

Prüfbericht-Nr.: <i>Test report no.:</i>	CN260SFN 001	Auftrags-Nr.: <i>Order no.:</i>	326128970	Seite 1 von 23 <i>Page 1 of 23</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	1288983	Auftragsdatum: <i>Order date:</i>	2026-01-13	
Auftraggeber: <i>Client:</i>	IKEA of Sweden AB Box 702, SE-343 81 Älmhult, Sweden			
Prüfgegenstand: <i>Test item:</i>	Cordless Screwdriver			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	P2201-1 TRIXIG			
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>	2025-10-28	Refer to the EUT photos file		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A004124229-009			
Prüfzeitraum: <i>Testing period:</i>	2025-11-06~2026-01-26			
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>		HeXiong Liu	
Datum: <i>Date:</i>	2026-01-29		Ausstellungsdatum: <i>Issue date:</i>	
Stellung / Position:	Project engineer		Authorizer	
Sonstiges / Other:	FCC ID: FHO-P2201-1 Test Firm Name: TÜV Rheinland (Shanghai) Co., Ltd. Designation Number: CN1396 Test Firm Registration Number: 930979 Refer to clause 2.2 for further information.			
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>			
* 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				
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Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, 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. <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>

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Revision history of test report:

Report number	Issue date	Contents and reason for change if appropriate
CN260SFN 001	2026-01-29	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 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 cordless screwdriver for power tools and similar use. For further information, refer to the user's manual.

2.2 Ratings and System Details

Rated input voltage : DC 3.6 V, 1.5 Ah
Protection class : III

2.3 Independent Operation Modes

The basic operation modes are: "Charging", "Working" 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 16 MHz.

2.7 Submitted Documents

Circuit diagram, rating 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.

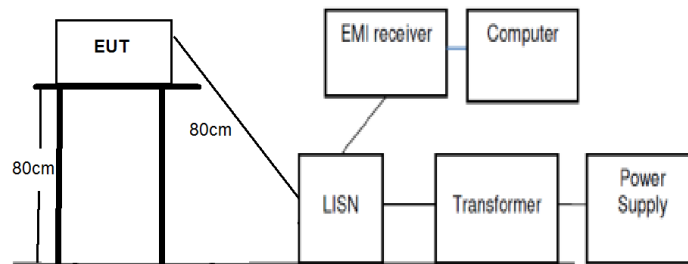
Refer to the related paragraph of this report.

The sequence of testing:

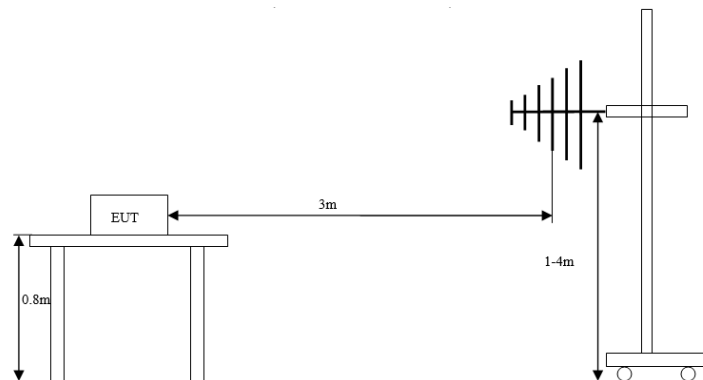
1. Conducted emission tests were performed on 2026-01-26.
2. Radiated emission tests were performed on 2025-11-06~2026-01-26;

3.2 Equipment and cable arrangement

Block diagrams for conducted emission and radiated emission tests are as follows:



(Conducted emission)



(Radiated emission 30-1000 MHz)

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

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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 the tests, the USB-C charger (Brand: IKEA, model: E2307) and the USB type-C cable (Brand: IKEA, length: 1 m) were used for charging mode.

3.5 Countermeasures to achieve EMC Compliance

During tests, no special countermeasures 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	: 2026-01-26	
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	
Input voltage	: AC 120 V, 60 Hz for charger	
Operational mode	: Charging mode	
Ambient condition	: Temperature: 25.7 °C; Relative humidity: 44.8 %	
Expanded measurement uncertainty ($k=2$)	: 2.33 dB The minimum margin to the limit is 15.18 dB at 0.161250 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, “*” means Quasi-Peak Value and “*” means Average Value results.

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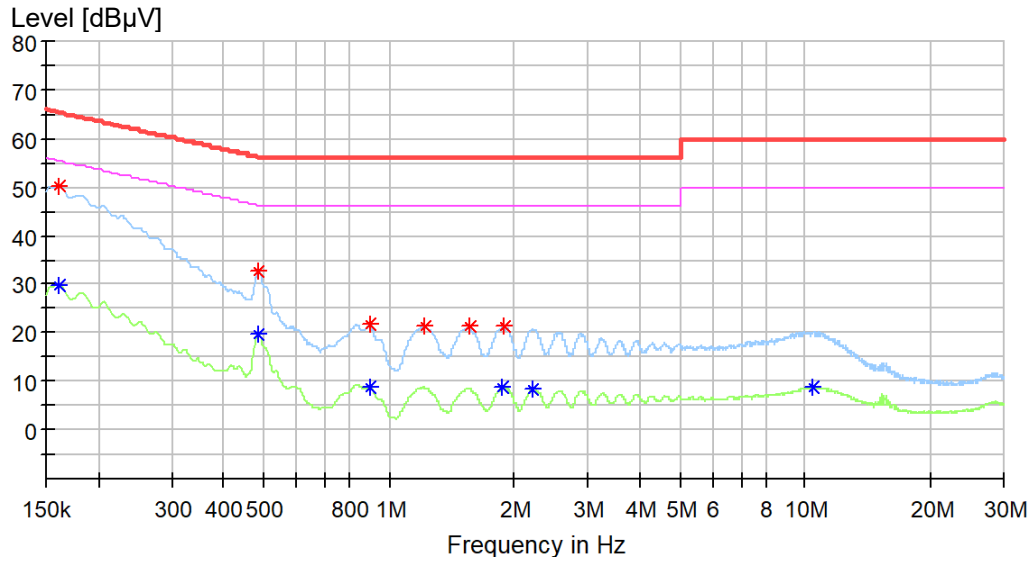
Notes on following tables of conducted emission results and conversions:

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



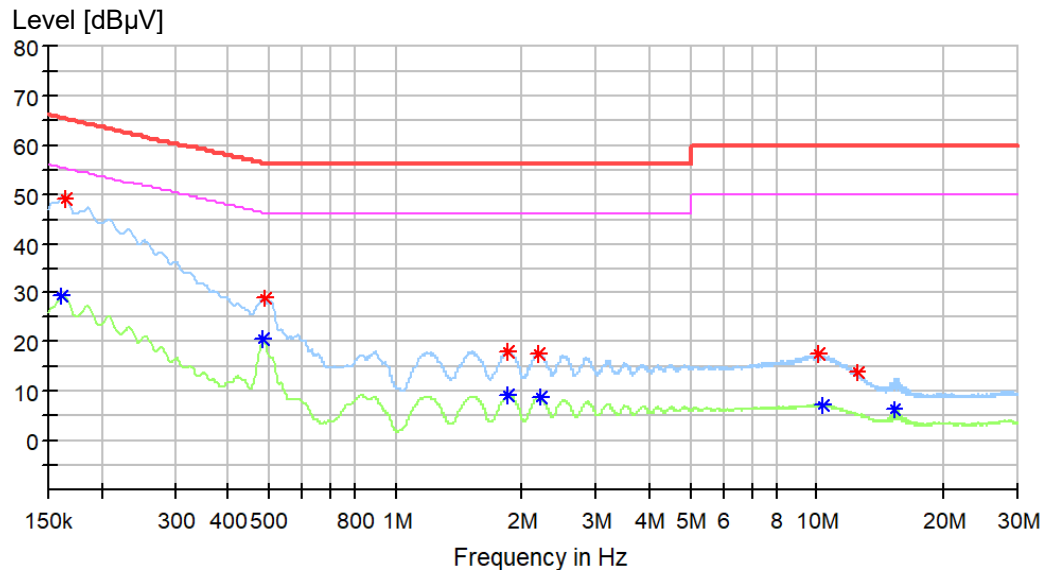
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line
0.161250	50.22	65.40	15.18	L1
0.485250	32.65	56.25	23.60	L1
0.897000	21.73	56.00	34.27	L1
1.209750	21.38	56.00	34.62	L1
1.551750	21.19	56.00	34.81	L1
1.893750	21.47	56.00	34.53	L1

Final Average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line
0.161250	29.94	55.40	25.46	L1
0.485250	19.90	46.25	26.35	L1
0.897000	9.00	46.00	37.00	L1
1.871250	8.89	46.00	37.11	L1
2.215500	8.59	46.00	37.41	L1
10.376250	8.81	50.00	41.19	L1

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



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line
0.163500	49.21	65.28	16.08	N
0.487500	29.13	56.21	27.08	N
1.842000	18.22	56.00	37.78	N
2.186250	17.82	56.00	38.18	N
10.029750	17.46	60.00	42.54	N
12.410250	13.82	60.00	46.18	N

Final Average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line
0.161250	29.27	55.40	26.13	N
0.485250	20.42	46.25	25.83	N
1.853250	9.22	46.00	36.78	N
2.206500	8.78	46.00	37.22	N
10.333500	7.16	50.00	42.84	N
15.326250	6.44	50.00	43.56	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	: 2025-11-06~2026-01-26
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
Limits	: Quasi-peak limits (3 m distance) (See Note 1) 30 – 88 MHz, 40 dB μ V/m; 88 – 216 MHz, 43.5 dB μ V/m; 216 – 960 MHz, 46 dB μ V/m; Above 960 MHz, 54 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
Input voltage	: AC 120 V, 60 Hz for charger DC 3.6 V for battery of cordless screwdriver
Operational mode	: Mode 1: Charging mode Mode 1: Continuously working in forward direction Mode 2: Continuously working in backward direction
Ambient condition	: Temperature: 21.7 °C ~ 25.1 °C; Relative humidity: 40.2 % ~ 45.2 %
Expanded measurement uncertainty ($k=2$)	: 5.40 dB The minimum margin to the limit is 9.8 dB at 488.931250 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

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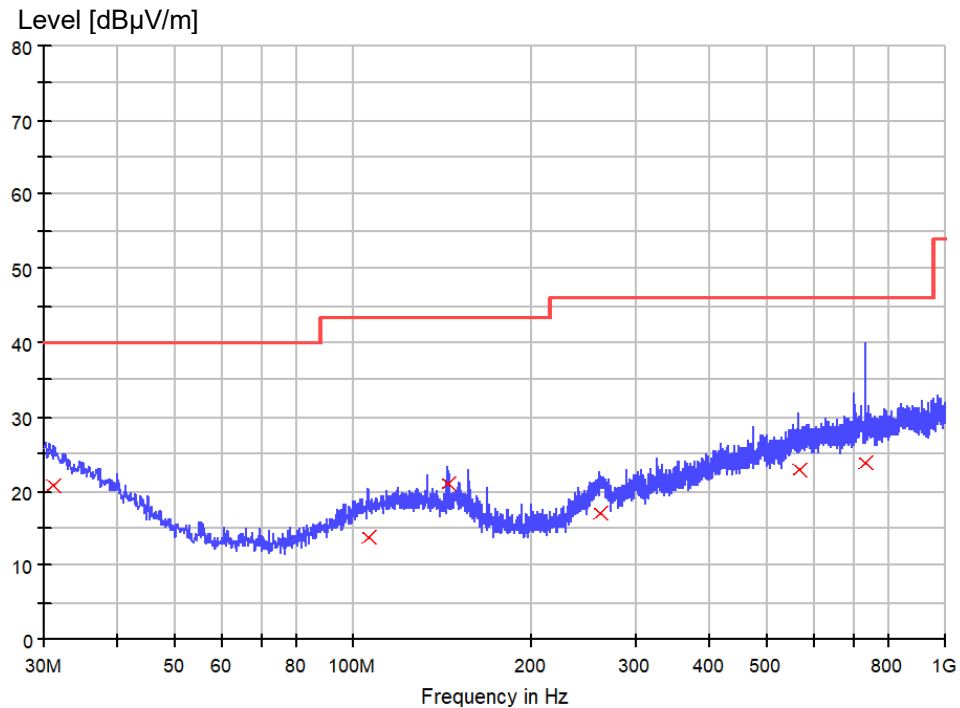
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Corr. (dB): correction factor including: antenna factor, cable loss, and gain of pre-amplifier (if used)

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

Note 1: The class B limits of FCC 47 CFR Part 15, Subpart B:2024 is stricter than those ICES-003:2023 Table 2 for 3 m test distance. Therefore, the former limits are used in following figures and tables.

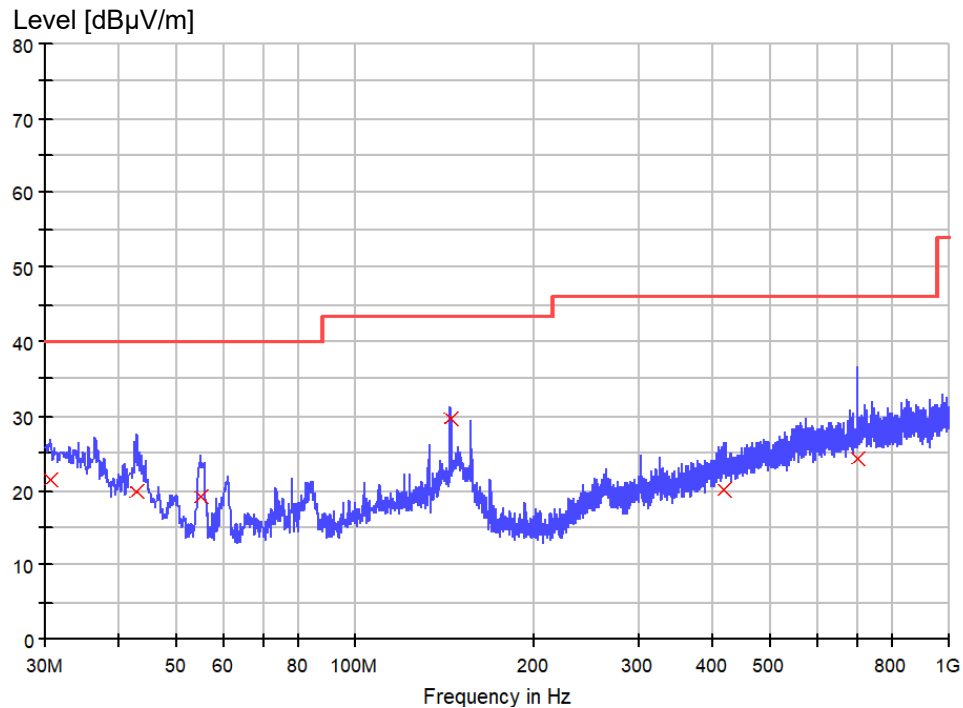
Figure 3: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 1



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)
31.212500	20.9	120.000	213.0	H	136.0	24.8	19.1	40.0
106.387500	13.9	120.000	208.0	H	64.0	18.2	29.6	43.5
144.945000	21.0	120.000	237.0	H	-116.0	17.6	22.5	43.5
260.981250	17.1	120.000	226.0	H	-53.0	21.6	28.9	46.0
567.865000	22.9	120.000	252.0	H	89.0	26.3	23.1	46.0
732.280000	23.8	120.000	184.0	H	87.0	27.0	22.2	46.0

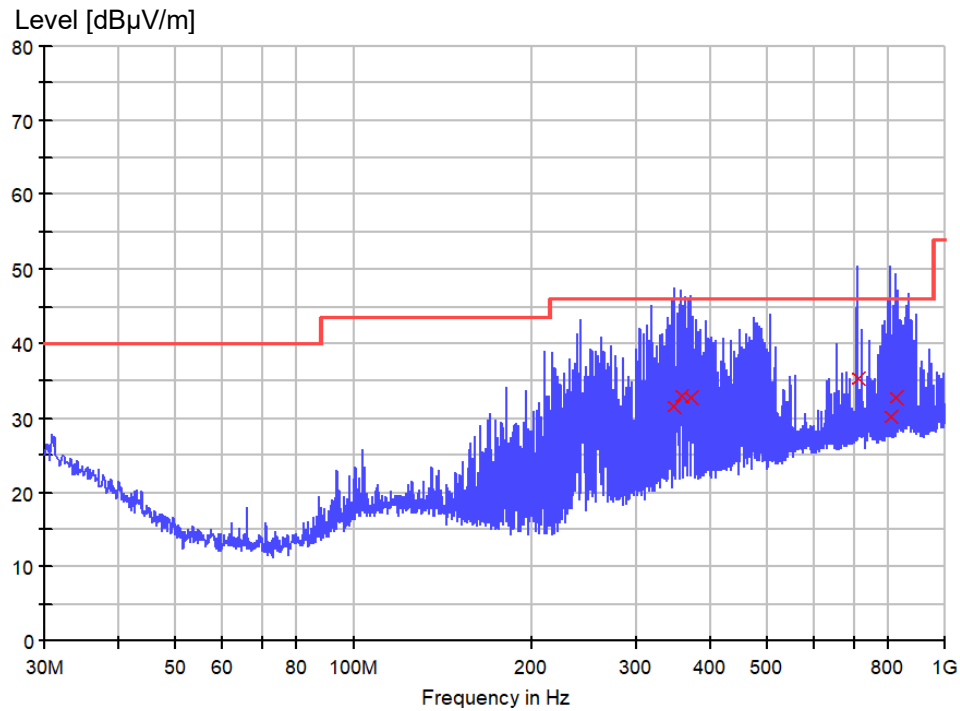
Figure 4: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 1



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)
30.606250	21.5	120.000	114.0	V	136.0	25.1	18.5	40.0
42.852500	19.8	120.000	152.0	V	-84.0	18.2	20.2	40.0
54.856250	19.1	120.000	107.0	V	-37.0	13.3	20.9	40.0
145.066250	29.7	120.000	124.0	V	126.0	17.5	13.8	43.5
417.393750	20.1	120.000	115.0	V	114.0	24.0	25.9	46.0
703.907500	24.2	120.000	172.0	V	176.0	27.2	21.8	46.0

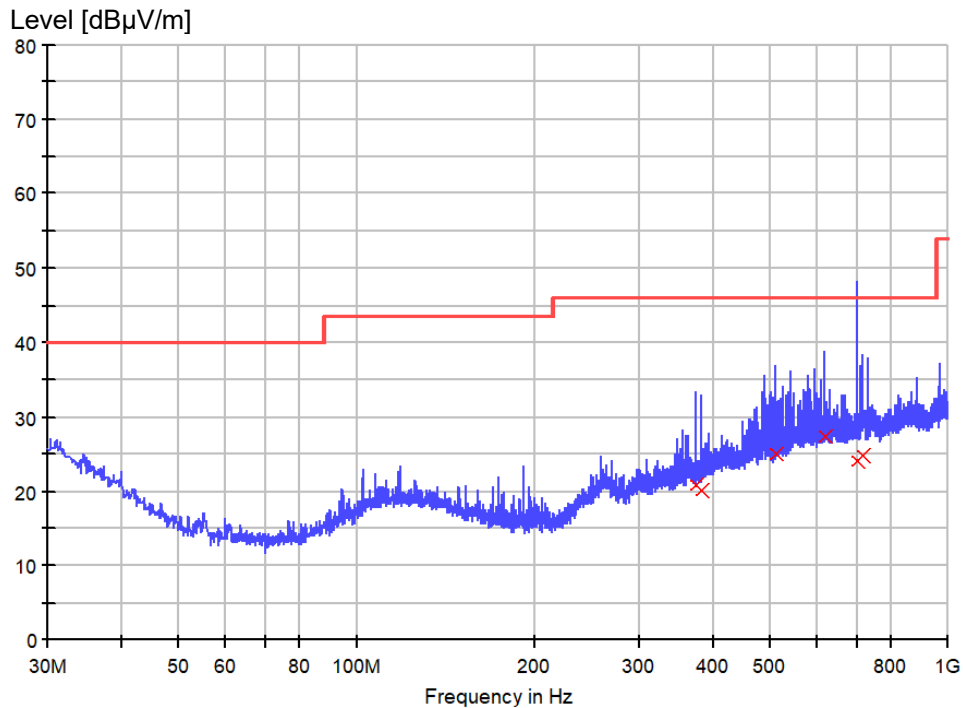
Figure 5: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 2



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
347.675000	31.7	1000.0	120.000	100.0	H	180.0	14.3	46.0
357.132500	33.1	1000.0	120.000	100.0	H	-180.0	13.0	46.0
371.682500	32.7	1000.0	120.000	100.0	H	180.0	13.3	46.0
711.546250	35.3	1000.0	120.000	100.0	H	-180.0	10.7	46.0
805.272500	30.3	1000.0	120.000	100.0	H	180.0	15.7	46.0
826.006250	32.8	1000.0	120.000	100.0	H	-180.0	13.2	46.0

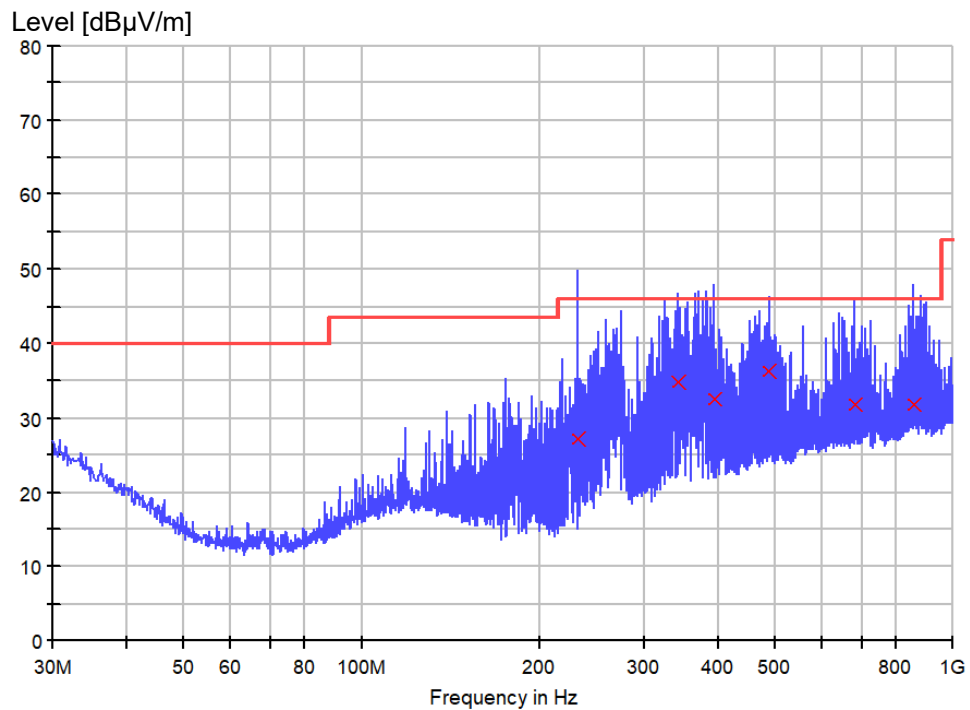
Figure 6: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 2



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)
375.077500	20.9	120.000	136.0	V	-172.0	22.1	25.1	46.0
383.443750	20.0	120.000	201.0	V	18.0	22.4	26.0	46.0
509.786250	25.0	120.000	155.0	V	-88.0	25.0	21.0	46.0
617.820000	27.4	120.000	137.0	V	167.0	26.7	18.6	46.0
703.907500	24.1	120.000	192.0	V	-132.0	27.2	21.9	46.0
719.306250	24.9	120.000	102.0	V	80.0	28.1	21.1	46.0

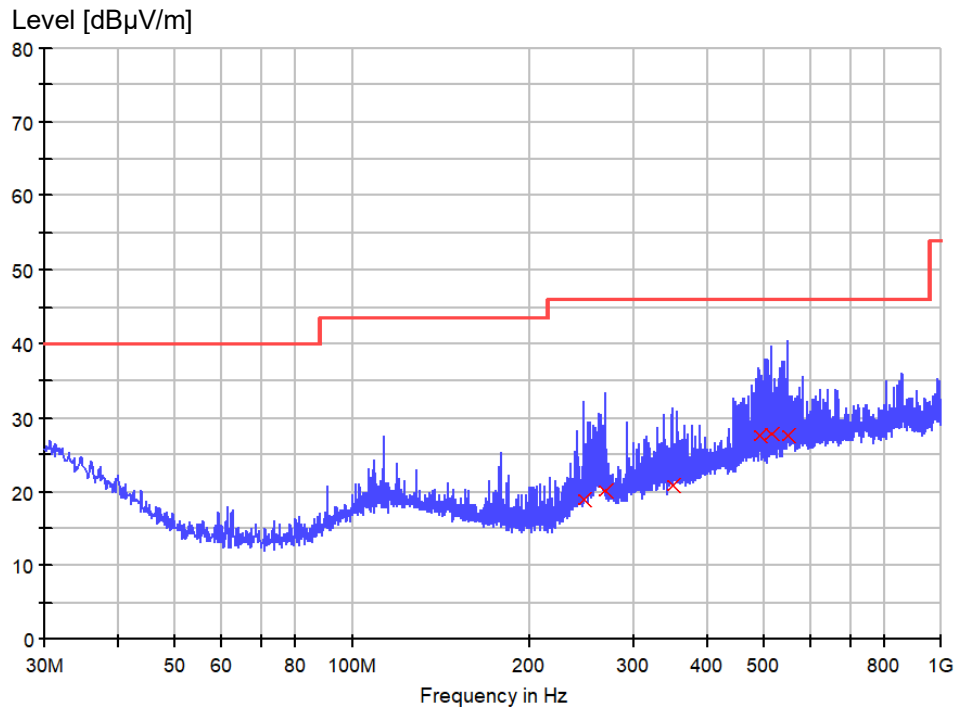
Figure 7: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 3



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)
232.366250	27.2	120.000	103.0	H	180.0	17.6	18.8	46.0
343.795000	34.8	120.000	117.0	H	-66.0	21.0	11.2	46.0
394.477500	32.4	120.000	205.0	H	21.0	22.9	13.6	46.0
488.931250	36.3	120.000	172.0	H	-180.0	25.4	9.8	46.0
682.325000	31.7	120.000	134.0	H	55.0	27.0	14.3	46.0
857.288750	31.9	120.000	192.0	H	-37.0	29.0	14.1	46.0

Figure 8: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 3



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)
247.522500	19.0	120.000	107.0	V	177.0	19.2	27.0	46.0
269.468750	20.1	120.000	219.0	V	-131.0	20.4	25.9	46.0
351.555000	20.9	120.000	157.0	V	69.0	21.8	25.1	46.0
493.053750	27.7	120.000	131.0	V	-18.0	25.6	18.3	46.0
513.545000	27.9	120.000	166.0	V	82.0	25.2	18.1	46.0
550.768750	27.5	120.000	155.0	V	10.0	26.4	18.5	46.0

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
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