

Prüfbericht-Nr.: <i>Test Report No.:</i>	CN257KFT 001	Auftrags-Nr.: <i>Order No.:</i>	326122771	Seite 1 von 36 <i>Page 1 of 36</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	1288983	Auftragsdatum: <i>Order date.:</i>	2025-09-03	
Auftraggeber: <i>Client:</i>	IKEA of Sweden AB Box 702, SE-343 81, Älmhult Sweden			
Prüfgegenstand: <i>Test item:</i>	BADKRUKA			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	E2610			
Auftrags-Inhalt: <i>Order content:</i>	TÜV Rheinland EMC service			
Prüfgrundlage: <i>Test specification:</i>	FCC 47 CFR Part 15, Subpart B:2023 Class B ICES-003:2020			
Wareneingangsdatum: <i>Date of receipt:</i>	2025-08-05	Refer to the EUT photos file		
Prüfmuster-Nr.: <i>Test sample No.:</i>	A004059301-003			
Prüfzeitraum: <i>Testing period:</i>	2025-08-13~2025-09-08			
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: / tested by: <i>XueLan Zhang</i> XueLan Zhang		genehmigt von: / authorized by: <i>Jessie Xu</i> Jessie Xu		
Datum: / Date: 2025-09-24		Datum: / Date: 2025-09-24		
Stellung: / Position: Project engineer		Stellung: / Position: Authorizer		
Sonstiges / Other:	FCC ID: FHO-E2610 IC: 10912A-E2610 Test Firm Name: TUV Rheinland (Shanghai) Co., Ltd. Designation Number: CN1396 Test Firm Registration Number: 930979			
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 specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested				
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Prüfbericht - Nr.: CN257KFT 001

Test Report No.:

Seite 2 von 36

Page 2 of 36

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.</p> <p>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.</p> <p>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 bezueglich 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> |

Prüfbericht - Nr.: CN257KFT 001

Test Report No.:

Seite 3 von 36

Page 3 of 36

Revision history of test report:

Report number	Issue date	Contents and reason for change if appropriate
CN257KFT 001	2025-09-24	Initial release.

Contents

1	TEST SITES	5
1.1	TEST FACILITIES.....	5
2	GENERAL PRODUCT INFORMATION	6
2.1	PRODUCT FUNCTION AND INTENDED USE	6
2.2	RATINGS AND SYSTEM DETAILS.....	6
2.3	INDEPENDENT OPERATION MODESS	6
2.4	DESCRIPTION OF INTERCONNECTING CABLES	6
2.5	NOISE GENERATING AND NOISE SUPPRESSING PARTS	6
2.6	HIGHEST FREQUENCY GENERATED OR USED IN THE DEVICE OR ON WHICH THE DEVICE OPERATES OR TUNES	6
2.7	SUBMITTED DOCUMENTS.....	6
3	TEST SET-UP AND OPERATION MODES.....	7
3.1	PRINCIPLE OF CONFIGURATION SELECTION	7
3.2	EQUIPMENT AND CABLE ARRANGEMENT.....	7
3.3	TEST SOFTWARE	8
3.4	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	8
3.5	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	8
4	CONFORMITY DECISION RULE.....	9
5	TEST RESULTS EMISSION	10
5.1	EMISSION IN THE FREQUENCY RANGE UP TO 30 MHz	10
5.1.1	<i>Mains Terminal Continuous Disturbance Voltage</i>	10
5.2	EMISSION IN THE FREQUENCY RANGE ABOVE 30 MHz.....	18
5.2.1	<i>Radiated emission (30 MHz - 1 GHz)</i>	18
5.2.2	<i>Radiated emission (Above 1 GHz)</i>	26
6	PHOTOGRAPHS OF THE TEST SET-UP.....	34
7	LIST OF TEST AND MEASUREMENT INSTRUMENTS	35
8	LIST OF FIGURES.....	36

Prüfbericht - Nr.: CN257KFT 001
Test Report No.:

Seite 5 von 36
Page 5 of 36

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 used test equipment is in accordance with CISPR 16-1 series standards for measurement of radio interference.

Refer to Clause 6 for test and measurement instruments.

Prüfbericht - Nr.: CN257KFT 001
Test Report No.:

Seite 6 von 36
Page 6 of 36

2 General Product Information

2.1 Product Function and Intended Use

The EUT (equipment under test) is a BADKRUKA. 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
Protection class	II

2.3 Independent Operation Modess

The basic operation mode is the below,

Mode 1: continuous playing 1 kHz audio signal by Bluetooth.

Mode 2: continuous playing 1 kHz audio signal by AUX line.

Mode 3: continuous playing 1 kHz audio signal by optical line.

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 2.4 GHz.

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.

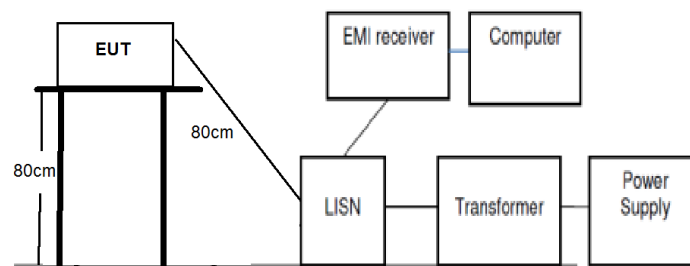
Refer to the related paragraph of this report.

The sequence of testing:

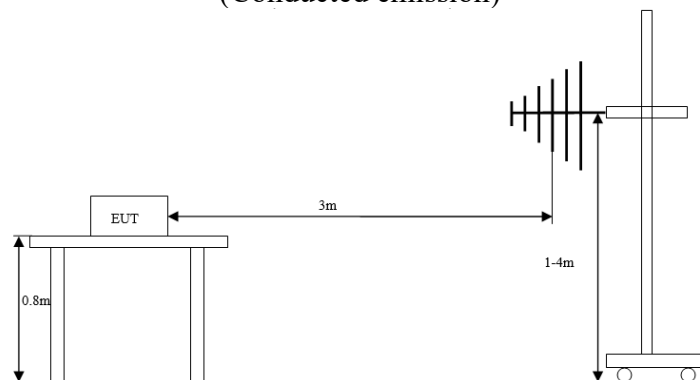
1. Radiated emission tests were performed on 2025-09-08.
2. Conducted emission tests were performed on 2025-09-08.

3.2 Equipment and cable arrangement

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



(Conducted emission)



(Radiated emission)

Prüfbericht - Nr.: CN257KFT 001
Test Report No.:

Seite 8 von 36
Page 8 of 36

3.3 Test Software

No special test software was used during the tests.

3.4 Special Accessories and Auxiliary Equipment

During the tests, the below equipment were used.

No.	Equipment	Model	Manufacturer
1	Cell phone	STF-AL10	Huawei
2	Computer	ThinkPad T450	lenovo
3	Audio signal converter	Z1	Biaze

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 Mains Terminal Continuous Disturbance Voltage

Result:		Passed
Date of testing	: 2025-09-08	
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 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	: Modes 1, 2, 3 as defined in clause 2.3	
Ambient condition	: Temperature: 23.5 °C; Relative humidity: 57.8 %	
Expanded measurement uncertainty ($k=2$)	: 2.33 dB The minimum margin to the limit is 14.06 dB at 12.763500 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.

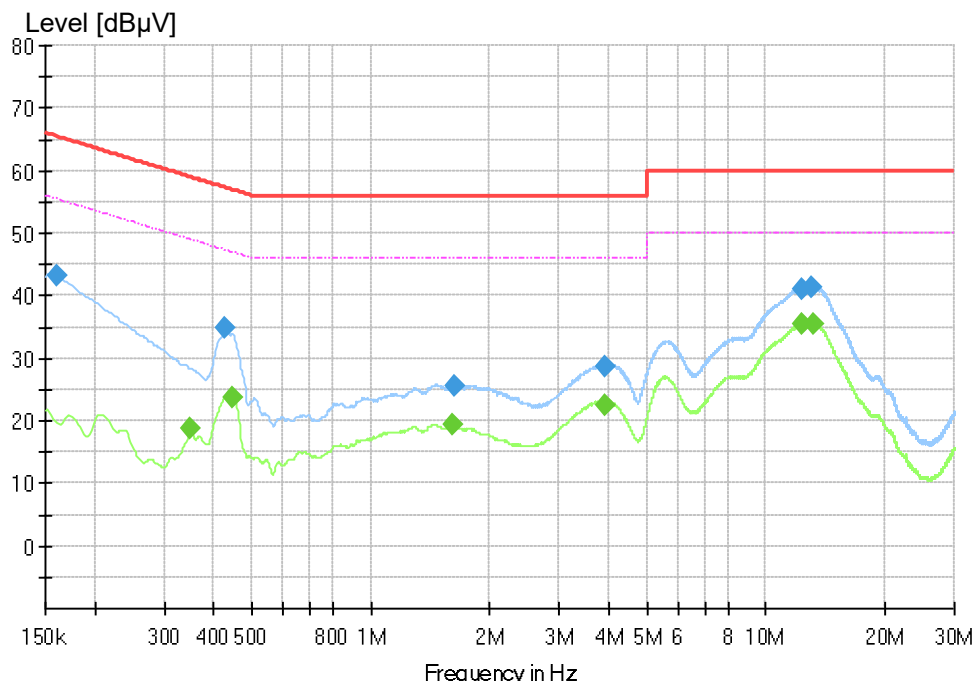
Notes on following tables of conducted emission results and conversions:

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)

Prüfbericht - Nr.: CN257KFT 001
Test Report No.:

Seite 12 von 36
Page 12 of 36

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



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Line
0.161250	43.12	65.40	22.28	L1
0.429000	34.72	57.27	22.56	L1
1.628250	25.55	56.00	30.45	L1
3.923250	28.70	56.00	27.30	L1
12.399000	41.01	60.00	18.99	L1
13.013250	41.25	60.00	18.75	L1

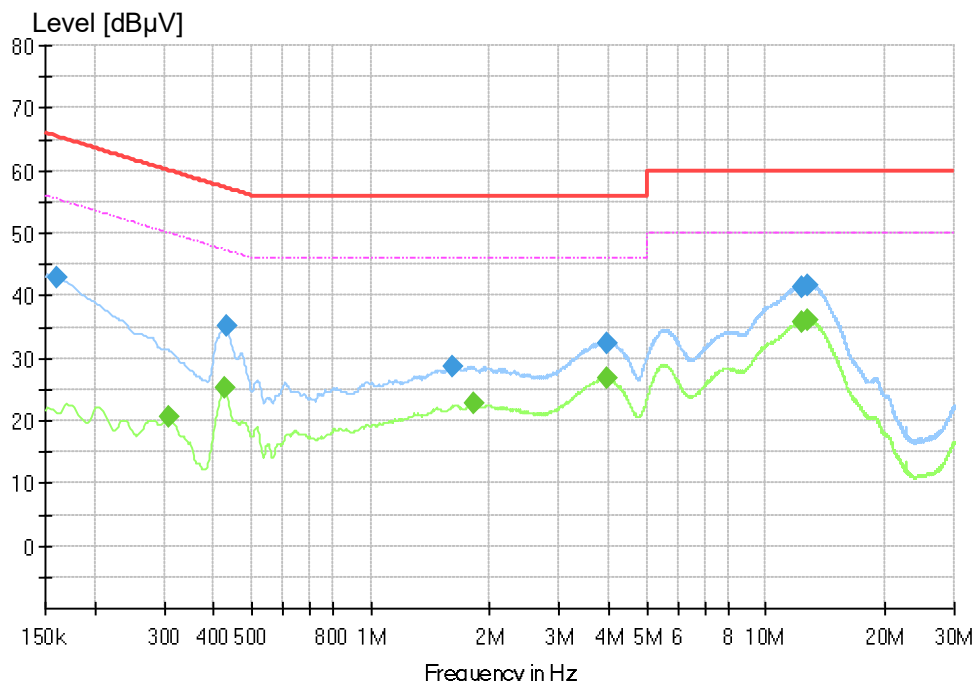
Final Average measurement result:

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line
0.350250	18.89	48.96	30.07	L1
0.444750	23.73	46.97	23.24	L1
1.614750	19.45	46.00	26.55	L1
3.921000	22.39	46.00	23.61	L1
12.401250	35.35	50.00	14.65	L1
13.143750	35.44	50.00	14.56	L1

Prüfbericht - Nr.: CN257KFT 001
Test Report No.:

Seite 13 von 36
Page 13 of 36

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



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line
0.161250	42.97	65.40	22.43	N
0.431250	35.24	57.23	21.99	N
1.612500	28.65	56.00	27.35	N
3.959250	32.40	56.00	23.60	N
12.300000	41.40	60.00	18.60	N
12.810750	41.58	60.00	18.42	N

Final Average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line
0.309750	20.51	49.98	29.46	N
0.426750	25.34	47.32	21.98	N
1.828500	22.75	46.00	23.25	N
3.961500	26.69	46.00	19.31	N
12.333750	35.64	50.00	14.36	N
12.763500	35.94	50.00	14.06	N

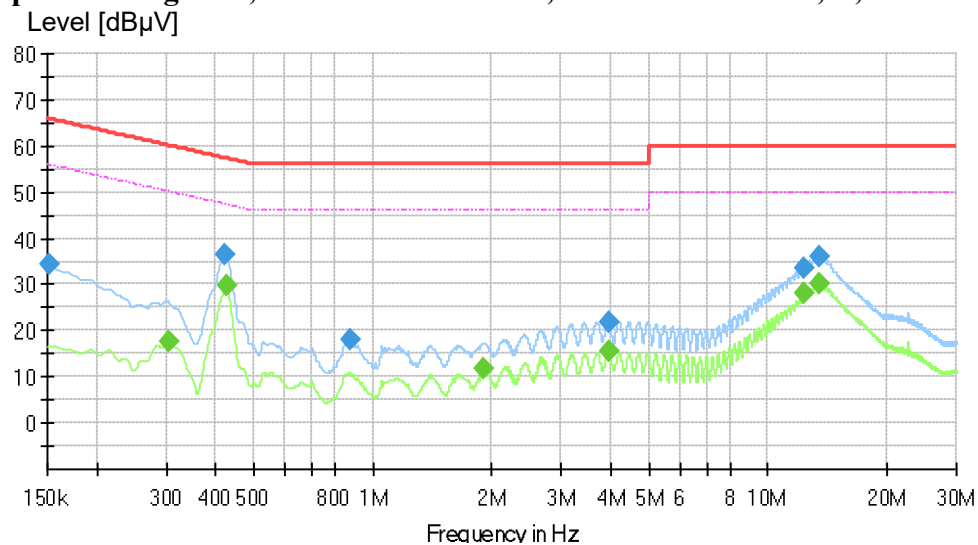
Prüfbericht - Nr.: CN257KFT 001

Test Report No.:

Seite 14 von 36

Page 14 of 36

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



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.152250	34.45	65.88	31.43	L1	10.6
0.424500	36.54	57.36	20.82	L1	10.5
0.879000	18.15	56.00	37.85	L1	10.5
3.945750	21.94	56.00	34.06	L1	10.6
12.282000	33.74	60.00	26.26	L1	10.9
13.553250	35.87	60.00	24.13	L1	11.0

Final Average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.305250	17.83	50.10	32.27	L1	10.5
0.426750	29.78	47.32	17.53	L1	10.5
1.916250	11.68	46.00	34.32	L1	10.5
3.954750	15.46	46.00	30.54	L1	10.6
12.291000	27.91	50.00	22.09	L1	10.9
13.560000	30.32	50.00	19.68	L1	11.0

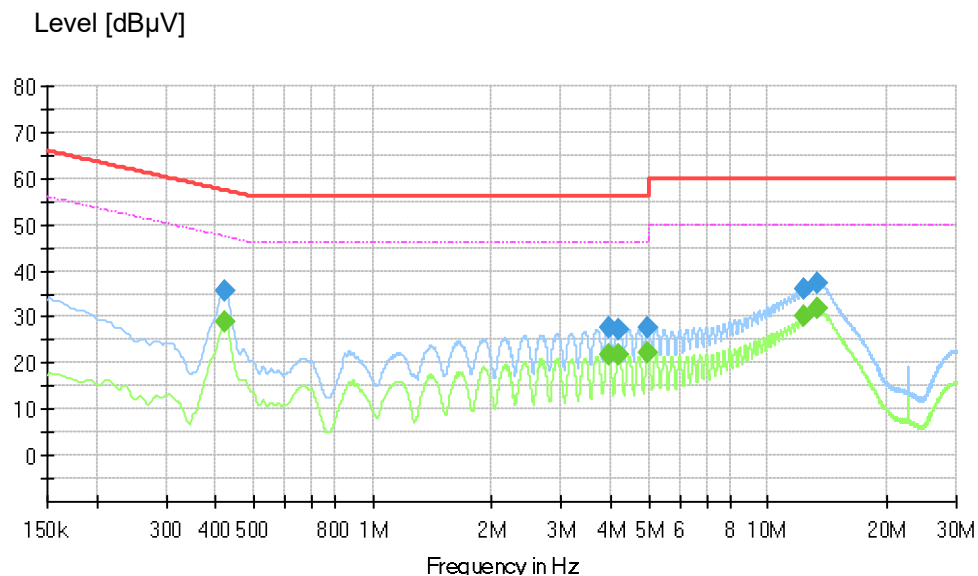
Prüfbericht - Nr.: CN257KFT 001

Test Report No.:

Seite 15 von 36

Page 15 of 36

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



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.422250	35.82	57.40	21.59	N	10.3
3.939000	27.55	56.00	28.45	N	10.4
4.202250	27.38	56.00	28.62	N	10.4
4.960500	27.59	56.00	28.41	N	10.4
12.277500	36.07	60.00	23.93	N	10.8
13.301250	37.46	60.00	22.54	N	10.8

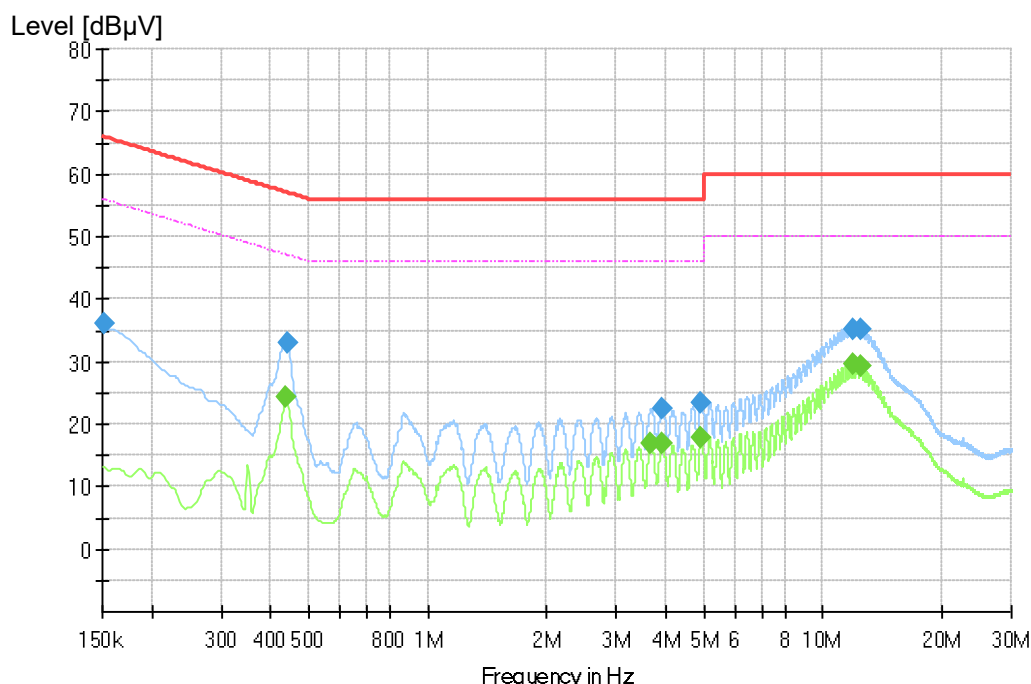
Final Average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.424500	28.97	47.36	18.39	N	10.3
3.939000	21.81	46.00	24.19	N	10.4
4.195500	21.86	46.00	24.14	N	10.4
4.958250	22.03	46.00	23.97	N	10.4
12.300000	30.29	50.00	19.71	N	10.8
13.299000	31.82	50.00	18.18	N	10.8

Prüfbericht - Nr.: CN257KFT 001
Test Report No.:

Seite 16 von 36
Page 16 of 36

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



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line
0.152250	36.09	65.88	29.79	L1
0.440250	32.96	57.06	24.09	L1
3.925500	22.50	56.00	33.50	L1
4.904250	23.30	56.00	32.70	L1
11.960250	35.29	60.00	24.71	L1
12.448500	35.02	60.00	24.98	L1

Final Average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line
0.438000	24.35	47.10	22.75	L1
3.671250	16.87	46.00	29.13	L1
3.925500	17.03	46.00	28.97	L1
4.929000	17.78	46.00	28.22	L1
11.960250	29.53	50.00	20.47	L1
12.473250	29.23	50.00	20.77	L1

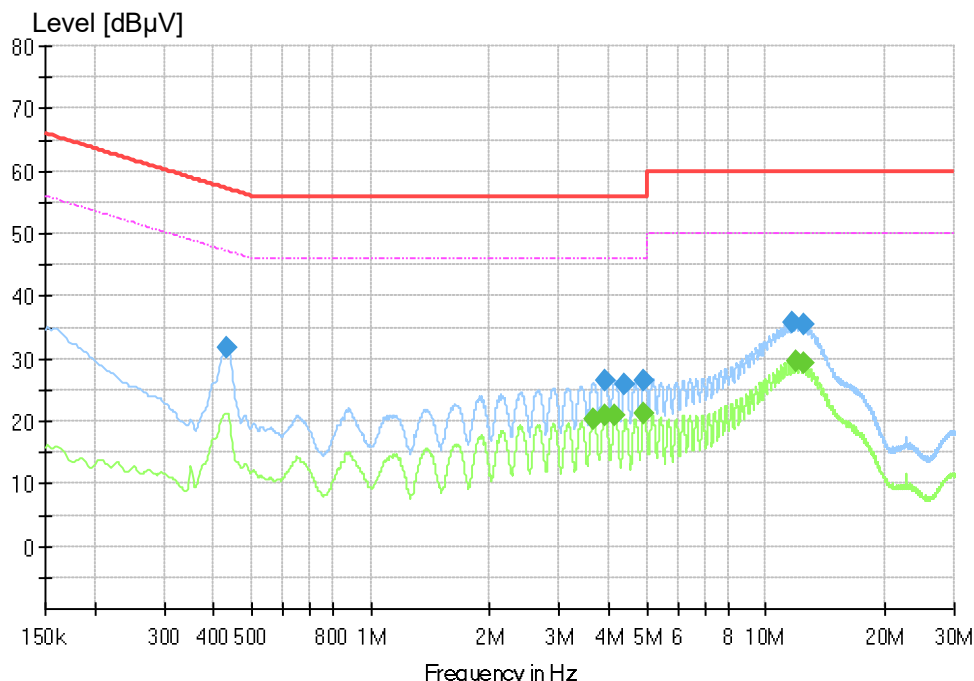
Prüfbericht - Nr.: CN257KFT 001

Test Report No.:

Seite 17 von 36

Page 17 of 36

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



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line
0.433500	31.77	57.19	25.41	N
3.905250	26.50	56.00	29.50	N
4.407000	25.77	56.00	30.23	N
4.931250	26.59	56.00	29.41	N
11.692500	35.65	60.00	24.35	N
12.453000	35.45	60.00	24.55	N

Final Average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line
3.651000	20.45	46.00	25.55	N
3.905250	20.98	46.00	25.02	N
4.159500	20.92	46.00	25.08	N
4.926750	21.11	46.00	24.89	N
11.969250	29.72	50.00	20.28	N
12.450750	29.40	50.00	20.60	N

5.2 Emission in the Frequency Range above 30 MHz

5.2.1 Radiated emission (30 MHz - 1 GHz)

Result:		Passed
Date of testing	: 2025-09-08	
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	
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 – 960 MHz, 46 dB μ V/m; Above 960 MHz, 54 dB μ V/m (see Note 1)	
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	: Modes 1, 2, 3 as defined in clause 2.3	
Input voltage	: AC 120 V, 60 Hz	
Ambient condition	: Temperature: 23.3 °C; Relative humidity: 57.2 %	
Expanded measurement uncertainty ($k=2$)	: 5.40 dB The minimum margin to the limit is 6.2 dB at 33.880000 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, “×” means quasi-peak test results.

Note 1: 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.

Prüfbericht - Nr.: CN257KFT 001

Test Report No.:

Seite 19 von 36

Page 19 of 36

Notes on following tables of radiated emission results and conversions:

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

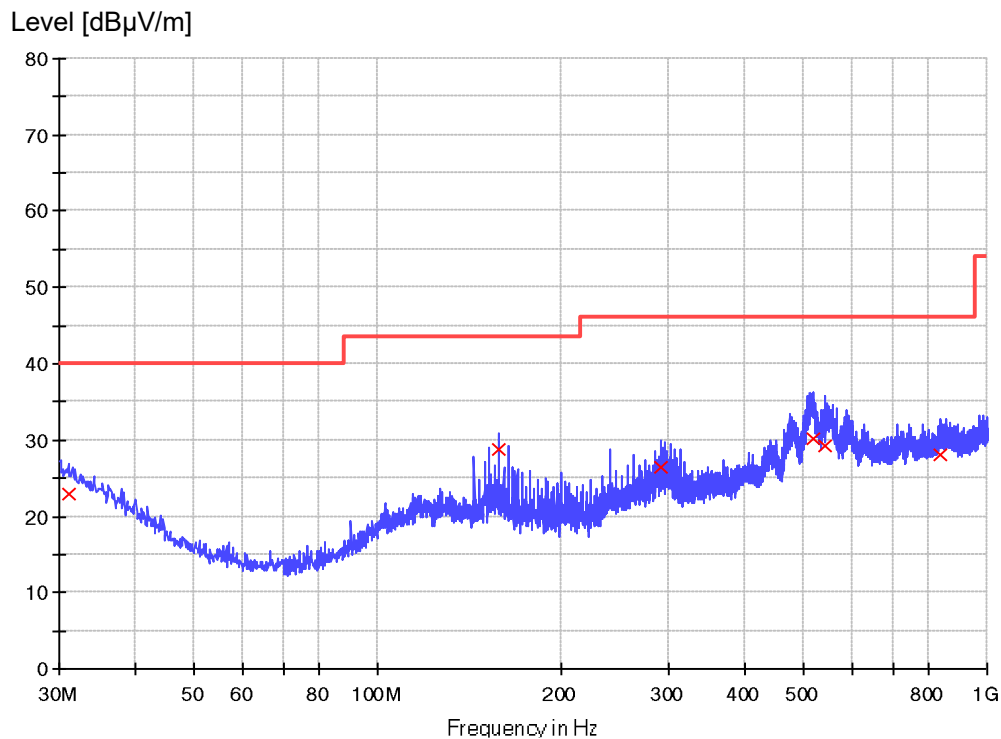
Corr. (dB): correction factor including: antenna factor, cable loss, and gain of pre-amplifier (if used)

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

Prüfbericht - Nr.: CN257KFT 001
Test Report No.:

Seite 20 von 36
Page 20 of 36

Figure 7: Spectral Diagrams and measurement results, horizontal polarization (30 MHz to 1 GHz), mode 1



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)
31.091250	22.8	1000.0	120.000	123.0	H	150.0	24.8	17.2	40.0
158.161250	28.7	1000.0	120.000	173.0	H	-172.0	16.9	14.8	43.5
290.808750	26.3	1000.0	120.000	139.0	H	167.0	20.1	19.7	46.0
517.425000	30.1	1000.0	120.000	165.0	H	-55.0	25.2	15.9	46.0
542.887500	29.1	1000.0	120.000	187.0	H	16.0	26.0	16.9	46.0
838.616250	28.0	1000.0	120.000	180.0	H	-140.0	28.8	18.0	46.0

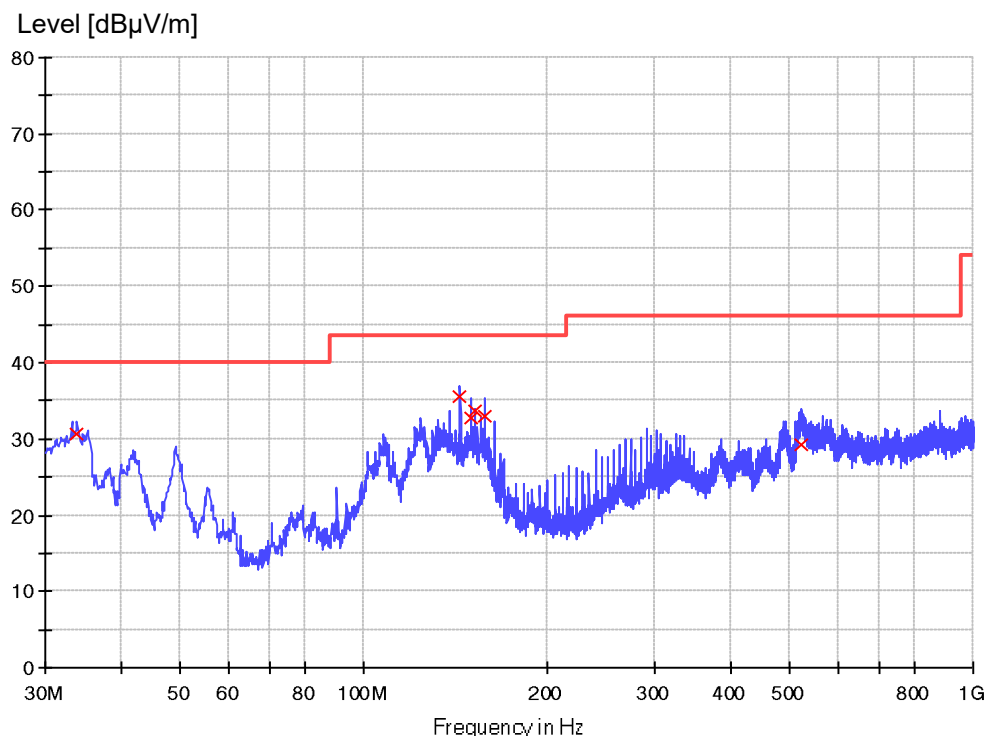
Prüfbericht - Nr.: CN257KFT 001

Test Report No.:

Seite 21 von 36

Page 21 of 36

Figure 8: Spectral Diagrams and measurement results, vertical polarization (30 MHz to 1 GHz), mode 1



Final Quasi-peak measurement result:

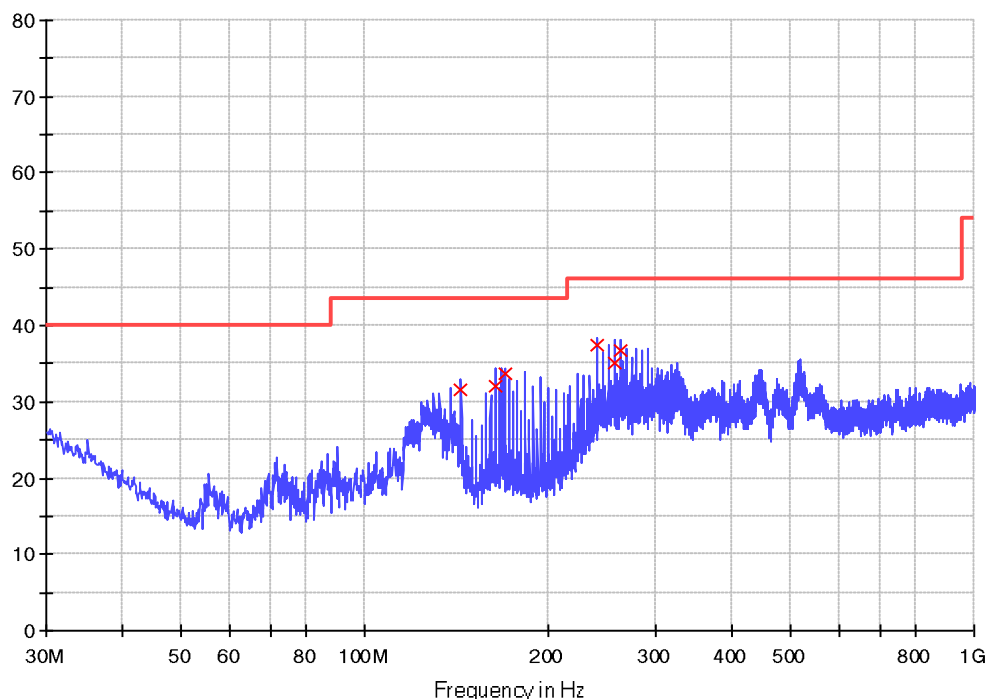
Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
33.880000	30.5	1000.0	120.000	183.0	V	158.0	23.2	9.5	40.0
143.975000	35.6	1000.0	120.000	171.0	V	-52.0	17.6	7.9	43.5
149.673750	32.7	1000.0	120.000	150.0	V	117.0	17.1	10.9	43.5
152.462500	33.6	1000.0	120.000	158.0	V	-90.0	17.0	9.9	43.5
158.161250	32.9	1000.0	120.000	147.0	V	-113.0	16.9	10.6	43.5
522.517500	29.3	1000.0	120.000	103.0	V	39.0	25.3	16.7	46.0

Prüfbericht - Nr.: CN257KFT 001
Test Report No.:

Seite 22 von 36
Page 22 of 36

Figure 9: Spectral Diagrams and measurement results, horizontal polarization (30 MHz to 1 GHz), mode 2

Level [dBμV/m]



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)
143.975000	31.6	1000.0	120.000	177.0	H	166.0	17.6	11.9	43.5
163.738750	32.1	1000.0	120.000	149.0	H	99.0	16.7	11.4	43.5
169.437500	33.7	1000.0	120.000	107.0	H	34.0	16.3	9.9	43.5
240.005000	37.5	1000.0	120.000	108.0	H	-21.0	18.9	8.5	46.0
256.980000	35.1	1000.0	120.000	161.0	H	-61.0	20.7	10.9	46.0
262.557500	36.7	1000.0	120.000	166.0	H	-110.0	21.6	9.3	46.0

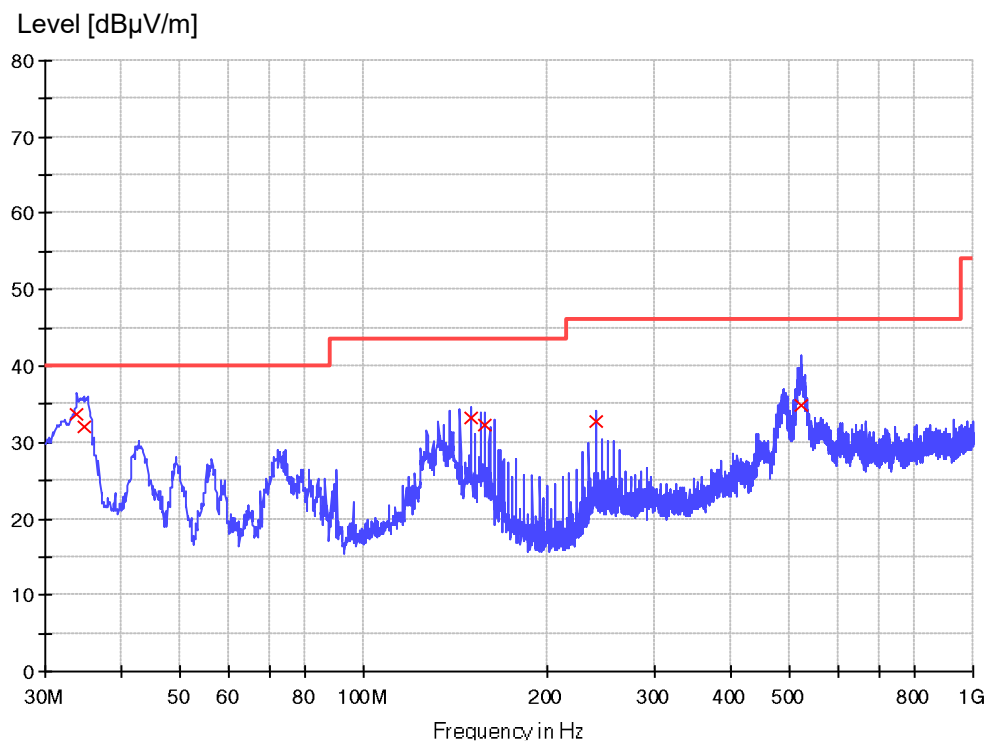
Prüfbericht - Nr.: CN257KFT 001

Test Report No.:

Seite 23 von 36

Page 23 of 36

Figure 10: Spectral Diagrams and measurement results, vertical polarization (30 MHz to 1 GHz), mode 2



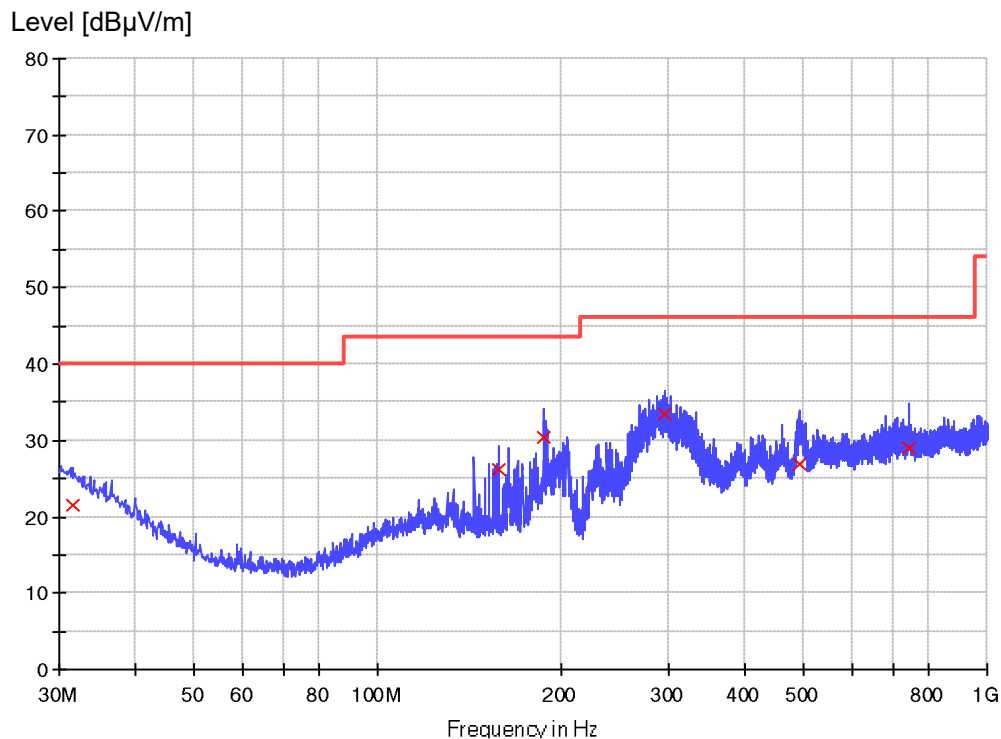
Final Quasi-peak measurement result:

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)
33.880000	33.8	1000.0	120.000	102.0	V	-100.0	23.2	6.2	40.0
34.728750	32.0	1000.0	120.000	165.0	V	-13.0	22.8	8.0	40.0
149.673750	33.3	1000.0	120.000	160.0	V	134.0	17.1	10.2	43.5
158.161250	32.3	1000.0	120.000	112.0	V	13.0	16.9	11.2	43.5
240.005000	32.7	1000.0	120.000	100.0	V	-13.0	18.9	13.3	46.0
523.608750	34.8	1000.0	120.000	187.0	V	52.0	25.3	11.2	46.0

Prüfbericht - Nr.: CN257KFT 001
Test Report No.:

Seite 24 von 36
Page 24 of 36

Figure 11: Spectral Diagrams and measurement results, horizontal polarization (30 MHz to 1 GHz), mode 3



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)
31.576250	21.6	1000.0	120.000	129.0	H	-10.0	24.5	18.5	40.0
158.040000	26.1	1000.0	120.000	184.0	H	32.0	16.9	17.4	43.5
187.625000	30.4	1000.0	120.000	195.0	H	158.0	15.8	13.1	43.5
295.901250	33.3	1000.0	120.000	142.0	H	-100.0	20.4	12.7	46.0
493.781250	26.8	1000.0	120.000	136.0	H	83.0	25.5	19.2	46.0
743.798750	29.0	1000.0	120.000	136.0	H	-15.0	29.1	17.0	46.0

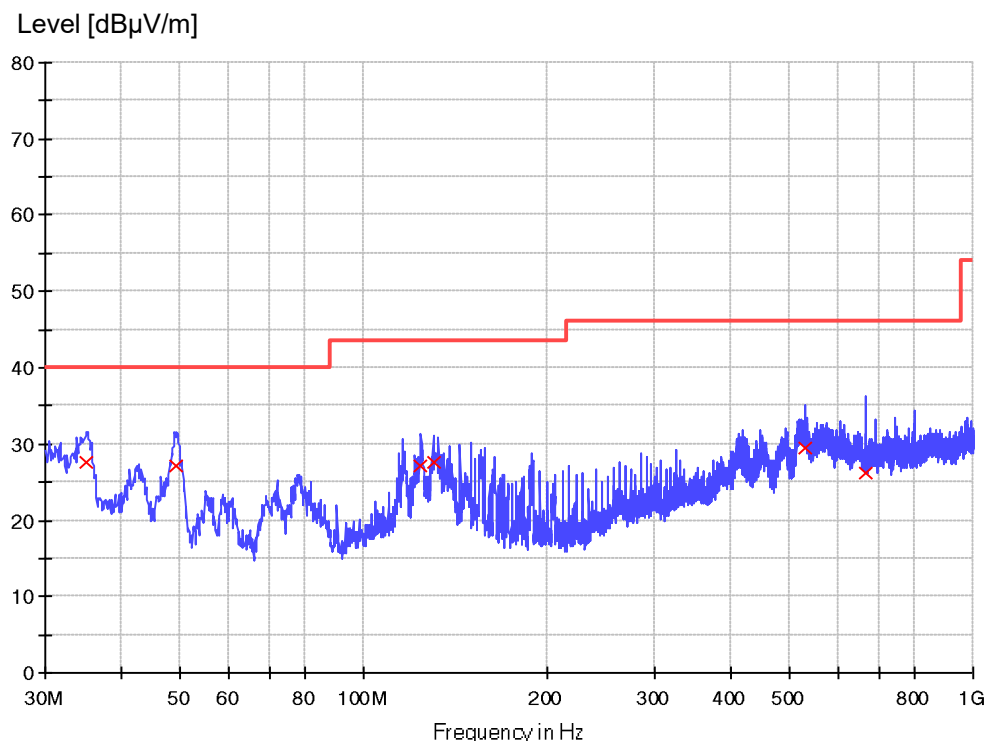
Prüfbericht - Nr.: CN257KFT 001

Test Report No.:

Seite 25 von 36

Page 25 of 36

Figure 12: Spectral Diagrams and measurement results, vertical polarization (30 MHz to 1 GHz), mode 3



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)
35.092500	27.6	1000.0	120.000	196.0	V	129.0	22.6	12.4	40.0
49.157500	27.2	1000.0	120.000	105.0	V	114.0	15.1	12.9	40.0
124.211250	27.2	1000.0	120.000	187.0	V	-34.0	18.7	16.3	43.5
129.910000	27.7	1000.0	120.000	179.0	V	62.0	18.5	15.8	43.5
531.368750	29.5	1000.0	120.000	100.0	V	73.0	25.1	16.5	46.0
666.562500	26.3	1000.0	120.000	156.0	V	129.0	26.6	19.8	46.0

Prüfbericht - Nr.: CN257KFT 001
Test Report No.:

Seite 26 von 36
Page 26 of 36

5.2.2 Radiated emission (Above 1 GHz)

Result:	Passed
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Date of testing	: 2025-09-08
Port	: Enclosure
Test procedure	: FCC 47 CFR Part 15, Subpart B:2023, ANSI C63.4-2014 and CISPR 16-2-3 ICES-003:2020
Limit	: Above 1 GHz, Peak limit: 74 dB μ V/m; Average limit: 54 dB μ V/m
Frequency range	: 1-18 GHz Note: The highest frequency in the EUT is 2.4 GHz. According to FCC Part 15 subpart B §15.33 (b) (1), the upper frequency for radiated emission measurement is 12 GHz. The actual test frequency is up to 18 GHz.
Bandwidth of EMI receiver for final measurement	: 1000 kHz
Measurement time for final measurement	: 1 s
Test distance	: 3 m
Kind of test site	: Semi-anechoic chamber
Operational mode	: Modes 1, 2, 3 as defined in clause 2.3
Input voltage	: AC 120 V; 60 Hz
Earthing	: No earthing
Ambient condition	: Temperature: 23.3 °C; Relative humidity: 57.2 %
Expanded measurement uncertainty ($k=2$)	: 5.08 dB The minimum margin to the limit is 6.3 dB at 17963.343750 MHz and 17959.093750 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 poly table, which is 0.8 m high. The wooden table was rotated 360° around and 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. The final test was performed with peak detector and average detector at those critical frequencies during the preview test. In the following figure, “x(red)” means measurement results with peak detector and “+ (blue)” means measurement results with average detector.

Notes on following tables of radiated emission results and conversions:

Prüfbericht - Nr.: CN257KFT 001

Test Report No.:

Seite 27 von 36

Page 27 of 36

Peak (dB μ V/m): final measurement results by using peak detector

Average (dB μ V/m): final measurement results by using average detector

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

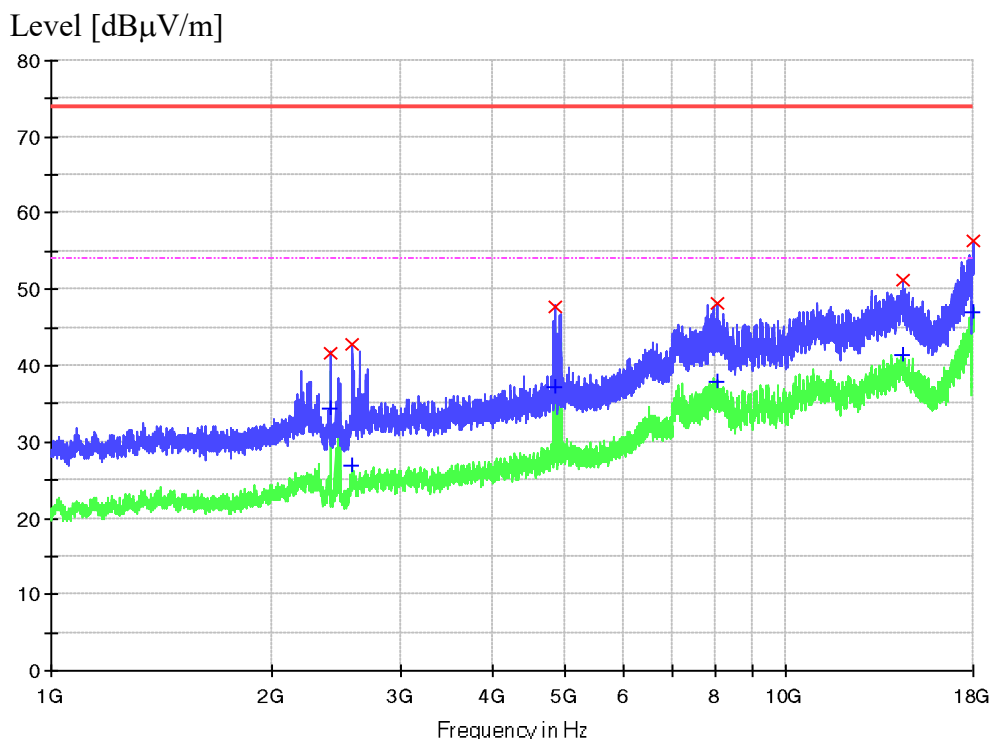
Margin: Limit PK (dB μ V/m) - Peak (dB μ V/m)

Limit CAV (dB μ V/m) – Average (dB μ V/m)

Prüfbericht - Nr.: CN257KFT 001
Test Report No.:

Seite 28 von 36
Page 28 of 36

Figure 13: Spectral Diagrams and measurement results, 1-18 GHz, horizontal polarization, mode 1



Final Peak measurement results:

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
2403.562500	41.6	1000.0	1000.000	121.0	H	95.0	-16.0	32.4	74.0
2575.156250	42.8	1000.0	1000.000	189.0	H	-37.0	-15.8	31.2	74.0
4851.562500	47.7	1000.0	1000.000	191.0	H	-26.0	-11.2	26.3	74.0
8078.906250	48.1	1000.0	1000.000	162.0	H	-29.0	-3.7	25.9	74.0
14406.093750	51.3	1000.0	1000.000	142.0	H	-171.0	2.7	22.7	74.0
17981.406250	56.3	1000.0	1000.000	142.0	H	-25.0	11.8	17.7	74.0

Final Average measurement results:

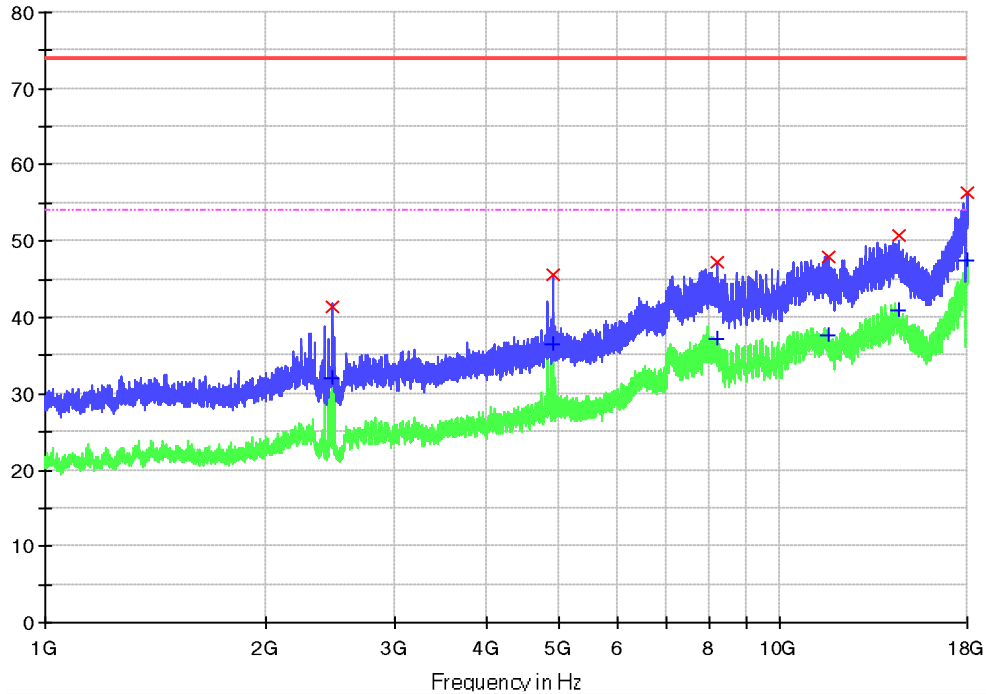
Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
2403.562500	34.4	1000.0	1000.000	121.0	H	95.0	-16.0	19.6	54.0
2575.156250	26.8	1000.0	1000.000	189.0	H	-37.0	-15.8	27.2	54.0
4851.562500	37.2	1000.0	1000.000	191.0	H	-26.0	-11.2	16.8	54.0
8078.906250	37.8	1000.0	1000.000	162.0	H	-29.0	-3.7	16.2	54.0
14406.093750	41.4	1000.0	1000.000	142.0	H	-171.0	2.7	12.6	54.0
17981.406250	47.0	1000.0	1000.000	142.0	H	-25.0	11.8	7.0	54.0

Prüfbericht - Nr.: CN257KFT 001
Test Report No.:

Seite 29 von 36
Page 29 of 36

Figure 14: Spectral Diagrams and measurement results, 1-18 GHz, vertical polarization, mode 1

Level [dB μ V/m]



Final Peak measurement results:

Frequency (MHz)	MaxPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dB μ V/m)
2460.406250	41.5	1000.0	1000.000	200.0	V	-65.0	-16.1	32.6	74.0
4916.375000	45.6	1000.0	1000.000	140.0	V	78.0	-11.1	28.4	74.0
8213.843750	47.2	1000.0	1000.000	115.0	V	17.0	-4.7	26.8	74.0
11671.750000	48.0	1000.0	1000.000	142.0	V	39.0	-2.1	26.0	74.0
14504.906250	50.7	1000.0	1000.000	181.0	V	-46.0	2.7	23.3	74.0
17975.031250	56.3	1000.0	1000.000	178.0	V	115.0	11.7	17.7	74.0

Final Average measurement results:

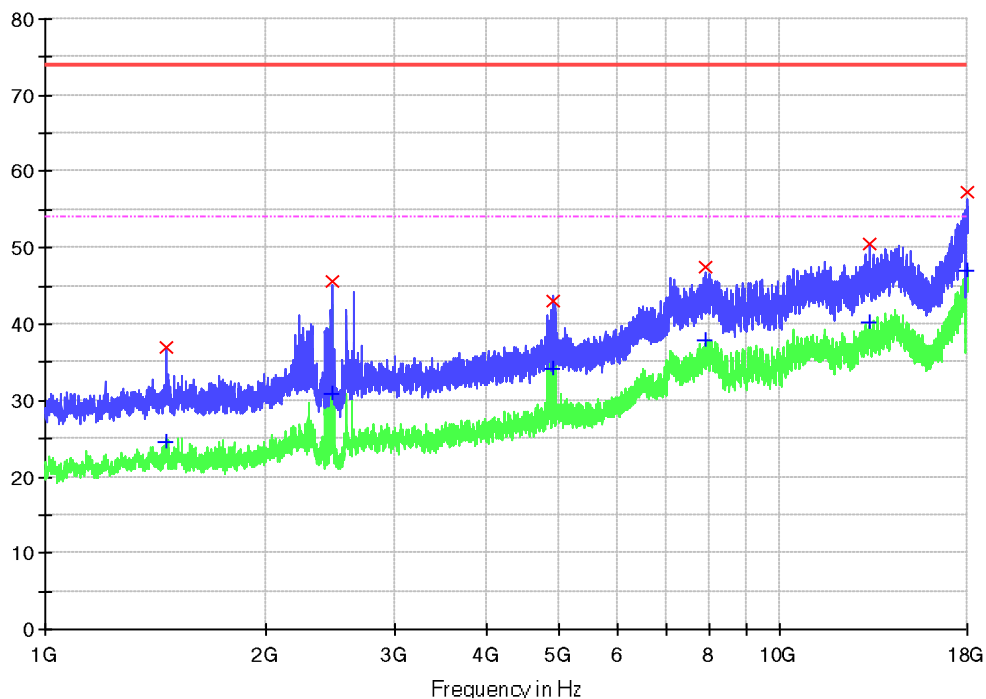
Frequency (MHz)	Average (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dB μ V/m)
2460.406250	32.1	1000.0	1000.000	200.0	V	-65.0	-16.1	21.9	54.0
4916.375000	36.4	1000.0	1000.000	140.0	V	78.0	-11.1	17.6	54.0
8213.843750	37.1	1000.0	1000.000	115.0	V	17.0	-4.7	16.9	54.0
11671.750000	37.7	1000.0	1000.000	142.0	V	39.0	-2.1	16.3	54.0
14504.906250	41.1	1000.0	1000.000	181.0	V	-46.0	2.7	13.0	54.0
17975.031250	47.6	1000.0	1000.000	178.0	V	115.0	11.7	6.4	54.0

Prüfbericht - Nr.: CN257KFT 001
Test Report No.:

Seite 30 von 36
Page 30 of 36

Figure 15: Spectral Diagrams and measurement results, 1-18 GHz, horizontal polarization, mode 2

Level [dBμV/m]



Final Peak measurement results:

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
1462.718750	36.9	1000.0	1000.000	131.0	H	40.0	-18.6	37.1	74.0
2463.062500	45.6	1000.0	1000.000	117.0	H	-69.0	-16.1	28.4	74.0
4912.125000	43.0	1000.0	1000.000	194.0	H	-43.0	-11.1	31.0	74.0
7905.187500	47.4	1000.0	1000.000	112.0	H	-153.0	-3.7	26.6	74.0
13258.062500	50.6	1000.0	1000.000	154.0	H	-84.0	0.2	23.4	74.0
17980.343750	57.3	1000.0	1000.000	193.0	H	157.0	11.8	16.7	74.0

Final Average measurement results:

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
1462.718750	24.6	1000.0	1000.000	131.0	H	40.0	-18.6	29.5	54.0
2463.062500	30.9	1000.0	1000.000	117.0	H	-69.0	-16.1	23.1	54.0
4912.125000	34.2	1000.0	1000.000	194.0	H	-43.0	-11.1	19.8	54.0
7905.187500	37.9	1000.0	1000.000	112.0	H	-153.0	-3.7	16.2	54.0
13258.062500	40.3	1000.0	1000.000	154.0	H	-84.0	0.2	13.7	54.0
17980.343750	47.0	1000.0	1000.000	193.0	H	157.0	11.8	7.0	54.0

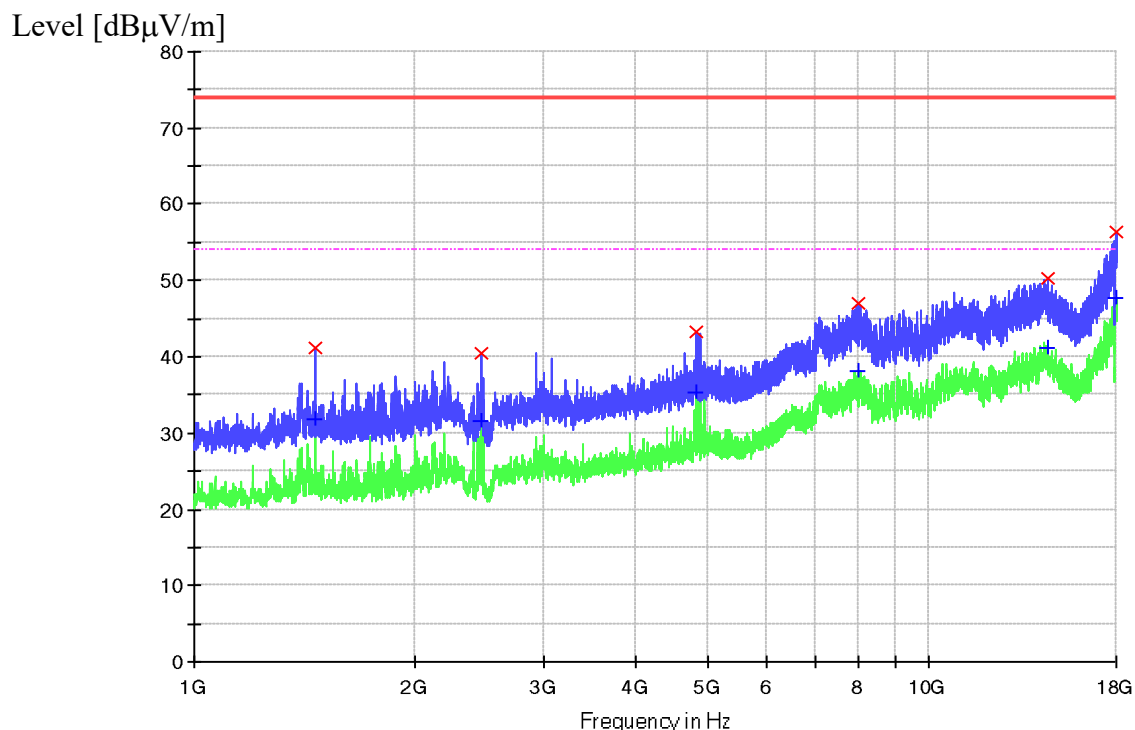
Prüfbericht - Nr.: CN257KFT 001

Test Report No.:

Seite 31 von 36

Page 31 of 36

Figure 16: Spectral Diagrams and measurement results, 1-18 GHz, vertical polarization, mode 2



Final Peak measurement results:

Frequency (MHz)	MaxPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dB μ V/m)
1460.062500	41.2	1000.0	1000.000	128.0	V	122.0	-18.6	32.8	74.0
2460.937500	40.6	1000.0	1000.000	172.0	V	177.0	-16.1	33.4	74.0
4835.093750	43.3	1000.0	1000.000	180.0	V	-23.0	-11.2	30.7	74.0
8040.656250	47.1	1000.0	1000.000	166.0	V	33.0	-3.5	27.0	74.0
14507.562500	50.2	1000.0	1000.000	109.0	V	-31.0	2.7	23.8	74.0
17959.093750	56.3	1000.0	1000.000	168.0	V	24.0	11.4	17.7	74.0

Final Average measurement results:

Frequency (MHz)	Average (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dB μ V/m)
1460.062500	31.8	1000.0	1000.000	128.0	V	122.0	-18.6	22.2	54.0
2460.937500	31.6	1000.0	1000.000	172.0	V	177.0	-16.1	22.4	54.0
4835.093750	35.4	1000.0	1000.000	180.0	V	-23.0	-11.2	18.6	54.0
8040.656250	38.0	1000.0	1000.000	166.0	V	33.0	-3.5	16.0	54.0
14507.562500	41.1	1000.0	1000.000	109.0	V	-31.0	2.7	12.9	54.0
17959.093750	47.7	1000.0	1000.000	168.0	V	24.0	11.4	6.3	54.0

Prüfbericht - Nr.: CN257KFT 001

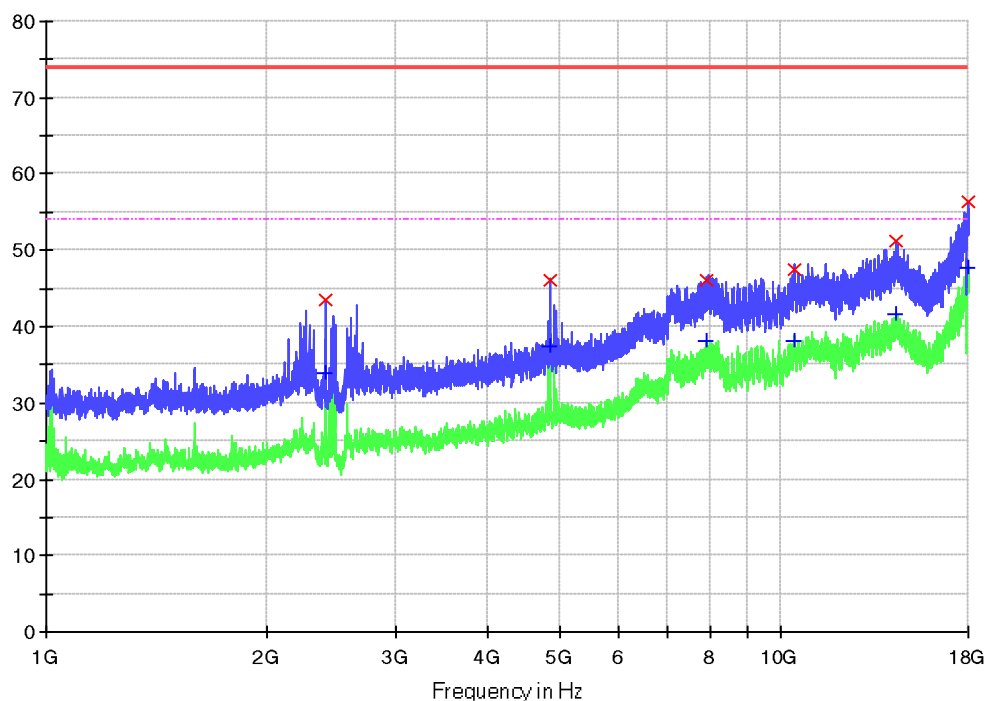
Test Report No.:

Seite 32 von 36

Page 32 of 36

Figure 17: Spectral Diagrams and measurement results, 1-18 GHz, horizontal polarization, mode 3

Level [dBμV/m]



Final Peak measurement results:

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
2401.968750	43.6	1000.0	1000.000	165.0	H	89.0	-16.0	30.4	74.0
4846.250000	46.2	1000.0	1000.000	131.0	H	118.0	-11.2	27.8	74.0
7909.437500	46.1	1000.0	1000.000	186.0	H	-103.0	-3.7	27.9	74.0
10434.468750	47.6	1000.0	1000.000	116.0	H	22.0	-2.0	26.4	74.0
14341.281250	51.2	1000.0	1000.000	163.0	H	-3.0	2.5	22.8	74.0
17963.343750	56.4	1000.0	1000.000	175.0	H	-39.0	11.5	17.6	74.0

Final Average measurement results:

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
2401.968750	34.0	1000.0	1000.000	165.0	H	89.0	-16.0	20.0	54.0
4846.250000	37.4	1000.0	1000.000	131.0	H	118.0	-11.2	16.6	54.0
7909.437500	38.2	1000.0	1000.000	186.0	H	-103.0	-3.7	15.9	54.0
10434.468750	38.0	1000.0	1000.000	116.0	H	22.0	-2.0	16.0	54.0
14341.281250	41.6	1000.0	1000.000	163.0	H	-3.0	2.5	12.4	54.0
17963.343750	47.7	1000.0	1000.000	175.0	H	-39.0	11.5	6.3	54.0

Prüfbericht - Nr.: CN257KFT 001

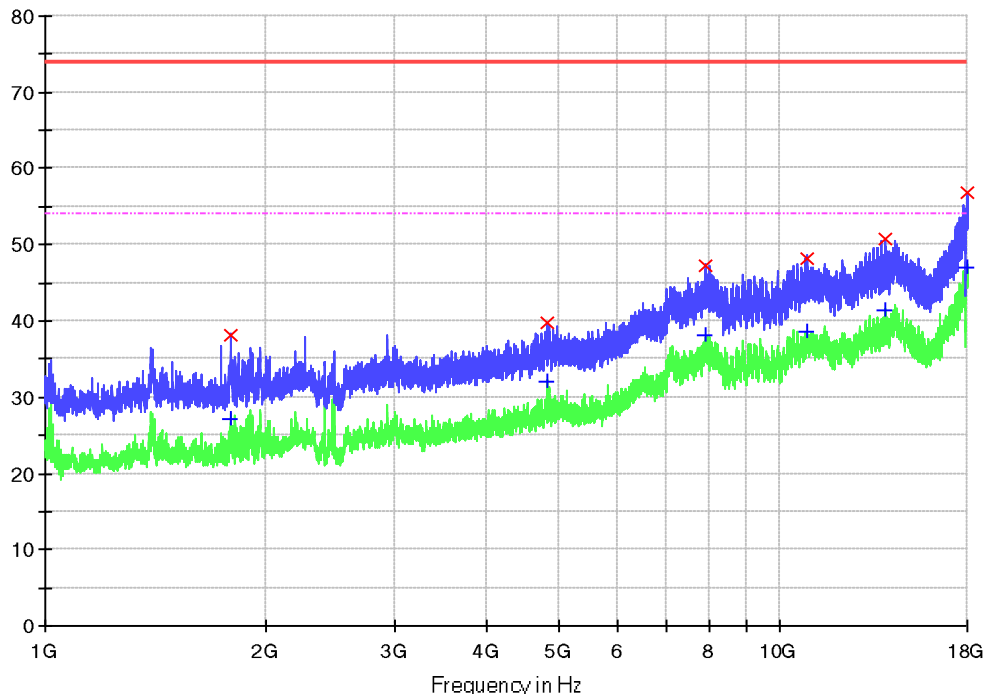
Test Report No.:

Seite 33 von 36

Page 33 of 36

Figure 18: Spectral Diagrams and measurement results, 1-18 GHz, vertical polarization, mode 3

Level [dBμV/m]



Final Peak measurement results:

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
1792.625000	38.1	1000.0	1000.000	172.0	V	-29.0	-18.8	35.9	74.0
4836.156250	39.8	1000.0	1000.000	181.0	V	131.0	-11.2	34.2	74.0
7924.843750	47.3	1000.0	1000.000	121.0	V	-171.0	-3.6	26.7	74.0
10868.500000	48.2	1000.0	1000.000	152.0	V	-180.0	-1.7	25.8	74.0
13892.375000	50.8	1000.0	1000.000	144.0	V	-128.0	1.0	23.2	74.0
17978.750000	56.8	1000.0	1000.000	125.0	V	-20.0	11.8	17.2	74.0

Final Average measurement results:

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
1792.625000	27.3	1000.0	1000.000	172.0	V	-29.0	-18.8	26.8	54.0
4836.156250	32.1	1000.0	1000.000	181.0	V	131.0	-11.2	21.9	54.0
7924.843750	38.2	1000.0	1000.000	121.0	V	-171.0	-3.6	15.9	54.0
10868.500000	38.5	1000.0	1000.000	152.0	V	-180.0	-1.7	15.5	54.0
13892.375000	41.4	1000.0	1000.000	144.0	V	-128.0	1.0	12.6	54.0
17978.750000	47.0	1000.0	1000.000	125.0	V	-20.0	11.8	7.1	54.0

Prüfbericht - Nr.: CN257KFT 001
Test Report No.:

Seite 34 von 36
Page 34 of 36

6 Photographs of the Test Set-Up

Refer to the test setup file.

Prüfbericht - Nr.: CN257KFT 001
Test Report No.:

Seite 35 von 36
Page 35 of 36

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	2025-08-02	2026-08-02
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	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	2025-07-11	2026-07-11
EMC-C-161	Spectrum analyser	FSV40	101258	Rohde & Schwarz	2025-07-11	2026-07-11
EMC-C-019	Double ridged horn antenna	BBHA 9120 D	9120D-433	Schwarzbeck	2025-02-28	2026-08-28

8 List of Figures

Figure 1: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L, mode 1	12
Figure 2: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N, mode 1	13
Figure 3: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L, mode 2	14
Figure 4: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N, mode 2	15
Figure 5: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L, mode 3	16
Figure 6: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N, mode 3	17
Figure 7: Spectral Diagrams and measurement results, horizontal polarization (30 MHz to 1 GHz), mode 1	20
Figure 8: Spectral Diagrams and measurement results, vertical polarization (30 MHz to 1 GHz), mode 1	21
Figure 9: Spectral Diagrams and measurement results, horizontal polarization (30 MHz to 1 GHz), mode 2	22
Figure 10: Spectral Diagrams and measurement results, vertical polarization (30 MHz to 1 GHz), mode 2	23
Figure 11: Spectral Diagrams and measurement results, horizontal polarization (30 MHz to 1 GHz), mode 3	24
Figure 12: Spectral Diagrams and measurement results, vertical polarization (30 MHz to 1 GHz), mode 3	25
Figure 13: Spectral Diagrams and measurement results, 1-18 GHz, horizontal polarization, mode 1	28
Figure 14: Spectral Diagrams and measurement results, 1-18 GHz, vertical polarization, mode 1	29
Figure 15: Spectral Diagrams and measurement results, 1-18 GHz, horizontal polarization, mode 2	30
Figure 16: Spectral Diagrams and measurement results, 1-18 GHz, vertical polarization, mode 2	31
Figure 17: Spectral Diagrams and measurement results, 1-18 GHz, horizontal polarization, mode 3	32
Figure 18: Spectral Diagrams and measurement results, 1-18 GHz, vertical polarization, mode 3	33

End of test report