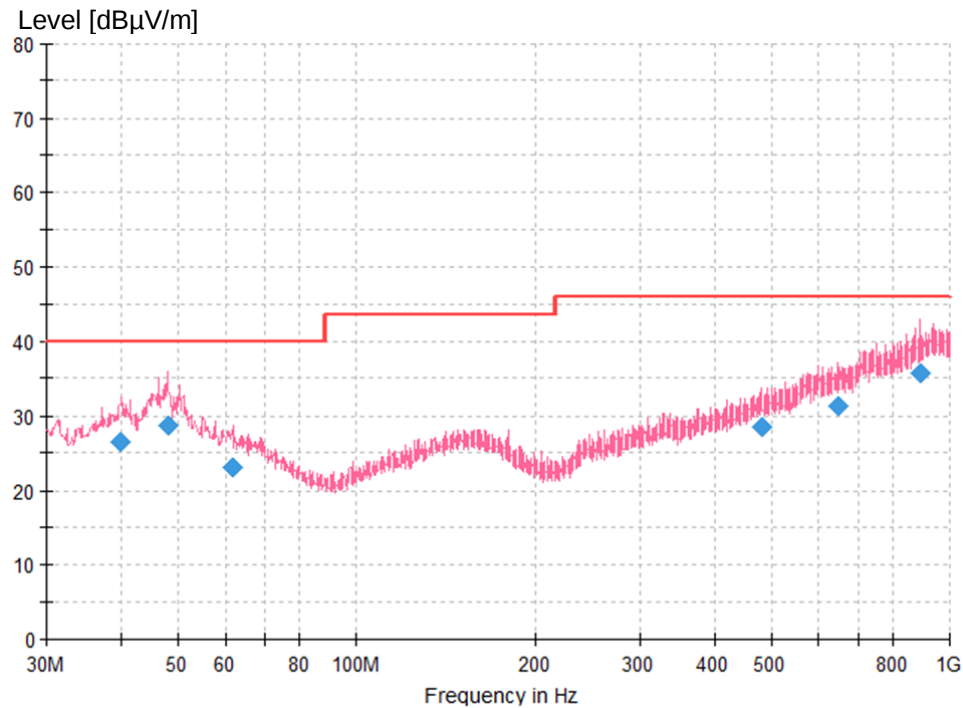
Figure 5: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization, Mode 1



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
41.761250	23.81	40.00	16.19	1000.0	120.000	200.0	H	-147.0
55.705000	23.85	40.00	16.15	1000.0	120.000	200.0	H	99.0
62.373750	22.89	40.00	17.11	1000.0	120.000	200.0	H	-119.0
481.898750	28.71	46.00	17.29	1000.0	120.000	200.0	H	-27.0
675.171250	31.58	46.00	14.42	1000.0	120.000	100.0	H	117.0
958.775000	36.43	46.00	9.57	1000.0	120.000	200.0	H	117.0

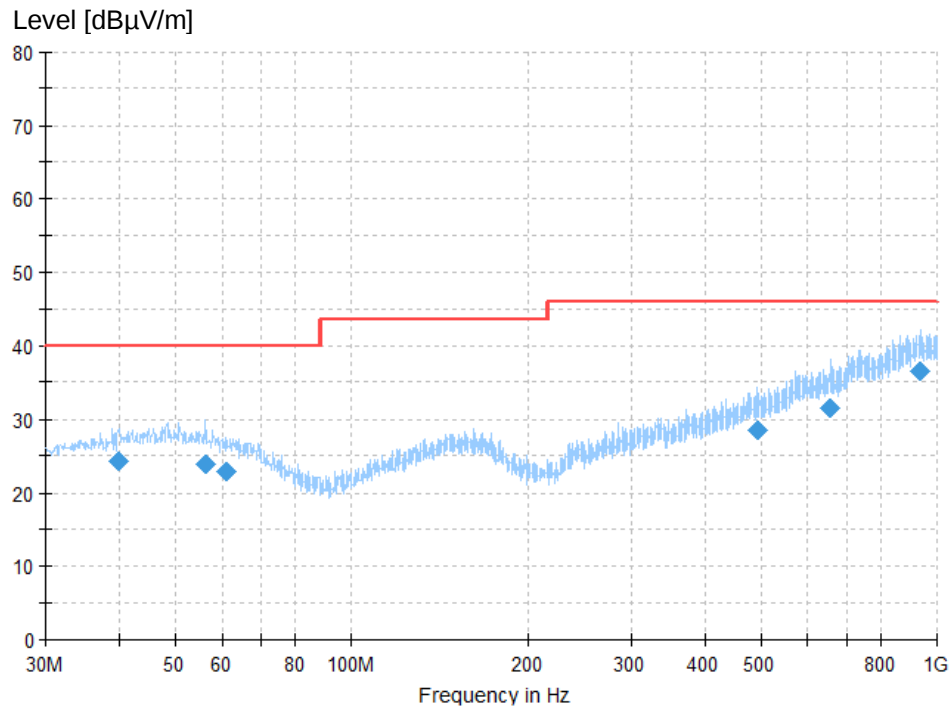
Figure 6: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization, Mode 1



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
40.063750	26.48	40.00	13.52	1000.0	120.000	100.0	V	-99.0
47.945000	28.78	40.00	11.22	1000.0	120.000	100.0	V	-17.0
61.646250	23.20	40.00	16.80	1000.0	120.000	200.0	V	-64.0
479.837500	28.63	46.00	17.37	1000.0	120.000	100.0	V	138.0
645.343750	31.35	46.00	14.65	1000.0	120.000	100.0	V	-170.0
887.237500	35.68	46.00	10.32	1000.0	120.000	200.0	V	88.0

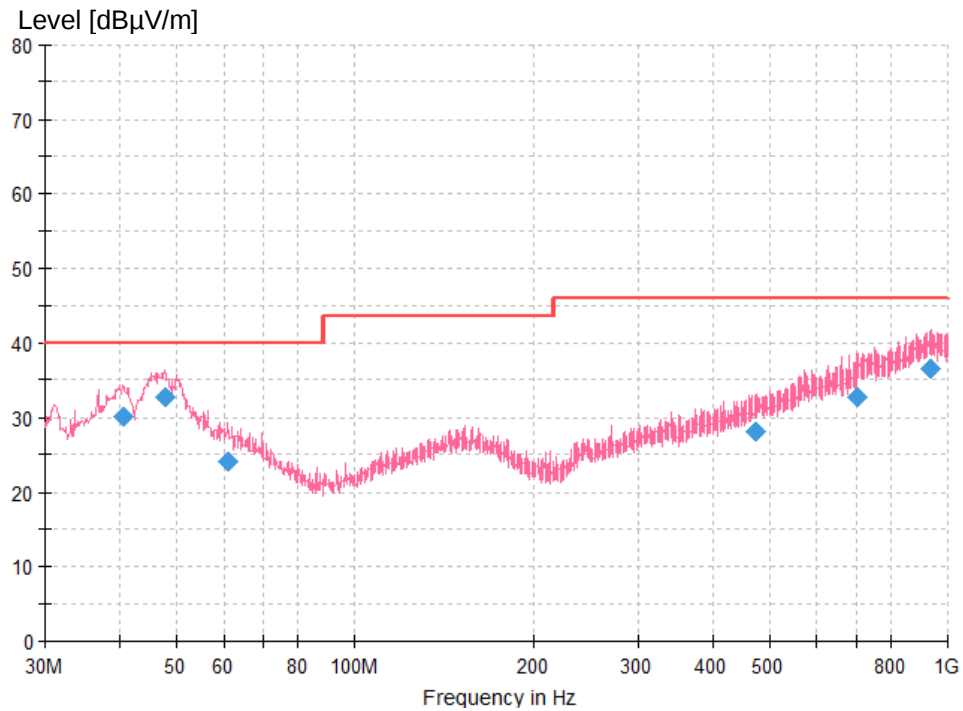
Figure 7: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization, Mode 2



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
39.942500	24.39	40.00	15.61	1000.0	120.000	200.0	H	8.0
56.190000	23.82	40.00	16.18	1000.0	120.000	100.0	H	-9.0
61.161250	23.01	40.00	16.99	1000.0	120.000	200.0	H	142.0
493.175000	28.63	46.00	17.37	1000.0	120.000	100.0	H	17.0
654.316250	31.50	46.00	14.50	1000.0	120.000	100.0	H	0.0
937.071250	36.52	46.00	9.48	1000.0	120.000	100.0	H	44.0

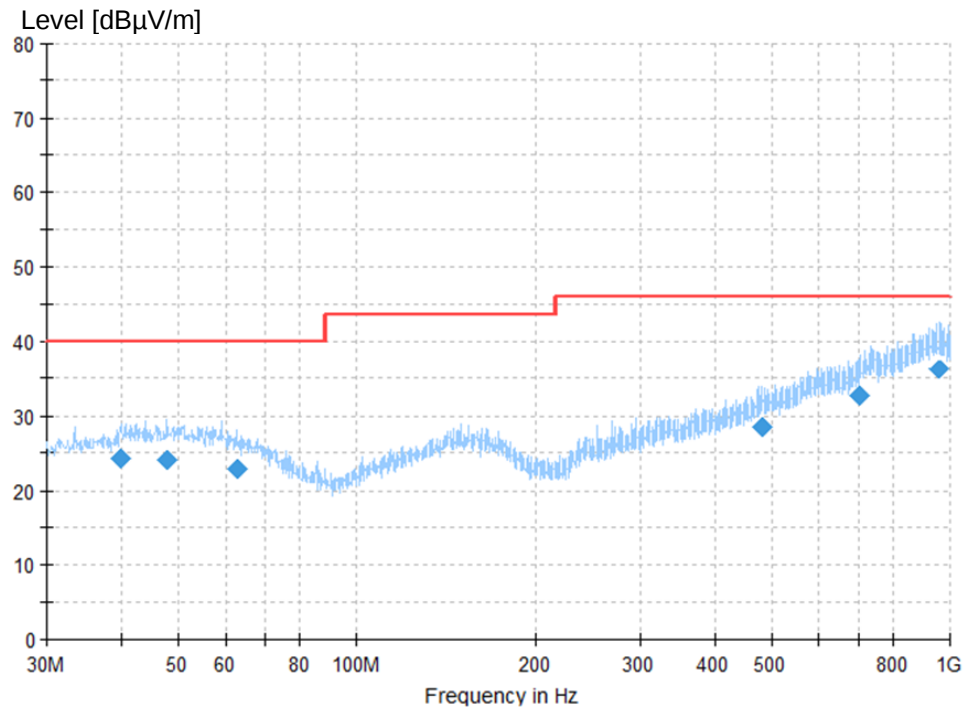
Figure 8: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization, Mode 2



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
40.548750	30.14	40.00	9.86	1000.0	120.000	100.0	V	-118.0
47.702500	32.78	40.00	7.22	1000.0	120.000	100.0	V	-118.0
60.918750	24.03	40.00	15.97	1000.0	120.000	200.0	V	-2.0
474.623750	28.10	46.00	17.90	1000.0	120.000	200.0	V	-180.0
703.786250	32.75	46.00	13.25	1000.0	120.000	100.0	V	119.0
934.040000	36.57	46.00	9.43	1000.0	120.000	100.0	V	-37.0

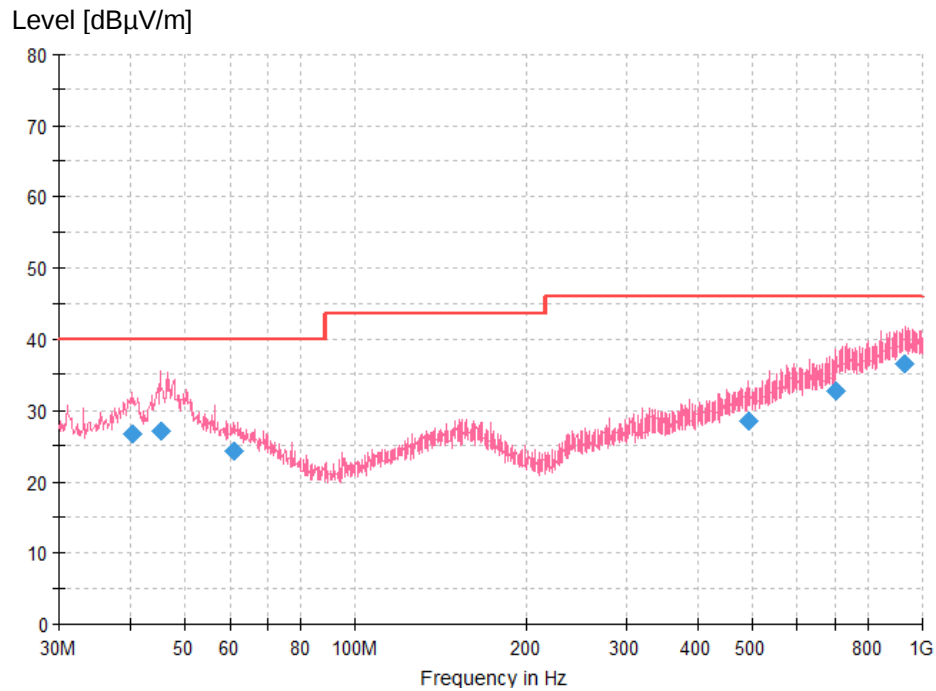
Figure 9: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization, Mode 3



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
39.942500	24.39	40.00	15.61	1000.0	120.000	200.0	H	25.0
47.823750	24.07	40.00	15.93	1000.0	120.000	200.0	H	152.0
62.616250	22.92	40.00	17.08	1000.0	120.000	100.0	H	-54.0
482.747500	28.60	46.00	17.40	1000.0	120.000	100.0	H	90.0
703.907500	32.79	46.00	13.21	1000.0	120.000	200.0	H	52.0
955.380000	36.22	46.00	9.78	1000.0	120.000	100.0	H	-145.0

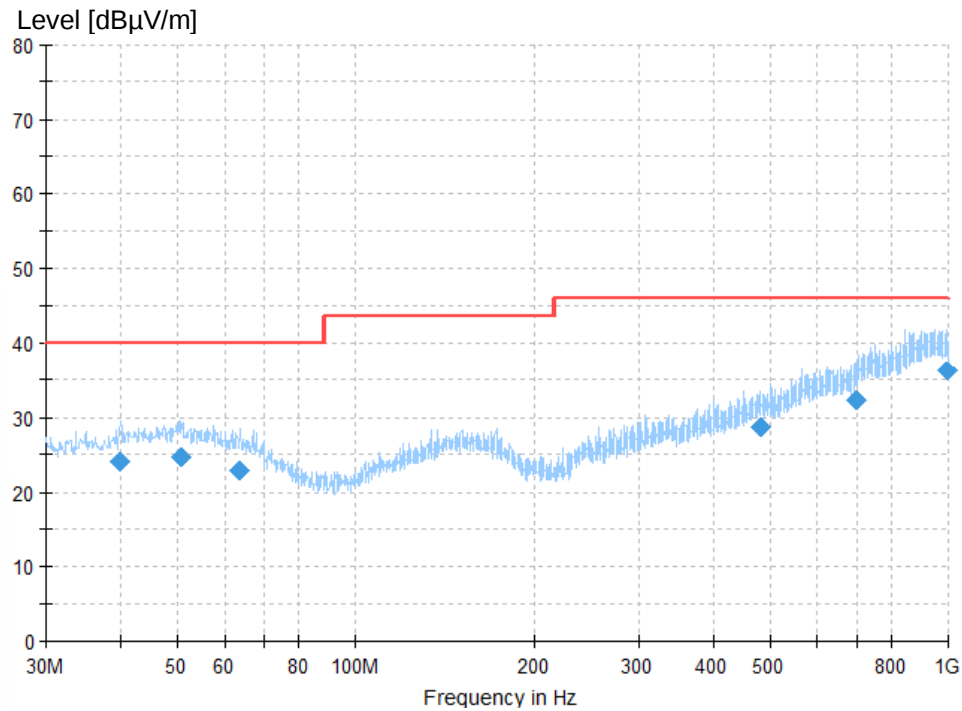
Figure 10: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization, Mode 3



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
40.427500	26.67	40.00	13.33	1000.0	120.000	100.0	V	-61.0
45.398750	27.17	40.00	12.83	1000.0	120.000	100.0	V	87.0
60.797500	24.30	40.00	15.70	1000.0	120.000	100.0	V	-161.0
492.811250	28.61	46.00	17.39	1000.0	120.000	100.0	V	-4.0
703.665000	32.70	46.00	13.30	1000.0	120.000	200.0	V	-61.0
929.068750	36.59	46.00	9.41	1000.0	120.000	100.0	V	31.0

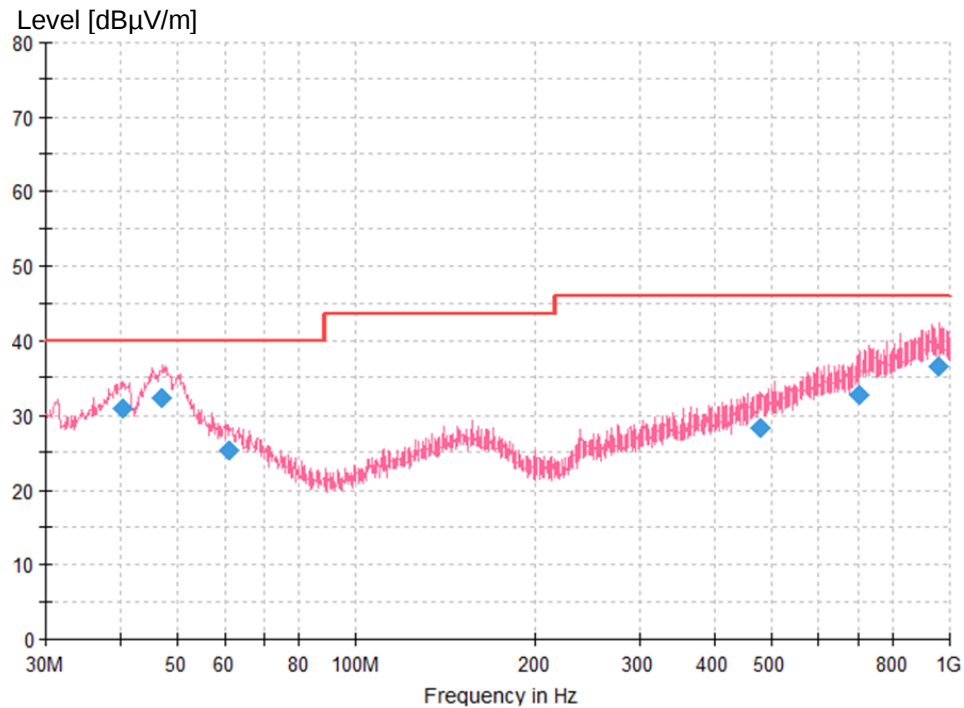
Figure 11: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization, Mode 4



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
40.063750	24.08	40.00	15.92	1000.0	120.000	200.0	H	-93.0
50.855000	24.69	40.00	15.31	1000.0	120.000	100.0	H	98.0
63.707500	22.85	40.00	17.15	1000.0	120.000	200.0	H	62.0
482.383750	28.69	46.00	17.31	1000.0	120.000	200.0	H	98.0
698.208750	32.31	46.00	13.69	1000.0	120.000	100.0	H	-72.0
991.876250	36.21	46.00	9.79	1000.0	120.000	200.0	H	6.0

Figure 12: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization, Mode 4



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
40.185000	30.77	40.00	9.23	1000.0	120.000	100.0	V	100.0
47.217500	32.29	40.00	7.71	1000.0	120.000	100.0	V	0.0
60.797500	25.18	40.00	14.82	1000.0	120.000	100.0	V	55.0
476.321250	28.25	46.00	17.75	1000.0	120.000	100.0	V	-36.0
703.907500	32.77	46.00	13.23	1000.0	120.000	100.0	V	-163.0
959.138750	36.43	46.00	9.57	1000.0	120.000	100.0	V	-145.0

5.2.2 Radiated Emission (1-18 GHz)

Result:
Passed

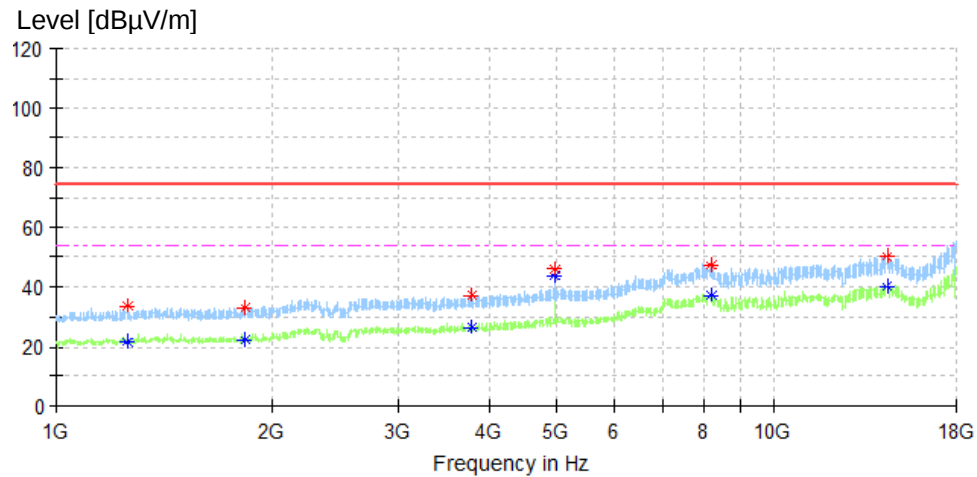
Date of testing	: 2025-03-27
Port	: Enclosure
Test procedure	: FCC 47 CFR Part 15, Subpart B:2023, ICES-005:2018, ICES-003:2020, ANSI C63.4-2014 and CISPR 16-2-3
Product classification	: Class B
Limit	: Peak limits (3 m distance): 1 – 18 GHz, 74 dB μ V/m Average limits (3 m distance): 1 – 18 GHz, 54 dB μ V/m
Frequency range	: 1 – 18 GHz (see Note)
Kind of test site	: Absorber-lined semi-anechoic chamber
Test distance	: 3 m
Test voltage	: AC 120 V, 60 Hz
Operational mode	: Mode 1: Warm lighting with the max. lighting output. Mode 2: Warm lighting with the min. lighting output. Mode 3: White lighting with the max. lighting output. Mode 4: White lighting with the min. lighting output.
Earthing	: No earthing
Ambient condition	: Temperature: 23.2 °C; Relative humidity: 52.8 %
Expanded measurement uncertainty (k=2)	: 5.17 dB (1 GHz~6 GHz) 5.12 dB (6 GHz~18 GHz) The minimum margin to the limit is 10.32 dB at 4952.500000 MHz. The margin is higher than expanded measurement uncertainty.

The radiated disturbance test was carried out in an absorber-lined semi-anechoic chamber. The test distance from the receiving antenna to the EUT is 3 m. The site voltage standing wave ratio (S_{VSWR}) of the absorber-lined 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 supporting table. And the supporting table was rotated 360° around, the receiving antenna was kept aiming at the EUT and its height 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. The final test was performed with peak detector and average detector at those critical frequencies during the preview test. In the following figure, “*” and “*” means measurement results with peak detector and average detector.

Note: The highest frequency in the EUT is 2480 MHz. According to FCC Part 15 subpart B §15.33 (b) (1) and ICES-003:2020 table 3, the upper frequency for radiated emission measurement is 18 GHz.

Figure 13: Spectral Diagrams, Radiated Emission, 1 GHz – 18 GHz, Horizontal polarization on mode 1



Final peak measurement result:

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1259.250000	33.32	74.00	40.68	100.0	H	-132.0	-19.3
1841.500000	32.61	74.00	41.39	100.0	H	113.0	-18.5
3784.812500	37.03	74.00	36.97	100.0	H	-148.0	-13.8
4952.500000	45.68	74.00	28.32	100.0	H	169.0	-11.2
8163.906250	47.41	74.00	26.59	200.0	H	1.0	-4.5
14392.281250	50.38	74.00	23.62	100.0	H	141.0	2.4

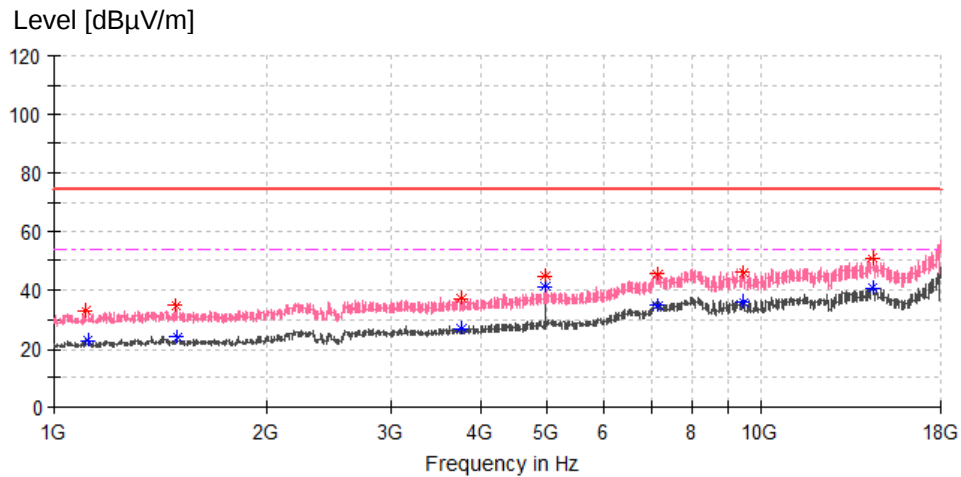
Final average measurement result:

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1259.250000	21.54	54.00	32.46	100.0	H	-132.0	-19.3
1841.500000	22.32	54.00	31.68	200.0	H	-152.0	-18.5
3784.812500	26.04	54.00	27.96	100.0	H	-148.0	-13.8
4952.500000	43.54	54.00	10.46	100.0	H	169.0	-11.2
8163.906250	36.83	54.00	17.17	200.0	H	1.0	-4.5
14392.281250	39.94	54.00	14.06	100.0	H	141.0	2.4

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Figure 14: Spectral Diagrams, Radiated Emission, 1 GHz – 18 GHz, Vertical polarization on mode 1



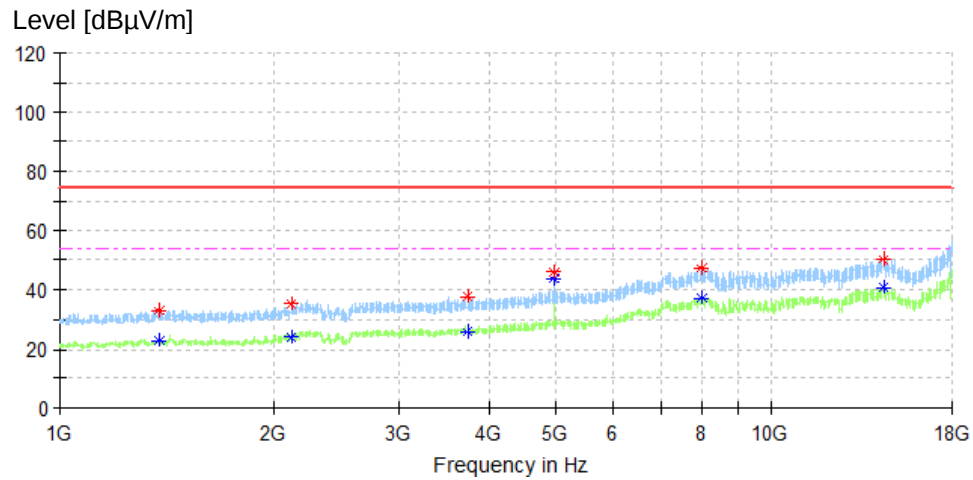
Final peak measurement result:

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1111.646875	32.79	74.00	41.21	100.0	V	-128.0	-19.9
1488.594375	34.42	74.00	39.58	200.0	V	31.0	-18.7
3763.704375	36.73	74.00	37.27	100.0	V	-15.0	-13.8
4952.500000	44.60	74.00	29.40	200.0	V	72.0	-11.2
7125.302500	45.56	74.00	28.44	100.0	V	-170.0	-5.4
9445.015000	45.86	74.00	28.14	100.0	V	-170.0	-4.5
14379.531250	50.75	74.00	23.25	100.0	V	-99.0	2.3

Final average measurement result:

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1111.646875	22.91	54.00	31.09	200.0	V	-40.0	-19.9
1488.594375	23.96	54.00	30.04	100.0	V	-114.0	-18.7
3763.704375	27.14	54.00	26.86	100.0	V	-15.0	-13.8
4952.500000	40.92	54.00	13.08	200.0	V	72.0	-11.2
7125.302500	34.47	54.00	19.53	100.0	V	-170.0	-5.4
9445.015000	35.79	54.00	18.21	100.0	V	-170.0	-4.5
14379.531250	40.36	54.00	13.64	100.0	V	-99.0	2.3

Figure 15: Spectral Diagrams, Radiated Emission, 1 GHz – 18 GHz, Horizontal polarization on mode 2



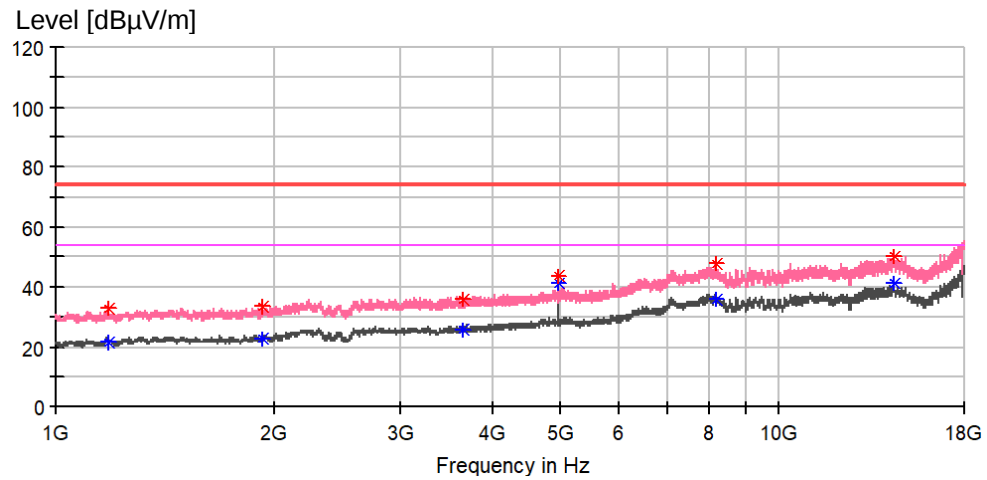
Final peak measurement result:

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1378.250000	32.99	74.00	41.01	200.0	H	-111.0	-18.7
2117.218750	35.02	74.00	38.98	100.0	H	126.0	-16.7
3740.187500	37.54	74.00	36.46	100.0	H	0.0	-13.8
4952.500000	45.84	74.00	28.16	100.0	H	168.0	-11.2
7976.375000	47.26	74.00	26.74	100.0	H	84.0	-3.6
14399.718750	50.43	74.00	23.57	100.0	H	-14.0	2.4

Final average measurement result:

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1378.250000	22.74	54.00	31.26	200.0	H	-111.0	-18.7
2117.218750	23.87	54.00	30.13	200.0	H	-180.0	-16.7
3740.187500	25.66	54.00	28.34	100.0	H	0.0	-13.8
4952.500000	43.57	54.00	10.43	100.0	H	168.0	-11.2
7976.375000	36.91	54.00	17.09	100.0	H	84.0	-3.6
14399.718750	40.64	54.00	13.36	100.0	H	-14.0	2.4

Figure 16: Spectral Diagrams, Radiated Emission, 1 GHz – 18 GHz, Vertical polarization on mode 2



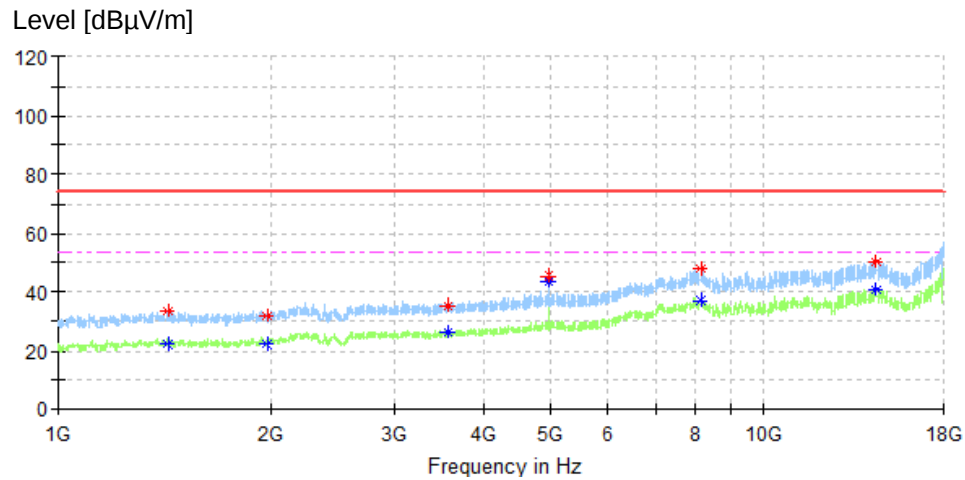
Final peak measurement result:

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1181.156250	32.75	74.00	41.25	200.0	V	-29.0	-19.6
1933.406250	33.16	74.00	40.84	100.0	V	165.0	-18.1
3657.843750	35.72	74.00	38.28	200.0	V	-71.0	-14.0
4952.500000	43.51	74.00	30.49	100.0	V	110.0	-11.2
8168.156250	47.76	74.00	26.24	100.0	V	12.0	-4.5
14400.781250	50.28	74.00	23.72	200.0	V	-140.0	2.4

Final average measurement result:

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1181.156250	21.70	54.00	32.30	100.0	V	124.0	-19.6
1933.406250	22.46	54.00	31.54	100.0	V	165.0	-18.1
3657.843750	25.89	54.00	28.11	100.0	V	40.0	-14.0
4952.500000	41.19	54.00	12.81	100.0	V	110.0	-11.2
8168.156250	35.82	54.00	18.18	100.0	V	12.0	-4.5
14400.781250	40.93	54.00	13.07	100.0	V	165.0	2.4

Figure 17: Spectral Diagrams, Radiated Emission, 1 GHz – 18 GHz, Horizontal polarization on mode 3



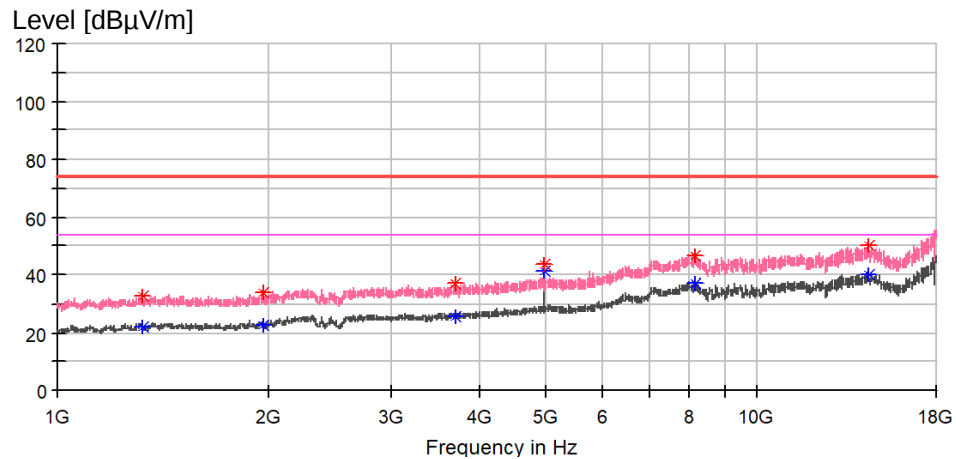
Final peak measurement result:

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1430.312500	33.66	74.00	40.34	100.0	H	-42.0	-18.6
1981.750000	31.87	74.00	42.13	100.0	H	44.0	-17.9
3576.031250	34.93	74.00	39.07	100.0	H	72.0	-14.2
4952.500000	45.60	74.00	28.40	100.0	H	168.0	-11.2
8125.656250	47.72	74.00	26.28	200.0	H	-155.0	-4.2
14373.156250	50.25	74.00	23.75	200.0	H	-100.0	2.3

Final average measurement result:

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1430.312500	22.36	54.00	31.64	200.0	H	-43.0	-18.6
1981.750000	22.20	54.00	31.80	200.0	H	-141.0	-17.9
3576.031250	26.16	54.00	27.84	100.0	H	72.0	-14.2
4952.500000	43.68	54.00	10.32	100.0	H	168.0	-11.2
8125.656250	36.84	54.00	17.16	100.0	H	-86.0	-4.2
14373.156250	40.43	54.00	13.57	200.0	H	-100.0	2.3

Figure 18: Spectral Diagrams, Radiated Emission, 1 GHz – 18 GHz, Vertical polarization on mode 3



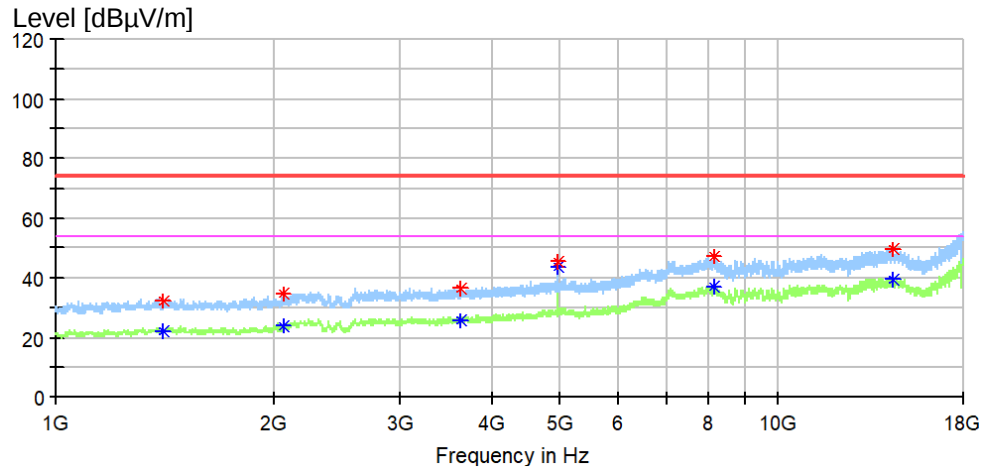
Final peak measurement result:

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1319.281250	33.05	74.00	40.95	200.0	V	-180.0	-18.9
1964.218750	33.74	74.00	40.26	100.0	V	-84.0	-18.0
3692.906250	36.82	74.00	37.18	200.0	V	42.0	-14.0
4952.500000	43.57	74.00	30.43	100.0	V	114.0	-11.2
8138.406250	46.69	74.00	27.31	200.0	V	57.0	-4.3
14396.531250	50.23	74.00	23.77	200.0	V	-112.0	2.4

Final average measurement result:

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1319.281250	21.99	54.00	32.01	100.0	V	142.0	-18.9
1964.218750	22.70	54.00	31.30	100.0	V	-84.0	-18.0
3692.906250	25.52	54.00	28.48	200.0	V	42.0	-14.0
4952.500000	41.17	54.00	12.83	100.0	V	114.0	-11.2
8138.406250	36.77	54.00	17.23	100.0	V	18.0	-4.3
14396.531250	40.06	54.00	13.94	100.0	V	101.0	2.4

Figure 19: Spectral Diagrams, Radiated Emission, 1 GHz – 18 GHz, Horizontal polarization on mode 4



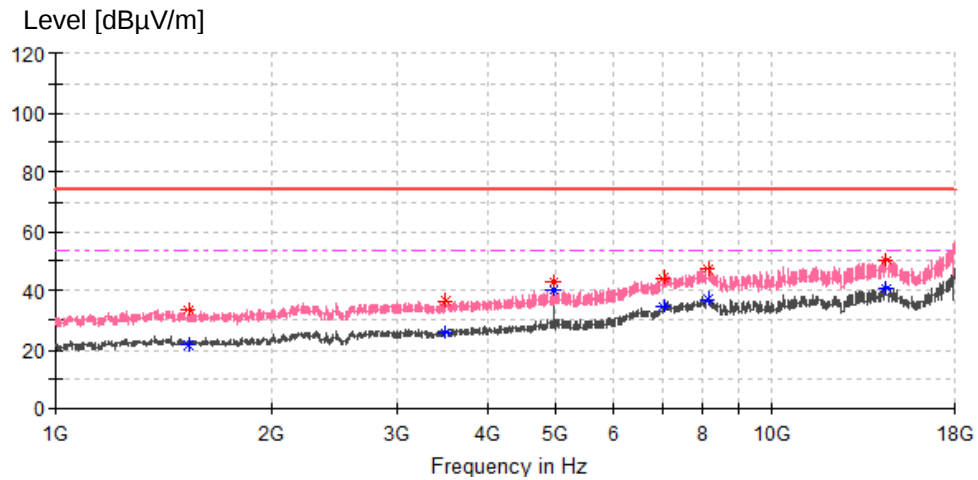
Final peak measurement result:

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1402.687500	32.27	74.00	41.73	100.0	H	-72.0	-18.7
2071.531250	34.76	74.00	39.24	100.0	H	-58.0	-17.2
3643.500000	36.66	74.00	37.34	200.0	H	-167.0	-14.0
4952.500000	45.59	74.00	28.41	100.0	H	165.0	-11.2
8142.656250	46.91	74.00	27.09	100.0	H	124.0	-4.3
14397.593750	49.27	74.00	24.73	200.0	H	57.0	2.4

Final average measurement result:

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1402.687500	22.21	54.00	31.79	100.0	H	-72.0	-18.7
2071.531250	24.12	54.00	29.88	100.0	H	-58.0	-17.2
3643.500000	25.86	54.00	28.14	200.0	H	-167.0	-14.0
4952.500000	43.67	54.00	10.33	100.0	H	165.0	-11.2
8142.656250	36.79	54.00	17.21	100.0	H	124.0	-4.3
14397.593750	39.63	54.00	14.37	200.0	H	57.0	2.4

Figure 20: Spectral Diagrams, Radiated Emission, 1 GHz – 18 GHz, Vertical polarization on mode 4



Final peak measurement result:

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1536.562500	33.25	74.00	40.75	200.0	V	-155.0	-18.9
3511.218750	36.49	74.00	37.51	100.0	V	68.0	-14.4
4952.500000	43.21	74.00	30.79	100.0	V	180.0	-11.2
7053.062500	44.26	74.00	29.74	100.0	V	152.0	-5.8
8132.031250	47.38	74.00	26.62	100.0	V	110.0	-4.3
14398.125000	50.44	74.00	23.56	100.0	V	179.0	2.4

Final average measurement result:

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1536.562500	21.74	54.00	32.26	100.0	V	96.0	-18.9
3511.218750	25.76	54.00	28.24	100.0	V	68.0	-14.4
4952.500000	40.05	54.00	13.95	100.0	V	180.0	-11.2
7053.062500	34.60	54.00	19.40	100.0	V	152.0	-5.8
8132.031250	36.94	54.00	17.06	100.0	V	110.0	-4.3
14398.125000	40.44	54.00	13.56	100.0	V	179.0	2.4

6 Photographs of the Test Set-Up

Refer to the test setup file.

7 List of Test and Measurement Instruments

Equip.no.	Equipment name	Model	Serial no.	Manufacturer	Cal. date	Due Date DD.MM.YYYY
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-S-032	EMI measurement software	EMC32-MEB (10.60.20)	100697	Rohde&Schwarz	N/A	N/A
EMC-C-373	Trilog broadband antenna	VULB 9168	1771	Schwarzbeck	2024-11-23	2025-11-23
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-C-001	3 m semi-anechoic chamber	SAC3	FJ129002	Frankonia	2023-12-03	2026-12-03
EMC-C-175	Preamplifier	EMC051845SE	980612	EMCI Taiwan	2024-07-24	2025-07-24
EMC-C-161	Spectrum analyser	FSV40	101258	Rohde&Schwarz	2024-07-15	2025-07-15
EMC-C-018	Double ridged horn antenna	BBHA 9120 D	9120D-434	Schwarzbeck	2021-03-24	2026-03-24

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End of test report