

Prüfbericht-Nr.: <i>Test report no.:</i>	CN26GEXR 001	Auftrags-Nr.: <i>Order no.:</i>	326169692	Seite 1 von 37 <i>Page 1 of 37</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	1288983	Auftragsdatum: <i>Order date:</i>	2026-01-19	
Auftraggeber: <i>Client:</i>	IKEA of Sweden AB Box 702, SE-343 81 Älmhult, Sweden			
Prüfgegenstand: <i>Test item:</i>	KOPPLA Socket			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	E2615-NA5W2U			
Auftrags-Inhalt: <i>Order content:</i>	TÜV Rheinland EMC service			
Prüfgrundlage: <i>Test specification:</i>	FCC 47 CFR Part 15, Subpart B:2024 Class B ICES-003:2020			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2026-02-04	Refer to the EUT photops file		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A004201142-001			
Prüfzeitraum: <i>Testing period:</i>	2026-02-27			
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>	Trancy Gong		genehmigt von: <i>authorized by:</i>	HeXiong Liu
Datum: <i>Date:</i>	2026-04-10		Ausstellungsdatum: <i>Issue date:</i>	2026-04-10
Stellung / Position:	Project engineer		Stellung / Position:	Authorizer
Sonstiges / <i>Other:</i>				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	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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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> |
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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.
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 115:2023, 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 115:2023, 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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Revision history of test report:

Report number	Issue date	Contents and reason for change if appropriate
CN26GEXR 001	2026-04-10	Initial release.

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1 Test Sites

1.1 Test Facilities

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

**Address: Workshop 14, North Half of Workshop 10 and Workshop 16, Pingqian (Taicang)
Modern Industrial Park, No. 525, Yuewang Lingang South Road, Shaxi, Taicang, Jiangsu,
China**

The test equipment used are 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 Manufacturer Information

Manufacturer: IKEA of Sweden AB
Address: Box 702, SE-343 81 Älmhult, Sweden
Country of origin: China

2.2 Product Function and Intended Use

The EUT (equipment under test) is an ordinary KOPPLA socket. For further information, refer to the user's manual.

2.3 Ratings and System Details

Single socket : 125 V ac, 60 Hz 15 A 1875 W (Max.)
Socket shared output : 15 A 1875 W (Max)
Single USB C : DC 5 V, 3 A; DC 9 V, 3 A; DC 12 V, 3 A; DC 15 V, 3 A;
DC 20 V, 2.25 A
USB C shared output : DC 5 V, 3 A; DC 9 V, 2.44 A; DC 12 V, 1.83 A;
DC 15 V, 1.46 A; DC 20 V, 1.10 A

2.4 Independent Operation Modes

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

The test modes: one incandescent light and the resistors were connected to EUT as loads, the detailed USB loads as follows.

Mode 1:	Matched resistors connected to Double USB power ports (DC 5 V/3 A, 15 W)
Mode 2:	Matched resistors connected to Double USB power ports (DC 20 V/1.10 A, 22 W)
Mode 3:	Matched resistors connected to Signal USB power port (DC 12 V/3 A, 36 W)
Mode 4:	Matched resistors connected to Signal USB power port (DC 20 V/2.25 A, 45 W)
Mode 5:	Matched resistors connected to Signal USB power port (DC 15 V/3 A, 45 W)

2.5 Description of interconnecting cables

None.

2.6 Noise Generating and Noise Suppressing Parts

Refer to the circuit diagram for further information.

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

The highest frequency used in the EUT is 70 kHz.

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2.8 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.

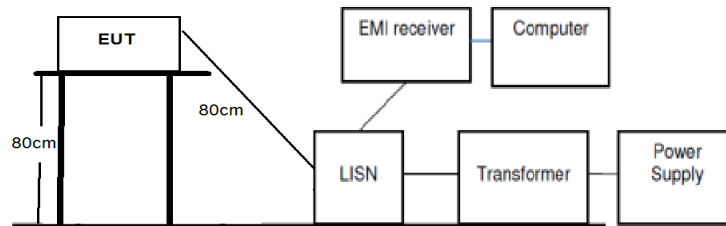
Refer to the related paragraph of this report.

The sequence of testing:

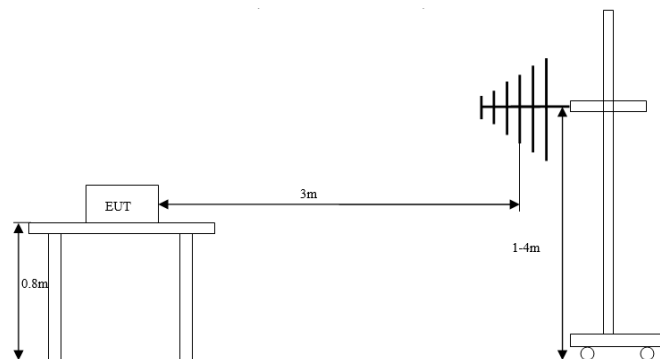
1. Conducted emission test was performed on 2026-02-27.
2. Radiated emission test was performed on 2026-02-27.

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 tests.

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3.3 Test Software

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

3.4 Special Accessories and Auxiliary Equipment

During test, the EUT was connected to matched resistors and incandescent light as loads which is specified by the manufacturer.

3.5 Countermeasures to achieve EMC Compliance

During tests, no special countermeasure was 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	: 2026-02-27	
Test procedure	: FCC 47 CFR Part 15, Subpart B:2024, 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	
Supply voltage	: AC 120 V, 60 Hz	
Operational mode	: Modes 1-5 defined in clause 2.3.	
Ambient condition	: Temperature: 21.4 °C; Relative humidity: 38.2 %	
Expanded measurement uncertainty ($k=2$)	: 2.33 dB The minimum margin to the limit is 7.14 dB at 0.150000 MHz. The margin is higher than expanded measurement uncertainty.	
Test setup photo	: Photograph 1 of Attachment 3	

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, red “*” means Quasi-Peak Value and blue “*” 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

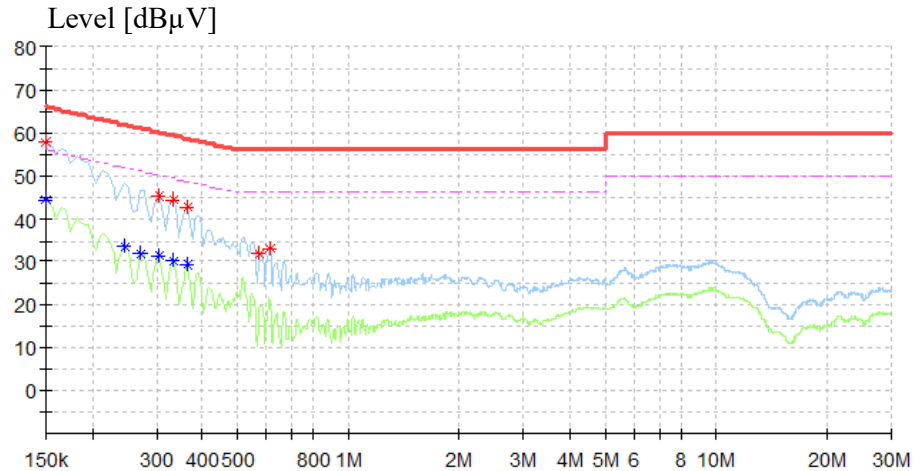
Transd (dB): transducer factor including cable loss, insertion loss of artificial mains network and gain of pre-amplifier (if used)

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

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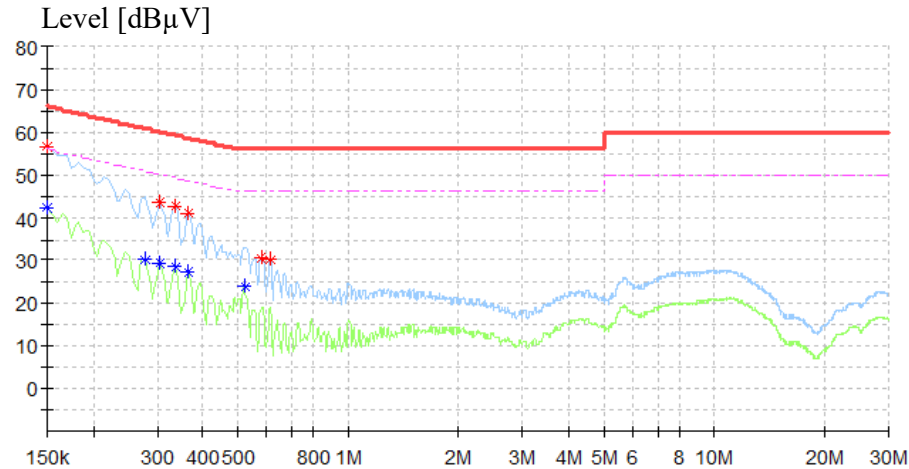
Figure 1: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, mode 1, L line



Final quasi-peak and average measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line
0.150000	---	44.55	56.00	11.45	L1
0.150000	57.82	---	66.00	8.18	L1
0.246750	---	33.67	51.87	18.20	L1
0.273750	---	32.07	51.00	18.94	L1
0.305250	45.35	---	60.10	14.75	L1
0.305250	---	31.52	50.10	18.58	L1
0.332250	---	30.25	49.40	19.14	L1
0.332250	44.48	---	59.40	14.91	L1
0.363750	42.70	---	58.64	15.94	L1
0.363750	---	29.44	48.64	19.20	L1
0.575250	32.06	---	56.00	23.94	L1
0.611250	33.08	---	56.00	22.92	L1

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



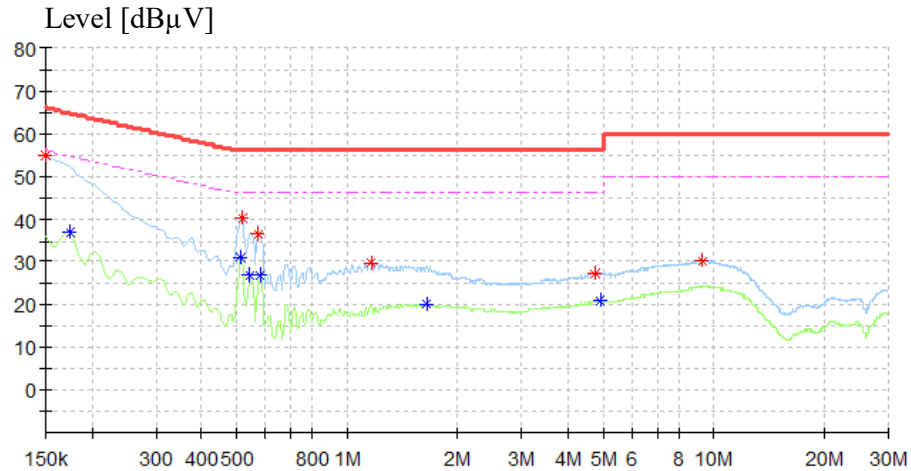
Final quasi-peak and average measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line
0.150000	56.38	---	66.00	9.62	N
0.150000	---	42.52	56.00	13.48	N
0.278250	---	30.27	50.87	20.60	N
0.305250	43.47	---	60.10	16.63	N
0.305250	---	29.44	50.10	20.65	N
0.336750	42.73	---	59.28	16.55	N
0.336750	---	28.31	49.28	20.97	N
0.363750	---	27.13	48.64	21.51	N
0.363750	40.91	---	58.64	17.73	N
0.521250	---	23.89	46.00	22.11	N
0.579750	30.68	---	56.00	25.32	N
0.611250	30.06	---	56.00	25.94	N

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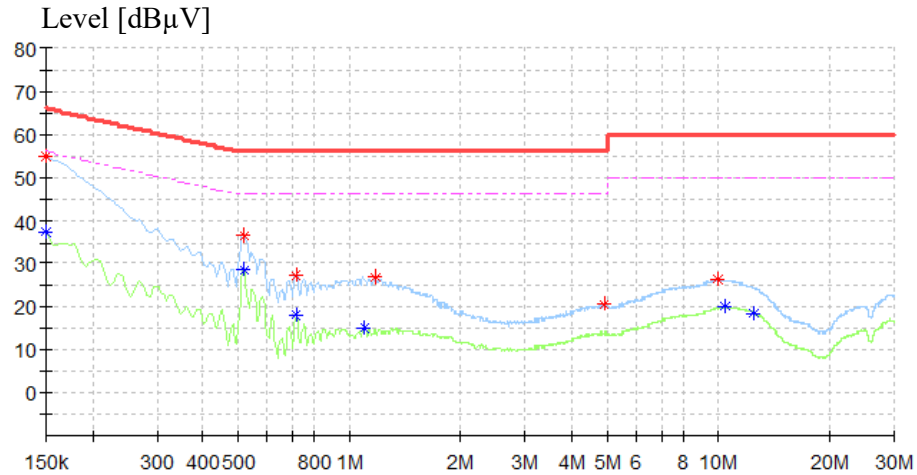
Figure 3: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, mode 2, L line



Final quasi-peak and average measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line
0.150000	54.68	---	66.00	11.32	L1
0.174750	---	36.79	54.73	17.94	L1
0.512250	---	31.16	46.00	14.84	L1
0.516750	40.03	---	56.00	15.97	L1
0.543750	---	26.77	46.00	19.23	L1
0.575250	36.29	---	56.00	19.71	L1
0.579750	---	26.71	46.00	19.29	L1
1.155750	29.90	---	56.00	26.10	L1
1.650750	---	20.30	46.00	25.70	L1
4.724250	27.30	---	56.00	28.70	L1
4.931250	---	20.94	46.00	25.06	L1
9.350250	30.36	---	60.00	29.64	L1

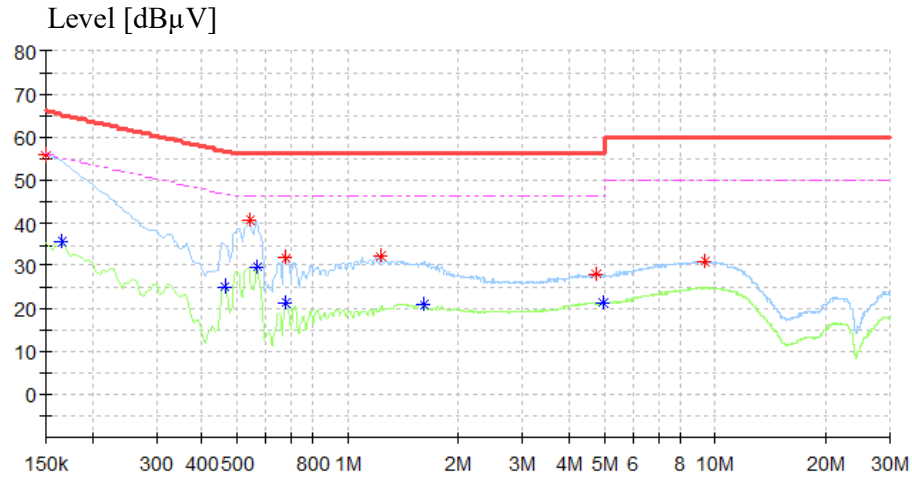
Figure 4: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, mode 2, N line



Final quasi-peak and average measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line
0.150000	54.87	---	66.00	11.13	N
0.150000	---	37.11	56.00	18.90	N
0.516750	36.65	---	56.00	19.35	N
0.516750	---	28.36	46.00	17.64	N
0.714750	27.41	---	56.00	28.59	N
0.719250	---	17.88	46.00	28.12	N
1.097250	---	15.25	46.00	30.75	N
1.169250	26.96	---	56.00	29.04	N
4.890750	20.62	---	56.00	35.38	N
10.002750	26.28	---	60.00	33.72	N
10.443750	---	19.94	50.00	30.06	N
12.432750	---	18.64	50.00	31.36	N

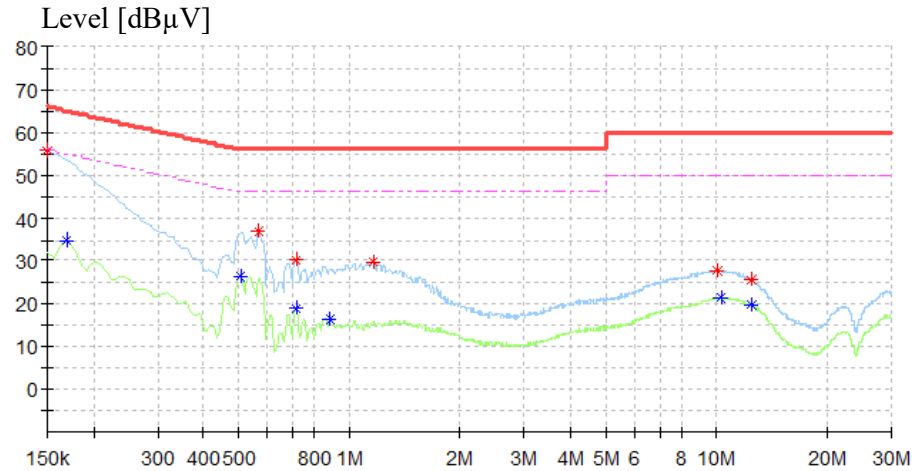
Figure 5: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, mode 3, L line



Final quasi-peak and average measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line
0.150000	55.73	---	66.00	10.27	L1
0.165750	---	35.57	55.17	19.60	L1
0.462750	---	25.14	46.64	21.50	L1
0.539250	40.54	---	56.00	15.46	L1
0.566250	---	29.58	46.00	16.42	L1
0.674250	31.82	---	56.00	24.18	L1
0.678750	---	21.47	46.00	24.53	L1
1.232250	32.23	---	56.00	23.77	L1
1.614750	---	21.15	46.00	24.85	L1
4.724250	28.15	---	56.00	27.85	L1
4.944750	---	21.60	46.00	24.40	L1
9.440250	31.12	---	60.00	28.88	L1

Figure 6: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, mode 3, N line



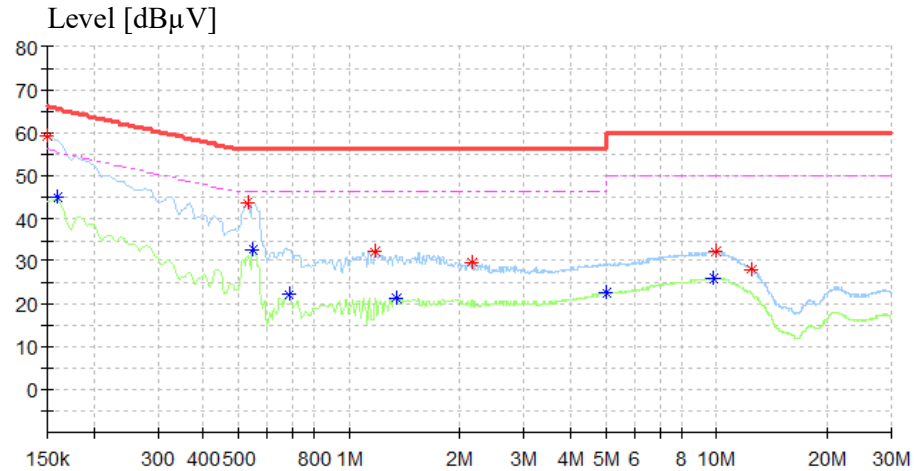
Final quasi-peak and average measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line
0.150000	55.64	---	66.00	10.36	N
0.170250	---	34.62	54.95	20.33	N
0.503250	---	26.61	46.00	19.39	N
0.566250	36.85	---	56.00	19.15	N
0.714750	30.08	---	56.00	25.92	N
0.714750	---	18.72	46.00	27.28	N
0.890250	---	16.28	46.00	29.72	N
1.160250	29.92	---	56.00	26.08	N
10.061250	27.78	---	60.00	32.22	N
10.268250	---	21.35	50.00	28.65	N
12.450750	25.75	---	60.00	34.25	N
12.450750	---	19.75	50.00	30.25	N

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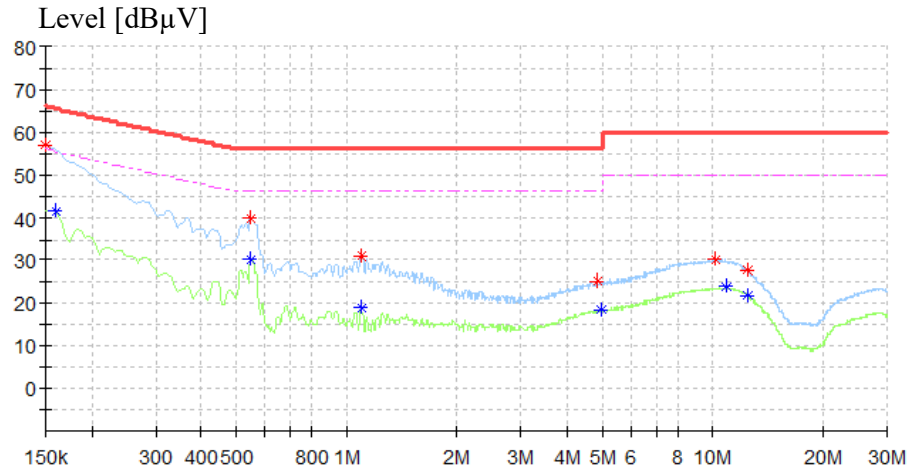
Figure 7: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, mode 4, L line



Final quasi-peak and average measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line
0.150000	58.86	---	66.00	7.14	L1
0.161250	---	44.79	55.40	10.61	L1
0.530250	43.75	---	56.00	12.25	L1
0.548250	---	32.72	46.00	13.28	L1
0.683250	---	22.06	46.00	23.94	L1
1.178250	32.45	---	56.00	23.55	L1
1.340250	---	21.46	46.00	24.54	L1
2.159250	29.97	---	56.00	26.03	L1
4.998750	---	22.47	46.00	23.53	L1
9.885750	---	26.08	50.00	23.92	L1
9.926250	32.12	---	60.00	27.88	L1
12.423750	28.12	---	60.00	31.88	L1

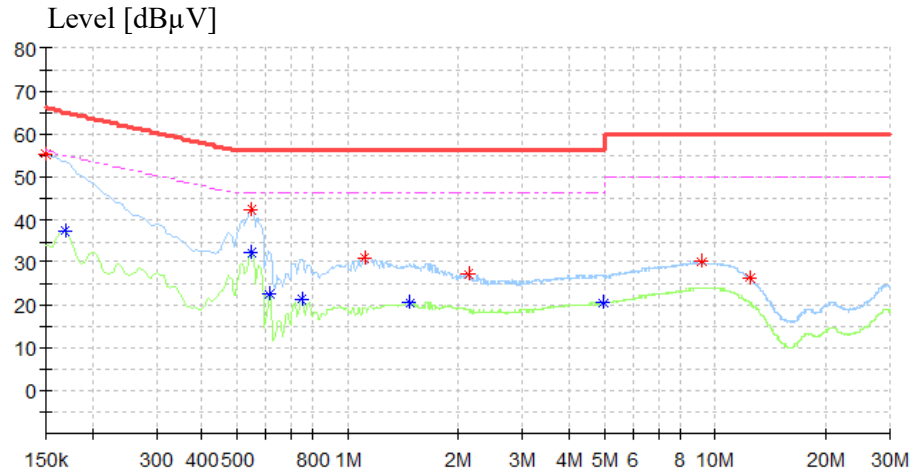
Figure 8: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, mode 4, N line



Final quasi-peak and average measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line
0.150000	56.88	---	66.00	9.12	N
0.161250	---	41.64	55.40	13.76	N
0.548250	39.68	---	56.00	16.32	N
0.548250	---	30.06	46.00	15.94	N
1.097250	31.00	---	56.00	25.00	N
1.097250	---	18.89	46.00	27.11	N
4.859250	25.25	---	56.00	30.75	N
4.962750	---	18.43	46.00	27.57	N
10.236750	30.16	---	60.00	29.84	N
10.902750	---	23.80	50.00	26.20	N
12.405750	---	21.93	50.00	28.07	N
12.428250	27.80	---	60.00	32.20	N

Figure 9: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, mode 5, L line



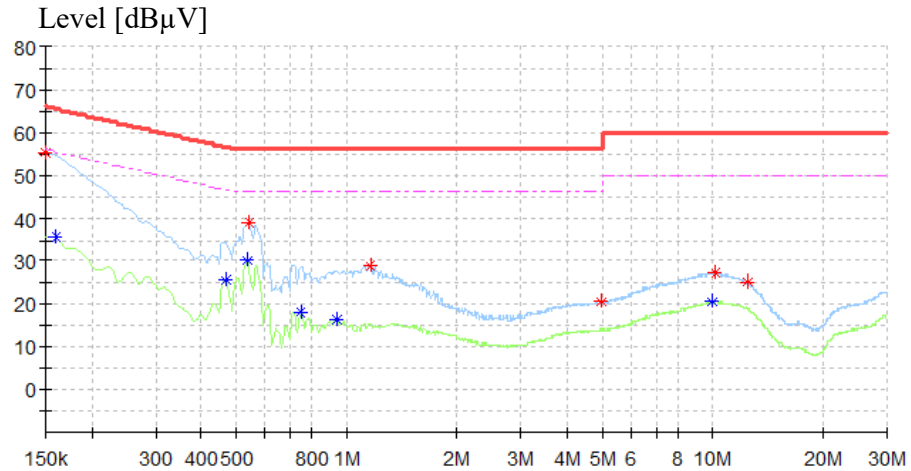
Final quasi-peak and average measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line
0.150000	55.11	---	66.00	10.89	L1
0.170250	---	37.50	54.95	17.45	L1
0.548250	42.22	---	56.00	13.78	L1
0.548250	---	32.34	46.00	13.66	L1
0.611250	---	22.53	46.00	23.47	L1
0.746250	---	21.47	46.00	24.53	L1
1.106250	30.90	---	56.00	25.10	L1
1.475250	---	20.75	46.00	25.25	L1
2.123250	27.07	---	56.00	28.93	L1
4.976250	---	20.57	46.00	25.43	L1
9.179250	30.11	---	60.00	29.89	L1
12.410250	26.31	---	60.00	33.69	L1

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Figure 10: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, mode 5, N line



Final quasi-peak and average measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line
0.150000	55.32	---	66.00	10.68	N
0.161250	---	35.68	55.40	19.72	N
0.467250	---	25.50	46.56	21.06	N
0.534750	---	30.05	46.00	15.95	N
0.539250	38.89	---	56.00	17.11	N
0.750750	---	18.10	46.00	27.90	N
0.935250	---	16.21	46.00	29.79	N
1.160250	29.12	---	56.00	26.88	N
4.935750	20.60	---	56.00	35.40	N
10.011750	---	20.52	50.00	29.48	N
10.241250	27.11	---	60.00	32.89	N
12.482250	25.00	---	60.00	35.00	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	: 2026-02-27
Test procedure	: FCC 47 CFR Part 15, Subpart B:2024, ICES-003:2020, 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	: Modes 1-5 defined in clause 2.3.
Ambient condition	: Temperature: 21.4 °C; Relative humidity: 38.2 %
Expanded measurement uncertainty ($k=2$)	: 5.40 dB The minimum margin to the limit is 6.9 dB at 31.212500 MHz. The margin is higher than expanded measurement uncertainty.
Test setup photo	: Photograph 2 of Attachment 3

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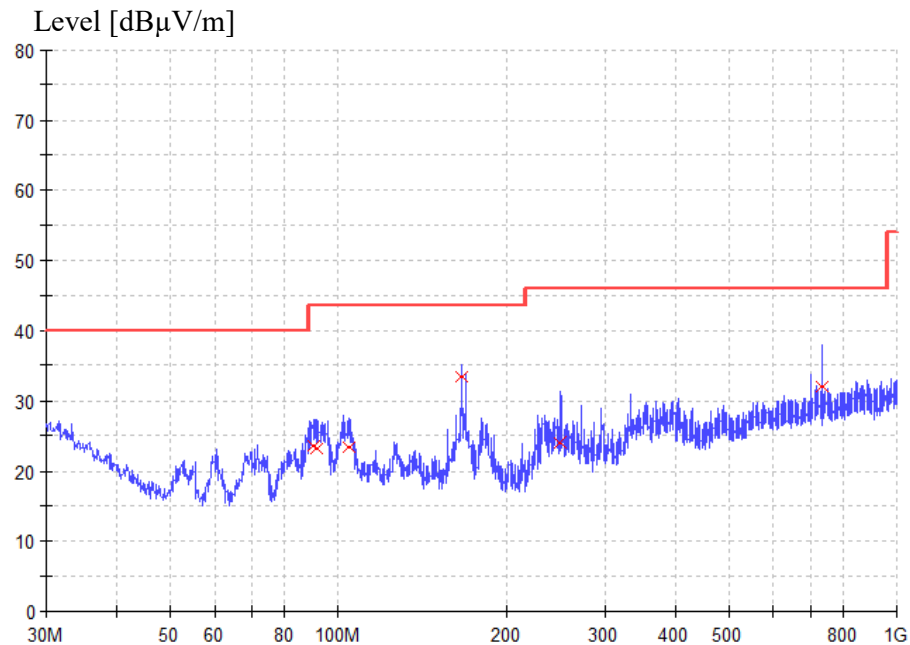
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Note 1: The highest frequency in the EUT is less than 108 MHz. According to FCC Part 15 subpart B §15.33 (b) (1), the upper frequency for radiated emission measurement is 1000 MHz.

Note 2: The class B limits of FCC 47 CFR Part 15, Subpart B:2024 is stricter than those of ICES-003:2020 for 3 m test distance. Therefore, the former limits are used in following figures and tables.

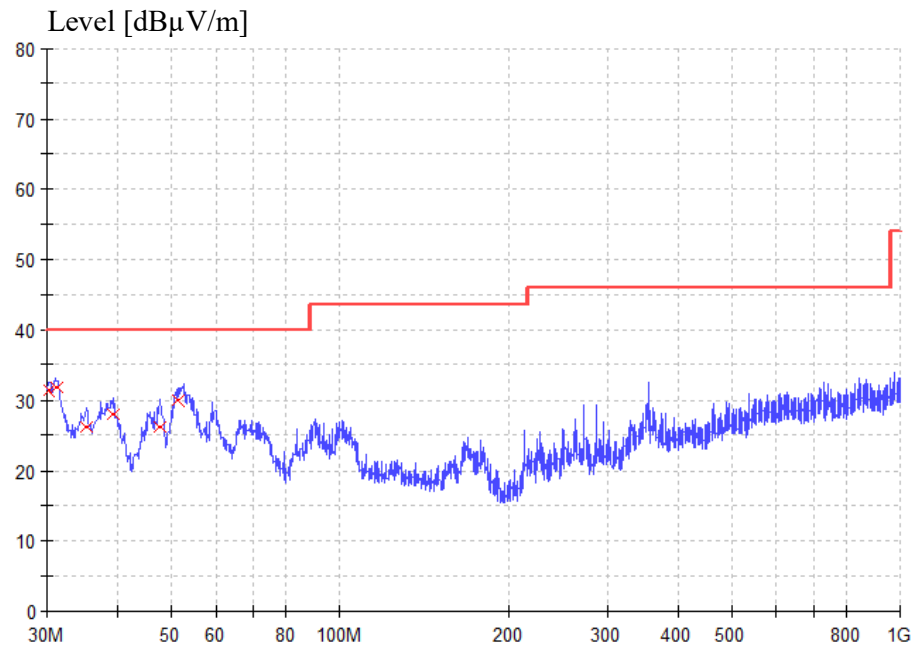
Figure 11: Spectral diagrams, radiated emission, 30 MHz – 1000 MHz, mode 1, Horizontal polarization



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)
90.261250	23.7	120.000	360.0	H	115.0	15.4	19.8	43.5
91.352500	23.1	120.000	330.0	H	-135.0	15.6	20.4	43.5
104.447500	23.3	120.000	110.0	H	112.0	18.0	20.2	43.5
166.042500	33.4	120.000	143.0	H	11.0	16.5	10.1	43.5
249.341250	24.0	120.000	202.0	H	-72.0	19.3	22.0	46.0
732.158750	32.1	120.000	135.0	H	2.0	27.1	13.9	46.0

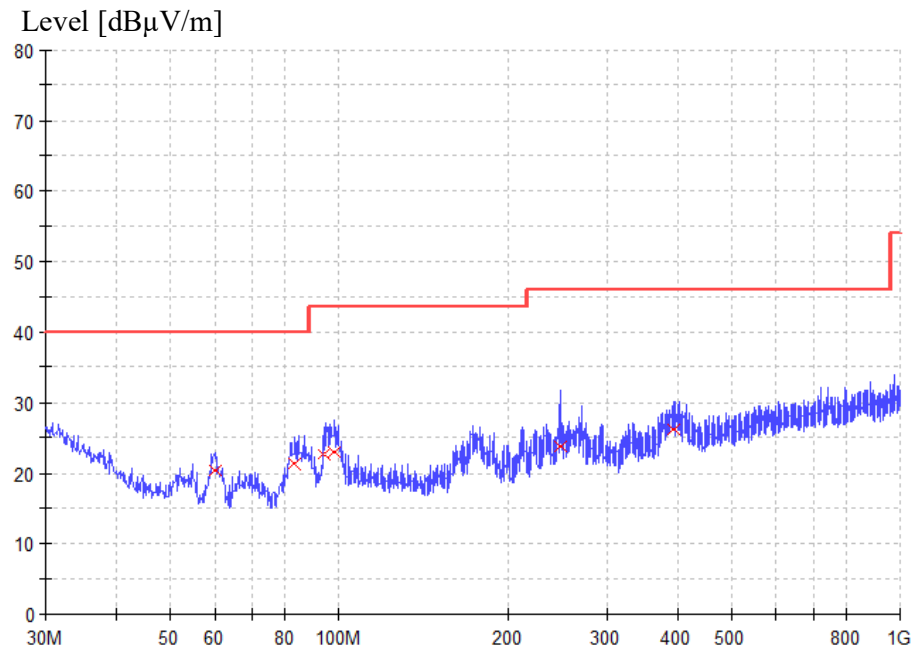
Figure 12: Spectral diagrams, radiated emission, 30 MHz – 1000 MHz, mode 1, Vertical polarization



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	31.3	120.000	274.0	V	69.0	25.3	8.7	40.0
31.091250	31.9	120.000	316.0	V	20.0	24.8	8.1	40.0
35.213750	26.2	120.000	228.0	V	48.0	22.5	13.8	40.0
39.336250	28.0	120.000	337.0	V	147.0	20.2	12.0	40.0
47.702500	26.3	120.000	206.0	V	27.0	15.8	13.7	40.0
51.582500	29.9	120.000	384.0	V	154.0	14.2	10.1	40.0

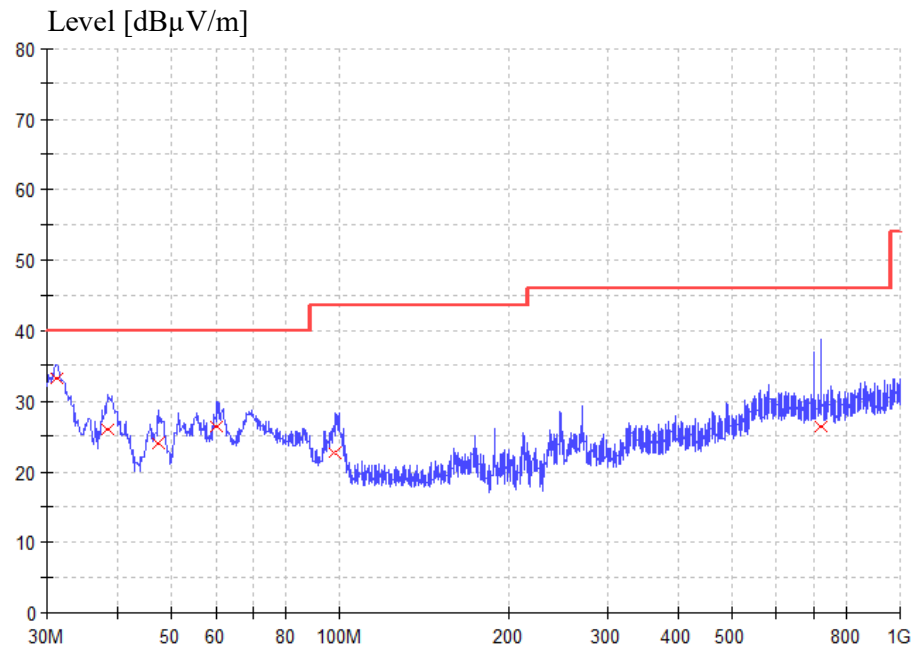
Figure 13: Spectral diagrams, radiated emission, 30 MHz – 1000 MHz, mode 2, Horizontal polarization



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)
59.948750	20.3	120.000	279.0	H	-14.0	12.7	19.7	40.0
83.350000	21.3	120.000	118.0	H	104.0	14.2	18.7	40.0
94.383750	22.7	120.000	267.0	H	-161.0	16.2	20.8	43.5
97.657500	23.0	120.000	109.0	H	-84.0	16.9	20.5	43.5
247.280000	23.8	120.000	372.0	H	167.0	19.2	22.2	46.0
394.235000	26.2	120.000	228.0	H	154.0	22.9	19.8	46.0

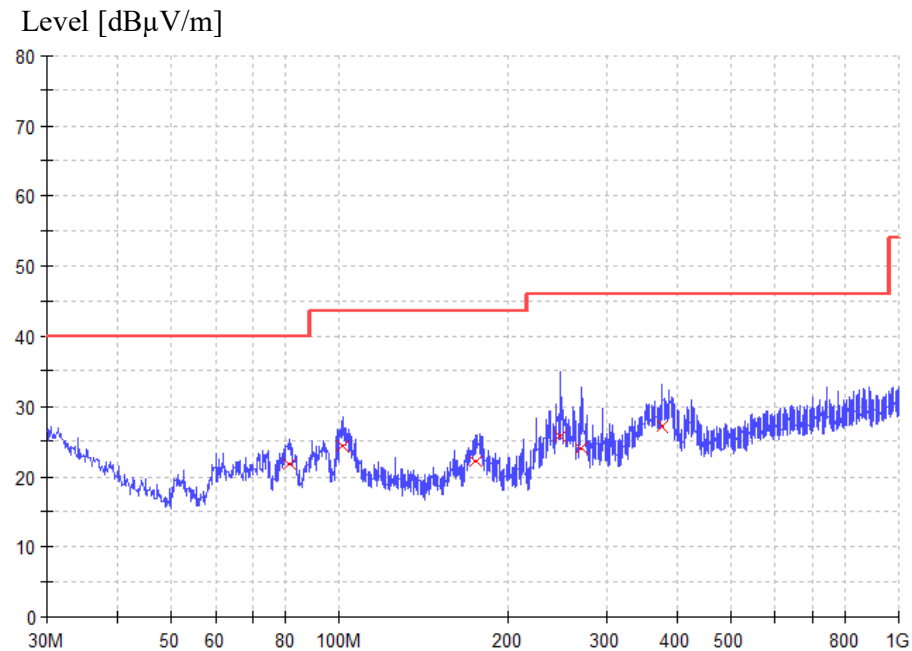
Figure 14: Spectral diagrams, radiated emission, 30 MHz – 1000 MHz, mode 2, Vertical polarization



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)
31.212500	33.1	120.000	323.0	V	97.0	24.8	6.9	40.0
38.608750	26.0	120.000	322.0	V	57.0	20.6	14.0	40.0
47.581250	24.2	120.000	241.0	V	-10.0	15.8	15.8	40.0
60.191250	26.4	120.000	258.0	V	-172.0	12.6	13.6	40.0
97.778750	22.6	120.000	129.0	V	-40.0	16.9	20.9	43.5
721.003750	26.4	120.000	260.0	V	-178.0	28.3	19.6	46.0

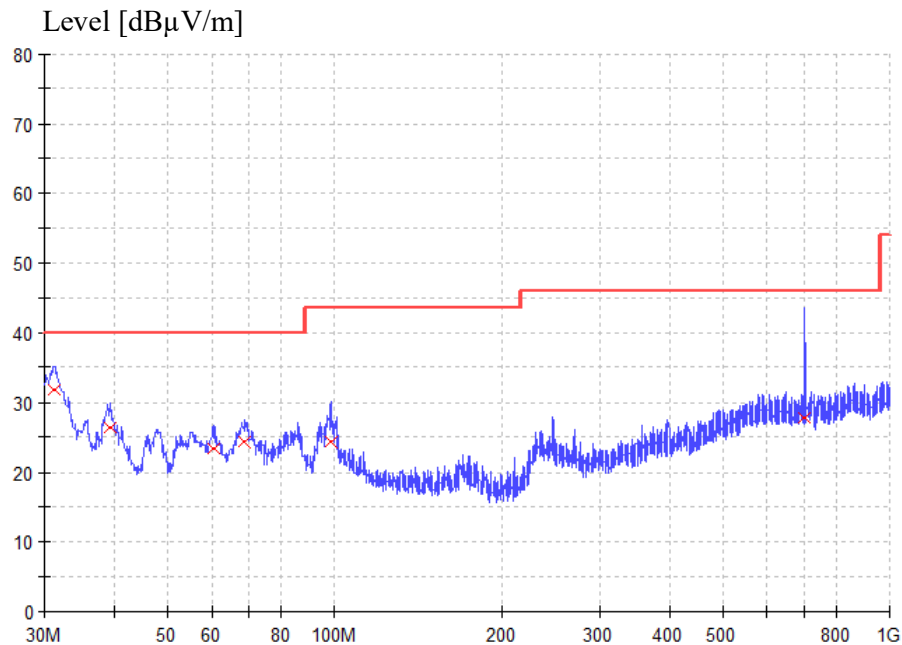
Figure 15: Spectral diagrams, radiated emission, 30 MHz – 1000 MHz, mode 3, Horizontal polarization



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)
81.288750	21.9	120.000	281.0	H	24.0	14.0	18.2	40.0
101.052500	24.3	120.000	171.0	H	115.0	17.5	19.2	43.5
175.742500	22.3	120.000	216.0	H	61.0	16.1	21.2	43.5
248.492500	25.7	120.000	173.0	H	152.0	19.3	20.3	46.0
271.651250	24.2	120.000	202.0	H	-38.0	20.1	21.8	46.0
378.230000	27.2	120.000	361.0	H	17.0	22.2	18.8	46.0

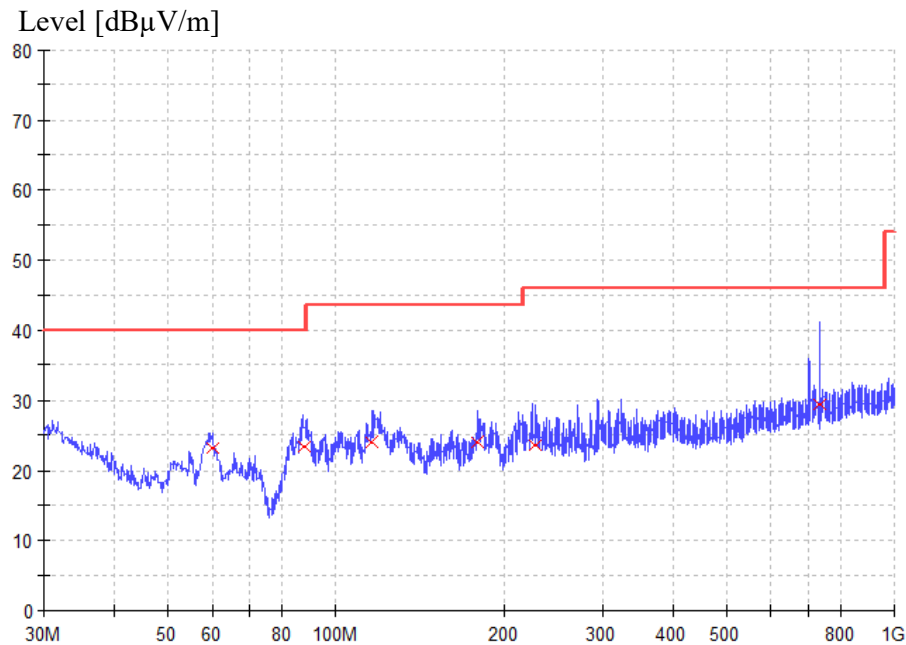
Figure 16: Spectral diagrams, radiated emission, 30 MHz – 1000 MHz, mode 3, Vertical polarization



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)
31.212500	31.8	120.000	158.0	V	126.0	24.8	8.2	40.0
39.336250	26.4	120.000	114.0	V	-12.0	20.2	13.6	40.0
60.433750	23.5	120.000	332.0	V	83.0	12.6	16.5	40.0
68.800000	24.4	120.000	173.0	V	81.0	12.8	15.6	40.0
98.142500	24.4	120.000	349.0	V	66.0	17.0	19.1	43.5
704.028750	27.8	120.000	336.0	V	164.0	27.2	18.2	46.0

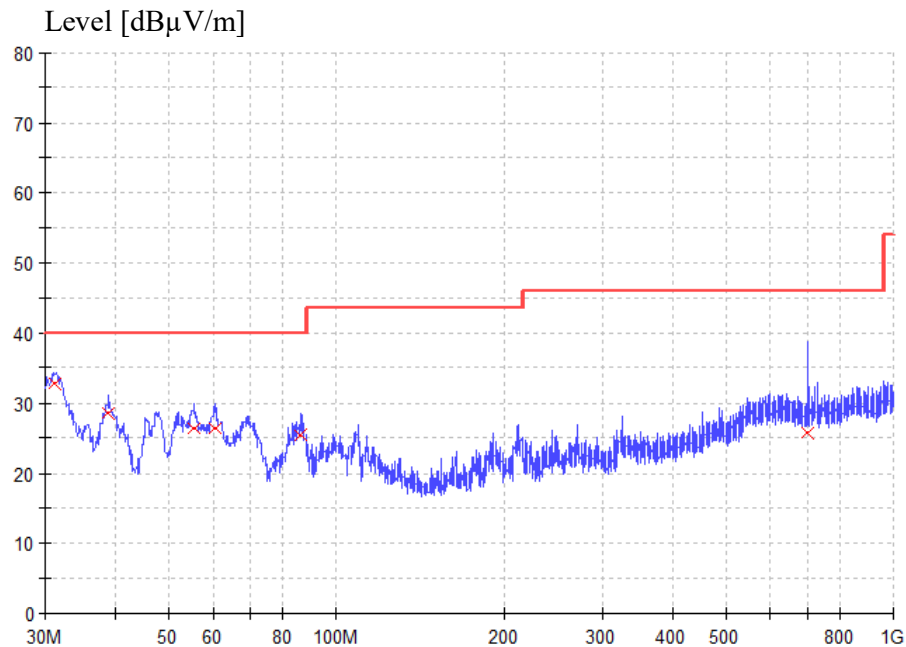
Figure 17: Spectral diagrams, radiated emission, 30 MHz – 1000 MHz, mode 4, Horizontal polarization



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)
59.827500	23.1	120.000	231.0	H	110.0	12.7	17.0	40.0
87.593750	23.3	120.000	150.0	H	154.0	14.9	16.7	40.0
116.208750	24.1	120.000	276.0	H	85.0	18.8	19.4	43.5
179.016250	24.2	120.000	357.0	H	-16.0	16.1	19.3	43.5
227.031250	23.6	120.000	161.0	H	-145.0	16.9	22.4	46.0
731.795000	29.4	120.000	240.0	H	19.0	27.1	16.6	46.0

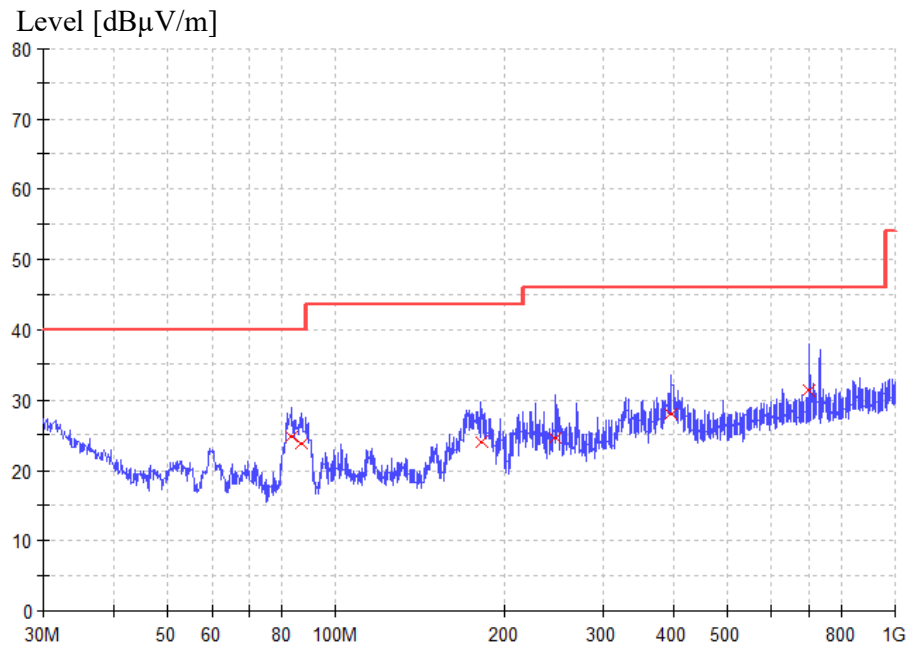
Figure 18: Spectral diagrams, radiated emission, 30 MHz – 1000 MHz, mode 4, Vertical polarization



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	32.8	120.000	212.0	V	120.0	24.8	7.2	40.0
38.972500	28.5	120.000	339.0	V	81.0	20.4	11.5	40.0
55.341250	26.4	120.000	243.0	V	-73.0	13.2	13.6	40.0
60.555000	26.4	120.000	180.0	V	20.0	12.6	13.6	40.0
86.260000	25.4	120.000	266.0	V	91.0	14.7	14.6	40.0
704.028750	25.8	120.000	199.0	V	-17.0	27.2	20.2	46.0

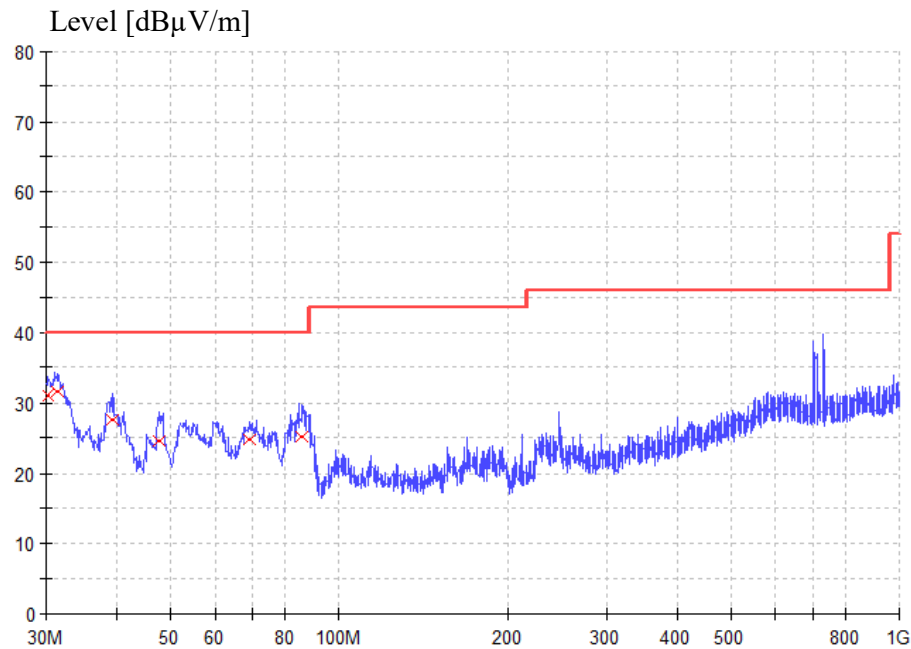
Figure 19: Spectral diagrams, radiated emission, 30 MHz – 1000 MHz, mode 5, Horizontal polarization



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)
83.107500	24.8	120.000	194.0	H	31.0	14.2	15.2	40.0
86.987500	23.8	120.000	144.0	H	97.0	14.8	16.2	40.0
182.290000	24.2	120.000	326.0	H	-159.0	16.0	19.3	43.5
246.310000	24.6	120.000	273.0	H	-114.0	19.2	21.4	46.0
398.721250	28.1	120.000	104.0	H	146.0	23.0	17.9	46.0
704.150000	31.3	120.000	390.0	H	127.0	27.2	14.7	46.0

Figure 20: Spectral diagrams, radiated emission, 30 MHz – 1000 MHz, mode 5, Vertical polarization



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	31.1	120.000	128.0	V	-57.0	25.3	8.9	40.0
31.333750	31.6	120.000	372.0	V	-177.0	24.7	8.4	40.0
39.457500	27.5	120.000	160.0	V	-165.0	20.1	12.5	40.0
47.702500	24.7	120.000	373.0	V	-2.0	15.8	15.3	40.0
68.921250	24.8	120.000	188.0	V	170.0	12.8	15.2	40.0
85.896250	25.4	120.000	111.0	V	76.0	14.6	14.6	40.0

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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. no.	Equipment name	Model	Serial no.	Manufacturer	Cal. 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	2025-07-11	2026-07-11
EMC-C-195	EMI test receiver	ESR3	102794	Rohde & Schwarz	2025-08-02	2026-08-02
EMC-C-190	Artificial mains network	ENV432	101514	Rohde & Schwarz	2025-09-02	2026-09-02
EMC-S-032	EMI measurement software	EMC32-MEB (10.60.20)	100697	Rohde & Schwarz	N/A	N/A
EMC-C-155	BiLog antenna	CBL 6112D	40530	Teseq	2025-03-24	2026-09-24
EMC-C-121	Thermohygrometer	608-H1	1241320265	testo	2025-06-05	2026-06-05
EMC-C-066	EMI test receiver	ESCI	100280	Rohde & Schwarz	2025-09-28	2026-09-28
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