

<b>Prüfbericht-Nr.:</b> Test Report No.:	<b>CN241QVO 002</b>	<b>Auftrags-Nr.:</b> Order No.:	<b>326100389</b>	<b>Seite 1 von 20</b> Page 1 of 20
<b>Kunden-Referenz-Nr.:</b> Client Reference No.:	<b>1288983</b>	<b>Auftragsdatum:</b> Order date.:	<b>2025-03-18</b>	
<b>Auftraggeber:</b> Client:	<b>IKEA of Sweden AB</b> Box 702, SE-343 81, Älmhult Sweden			
<b>Prüfgegenstand:</b> Test item:	<b>SJÖSS USB Charger</b>			
<b>Bezeichnung / Typ-Nr.:</b> Identification / Type No.:	<b>E2501-NA</b>			
<b>Auftrags-Inhalt:</b> Order content:	<b>TÜV Rheinland EMC service</b>			
<b>Prüfgrundlage:</b> Test specification:	<b>FCC 47 CFR Part 15, Subpart B:2023 Class B</b> <b>ICES-003:2020</b>			
<b>Wareneingangsdatum:</b> Date of receipt:	<b>2025-05-06</b>	Refer to the EUT photos file		
<b>Prüfmuster-Nr.:</b> Test sample No.:	<b>A003986425-013</b>			
<b>Prüfzeitraum:</b> Testing period:	<b>Refer to test report</b>			
<b>Ort der Prüfung:</b> Place of testing:	<b>Refer to clause 1.1</b>			
<b>Prüflaboratorium:</b> Testing laboratory:	<b>TÜV Rheinland (Shanghai) Co., Ltd.</b>			
<b>Prüfergebnis*:</b> Test result*:	<b>Pass</b>			
<b>geprüft von: / tested by:</b>	<b>genehmigt von: / authorized by:</b>			
<b>Datum: / Date:</b> 2025-06-03	<i>Xuelan Zhang</i>	<b>Datum: / Date:</b> 2025-06-03	<i>Jiayi Zhou</i>	
<b>Stellung: / Position:</b> Project engineer		<b>Stellung: / Position:</b> Authorizer		
<b>Sonstiges / Other:</b>	FCC ID: FHO-E2501 Test Firm Name: TUV Rheinland (Shanghai) Co., Ltd. Designation Number: CN1396 Test Firm Registration Number: 930979			
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> Condition of the test item at delivery:	<b>Prüfmuster vollständig und unbeschädigt</b> 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 specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested				
<b>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.</b> This test report only relates to the a. m. 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.				

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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.<br/>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system.</i></p> <p><i>Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>   |
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| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.<br/>Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i></p> <p><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>  |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p>   |

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**Revision history of test report:**

<b>Report number</b>	<b>Issue date</b>	<b>Contents and reason for change if appropriate</b>
CN241QVO 001	2025-01-02	Initial release.
CN241QVO 002	2025-06-03	Adding CM inductor and updating U1

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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 a SJÖSS USB Charger. For the further information, refer to the user's manual.

### 2.2 Ratings and System Details

Rated input : AC 100-240 V, 50/60 Hz; Max. 0.5 A  
Output : 5.0 V===3.0 A 15.0 W  
9.0 V===2.22 A 20.0 W  
12.0 V===1.67 A 20.0 W  
15.0 V===1.33 A 20.0 W

Protection class : II

The above model was already EMC tested in report CN241QVO 001. This report is only for adding CM inductor and updating U1. Therefore, all the EMC tests were performed.

Component	Model	Parameter	Manufacturer
CM inductor	T6*3*3C	7-20uH	EAGLERISE/LONG SHUN/ shengyi
CM inductor	Interchangeable	7-20uH	Interchangeable
U1	DK8020AP	-	DongKe Semiconductor

### 2.3 Independent Operation Modess

The basic operation mode is continuously operating with matching load.

### 2.4 Description of interconnecting cables

None.

### 2.5 Noise Generating and Noise Suppressing Parts

Refer to the circuit diagram for further information.

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

The highest frequency used in the EUT is less than 108 MHz.

### 2.7 Submitted Documents

Circuit diagram, 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.

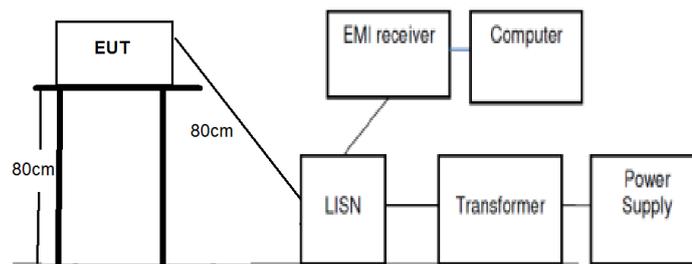
Refer to the related paragraph of this report.

The sequence of testing:

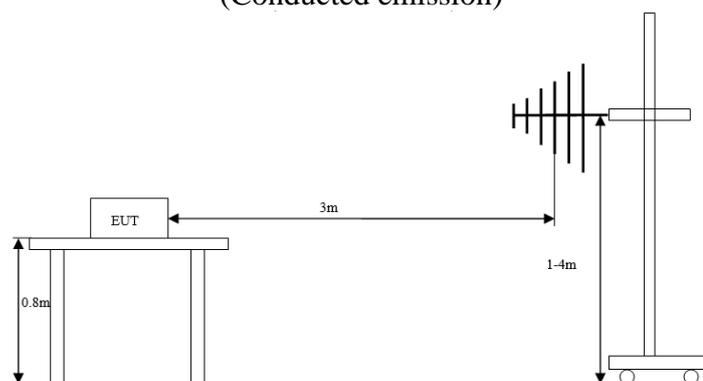
1. Radiated emission tests were performed on 2025-05-14.
2. Conducted emission tests were performed on 2025-05-13.

#### 3.2 Equipment and cable arrangement

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



(Conducted emission)



(Radiated emission)

### **3.3 Test Software**

No special test software was used during the tests.

### **3.4 Special Accessories and Auxiliary Equipment**

During all testing, matching load was used for USB port load.

### **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  $U_{\text{CISPR}}$  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 Mains Terminal Continuous Disturbance Voltage

<b>Result:</b>	<b>Passed</b>
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Date of testing	: 2025-05-13
Test procedure	: FCC 47 CFR Part 15, Subpart B:2023, 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 $\mu$ V (decrease with the logarithm of frequency); 0.5 - 5 MHz, 56 dB $\mu$ V; 5 - 30 MHz, 60 dB $\mu$ V Average limit: 0.15 - 0.5 MHz, 56 to 46 dB $\mu$ V (decrease with the logarithm of frequency); 0.5 – 5 MHz, 46 dB $\mu$ V; 5 – 30 MHz, 50 dB $\mu$ 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 as defined in clause 2.3
Ambient condition	: Temperature: 17.4 °C; Relative humidity: 49.3 %
Expanded measurement uncertainty ( $k=2$ )	: 2.33 dB The minimum margin to the limit is 9.4 dB at 0.683250 MHz. 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, “◆” mean Quasi-Peak Value and “◆” mean Average Value results.

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Notes on following tables of conducted emission results and conversions:

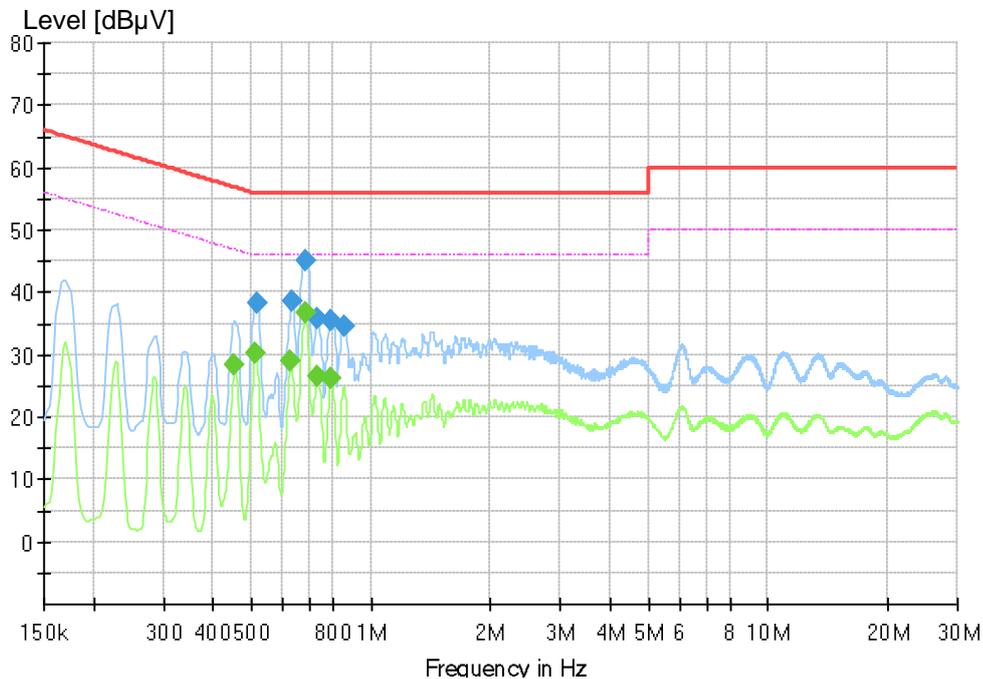
Level (dB $\mu$ V): final measurement results by using quasi-peak detector and average detector

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

Margin: Limit (dB $\mu$ V) - Level (dB $\mu$ V)

*Note 1: The EUT generated the highest emission level under DC 15 V by measurement. Therefore, only the data of DC 15 V was retained.*

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

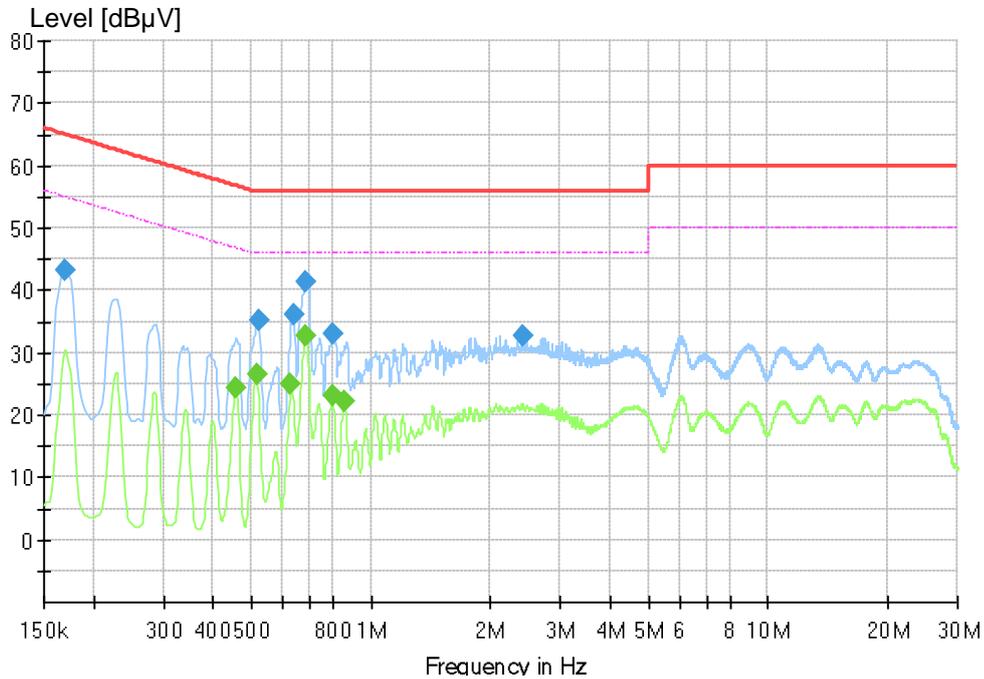


Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.519000	38.23	56.00	17.77	L1	10.3
0.636000	38.44	56.00	17.56	L1	10.3
0.685500	45.13	56.00	10.87	L1	10.3
0.730500	35.91	56.00	20.09	L1	10.3
0.789000	35.48	56.00	20.52	L1	10.4
0.858750	34.53	56.00	21.47	L1	10.5

Final Average measurement result:

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.453750	28.21	46.81	18.59	L1	10.3
0.512250	30.21	46.00	15.79	L1	10.3
0.627000	29.10	46.00	16.90	L1	10.3
0.683250	36.60	46.00	9.40	L1	10.3
0.735000	26.64	46.00	19.36	L1	10.3
0.795750	26.09	46.00	19.91	L1	10.4

**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	Corr. (dB)
0.170250	43.21	64.95	21.74	N	10.5
0.521250	35.21	56.00	20.79	N	10.2
0.638250	35.99	56.00	20.01	N	10.4
0.685500	41.38	56.00	14.62	N	10.4
0.800250	33.11	56.00	22.89	N	10.4
2.402250	32.78	56.00	23.22	N	10.6

**Final Average measurement result:**

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.456000	24.41	46.77	22.35	N	10.3
0.514500	26.48	46.00	19.52	N	10.2
0.629250	24.90	46.00	21.10	N	10.3
0.683250	32.69	46.00	13.31	N	10.4
0.798000	23.23	46.00	22.77	N	10.4
0.856500	22.14	46.00	23.86	N	10.4

## 5.2 Emission in the Frequency Range above 30 MHz

### 5.2.1 Radiated emission (30 MHz - 1 GHz)

<b>Result:</b>	<b>Passed</b>
----------------	---------------

Date of testing	: 2025-05-14
Test procedure	: FCC 47 CFR Part 15, Subpart B:2023, ICES-003:2020, ANSI C63.4-2014 and CISPR 16-2-3
Frequency range	: 30 – 1000 MHz (see Note 1)
Limits	: Quasi-peak limits (3 m distance): 30 – 88 MHz, 40 dB $\mu$ V/m; 88 – 216 MHz, 43.5 dB $\mu$ V/m; 216 – 960 MHz, 46 dB $\mu$ V/m; Above 960 MHz, 54 dB $\mu$ 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
Operational mode	: Mode as defined in clause 2.3
Input voltage	: AC 120 V; 60 Hz
Ambient condition	: Temperature: 17.4 °C; Relative humidity: 51.4 %
Expanded measurement uncertainty ( $k=2$ )	: 5.40 dB The minimum margin to the limit is 15.7 dB at 192.475000 MHz. 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 a 0.8 m high wooden table above the reference ground plane. The wooden table was rotated 360° around and the height of the antenna 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, “x” means quasi-peak test results.

*Note 1: The highest frequency of the internal sources of the EUT is less than 108 MHz, so according to FCC 47 CFR Part 15, Subpart B:2023 this measurement was only made up to 1 GHz.*

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*Note 2: The class B limits of FCC 47 CFR Part 15, Subpart B:2023 is stricter than those ICES-003:2020 for 3 m test distance. Therefore, the former limits are used in following figures and tables.*

*Note 3: The EUT generated the highest emission level under DC 15 V by measurement. Therefore, only the data of DC 15 V was retained.*

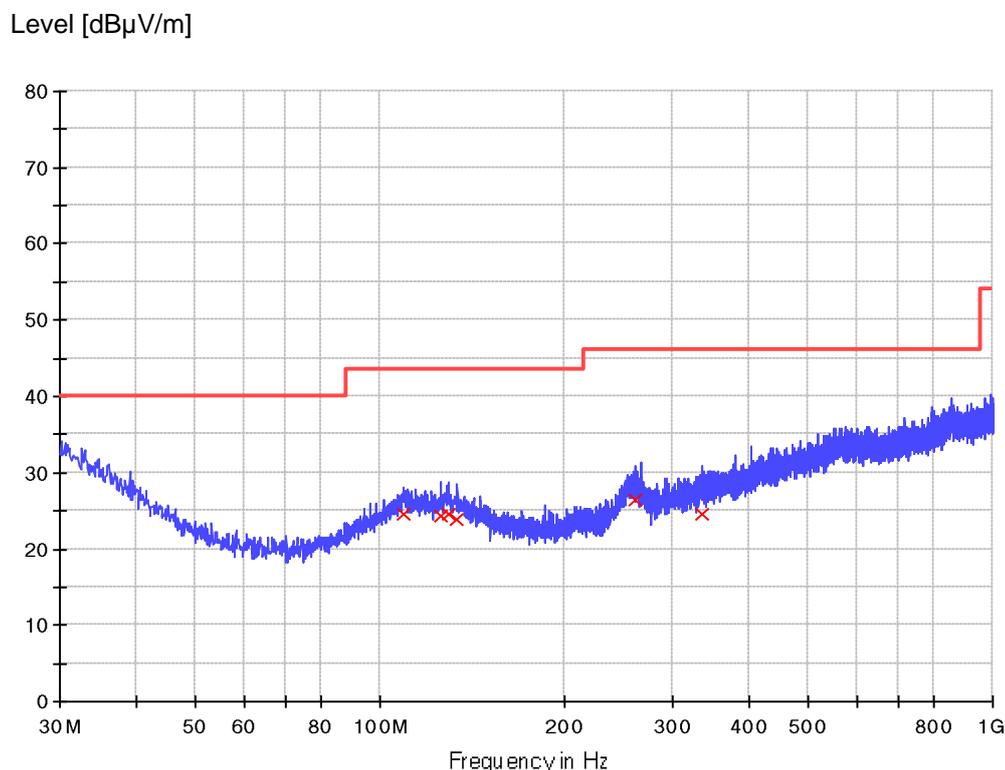
Notes on following tables of radiated emission results and conversions:

QuasiPeak (dB $\mu$ 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 $\mu$ V/m) - QuasiPeak (dB $\mu$ V/m)

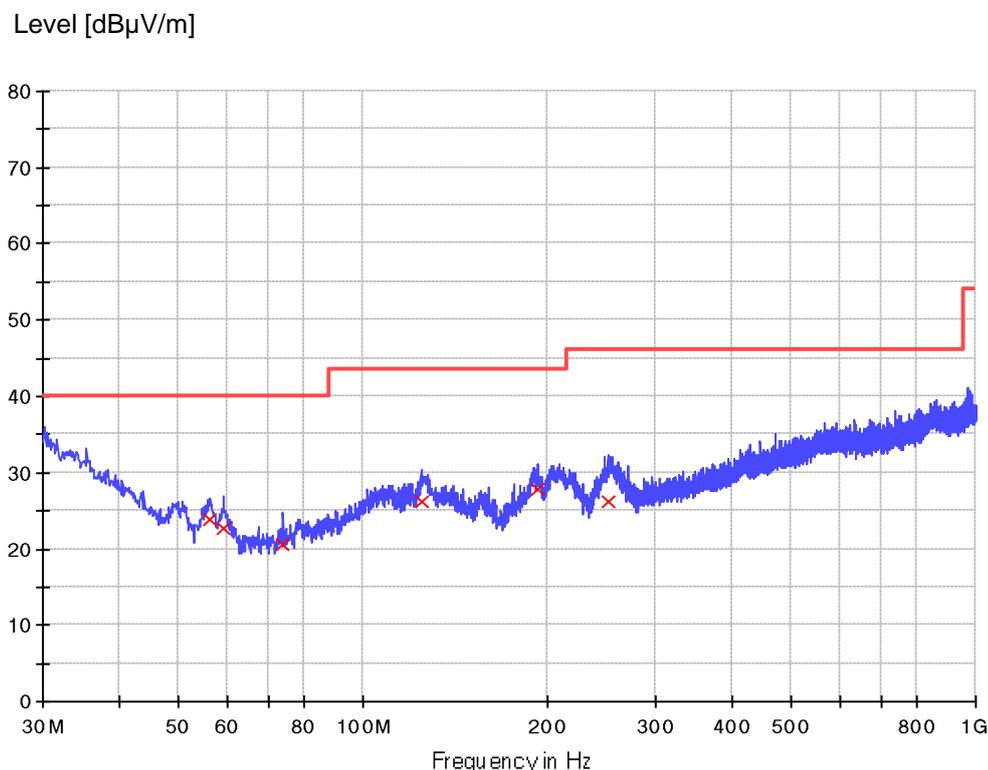
**Figure 3: Spectral Diagrams and measurement results, horizontal polarization (30 MHz to 1 GHz)**



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
109.297500	24.6	1000.0	120.000	111.0	H	109.0	18.6	19.0	43.5
125.545000	24.4	1000.0	120.000	190.0	H	-131.0	18.9	19.1	43.5
128.940000	24.5	1000.0	120.000	133.0	H	-26.0	18.8	19.0	43.5
133.668750	23.8	1000.0	120.000	200.0	H	0.0	18.6	19.7	43.5
260.617500	26.5	1000.0	120.000	107.0	H	-5.0	20.9	19.5	46.0
334.458750	24.5	1000.0	120.000	107.0	H	113.0	21.1	21.5	46.0

**Figure 4: Spectral Diagrams and measurement results, vertical polarization (30 MHz to 1 GHz)**



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
56.311250	23.8	1000.0	120.000	125.0	V	-9.0	13.3	16.2	40.0
59.221250	22.8	1000.0	120.000	129.0	V	-66.0	13.0	17.2	40.0
74.013750	20.5	1000.0	120.000	155.0	V	-50.0	13.2	19.5	40.0
124.332500	26.1	1000.0	120.000	128.0	V	118.0	19.0	17.4	43.5
192.475000	27.9	1000.0	120.000	169.0	V	165.0	16.0	15.7	43.5
250.553750	26.1	1000.0	120.000	189.0	V	95.0	19.5	19.9	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	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-155	BiLog antenna	CBL 6112D	40530	Teseq	2025-03-24	2026-03-24
EMC-C-121	Thermohygrometer	608-H1	1241320265	testo	2024-06-25	2025-06-25
EMC-C-066	EMI test receiver	ESCI	100280	Rohde & Schwarz	2024-10-17	2025-10-17
EMC-C-001	3 m semi-anechoic chamber	SAC3	FJ129002	Frankonia	2023-12-03	2026-12-03

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**End of test report**