

Prüfbericht-Nr.: <i>Test report no.:</i>	CN25IT0Q 001	Auftrags-Nr.: <i>Order no.:</i>	326140632	Seite 1 von 29 <i>Page 1 of 29</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	1288983	Auftragsdatum: <i>Order date:</i>	2025-11-24	
Auftraggeber: <i>Client:</i>	IKEA of Sweden AB Box 702, SE-343 81 Älmhult, Sweden			
Prüfgegenstand: <i>Test item:</i>	LED Ceiling Lamp			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	T2504			
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-005:2018 ICES-003:2020			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2025-12-15	Refer to the EUT photos file		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A004163520-004			
Prüfzeitraum: <i>Testing period:</i>	2025-12-29~2026-01-06			
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 ng Liu	
Datum: <i>Date:</i>	Ausstellungsdatum: <i>Issue date:</i>			
Stellung / Position:	Stellung / Position:			
Sonstiges / <i>Other:</i>	FCC ID: FHO-T2504 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 specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
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Anmerkungen
Remarks

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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
CN25IT0Q 001	2026-04-04	Initial release.

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1 Test Sites

1.1 Test Facilities

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

Address: Workshop14, North Half of Workshop 10 and Workshop 16, Pingqian (Taicang)
Modern Industrial Park, No.525, Yuewang Lingang South Road, Shaxi, Taicang, Jiangsu,
China

The 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 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 LED ceiling lamp with wireless dimming function for lighting and similar use. For further information, refer to the user's manual.

2.3 Ratings and System Details

Rated input : AC 120 V, 60 Hz,
Rated power : 27 W

2.4 Independent Operation Modes

The basic operation modes are: "ON" and "OFF" with dimming.
The test modes are as follows:

- Mode 1: EUT was illuminated and shifted color with max. lighting output.
- Mode 2: EUT was illuminated and shifted color with min. lighting output.

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 2480 MHz for wireless module.

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.

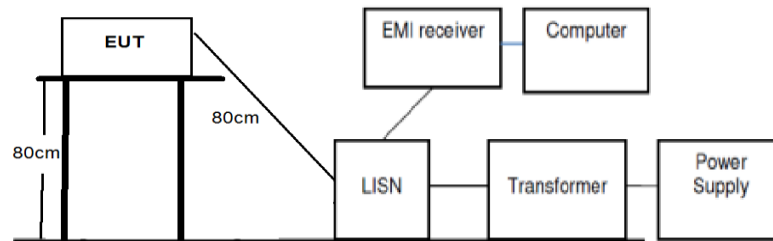
Refer to the related paragraph of this report.

The sequence of testing:

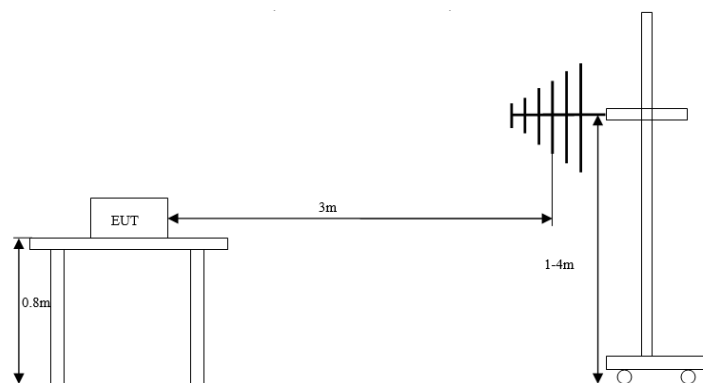
1. Conducted emission tests were performed on 2025-12-29.
2. Radiated emission tests were performed on 2025-12-29~2026-01-06.

3.2 Equipment and cable arrangement

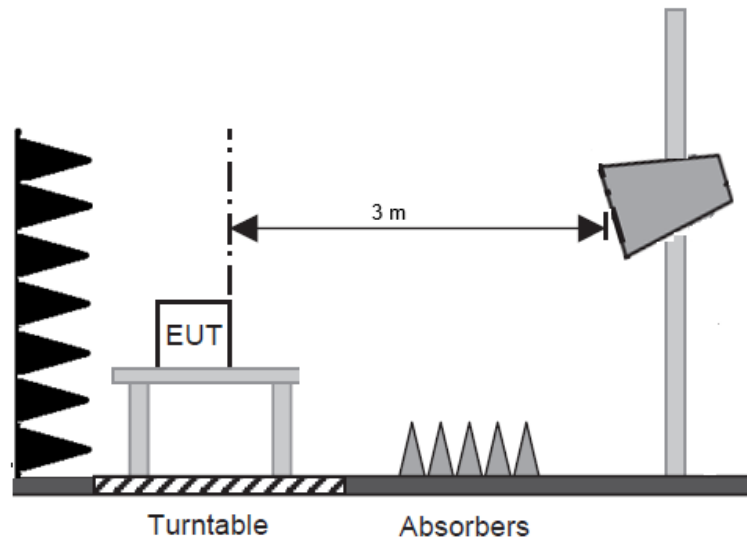
Block diagram for both conducted emission and radiated emission tests is as follows:



(Conducted emission)



(Radiated emission 30-1000 MHz)



(Radiated emission 1-18 GHz)

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

3.3 Test Software

The “Home” APP for iPhone was used during the tests for color shifting and dimming.

3.4 Special Accessories and Auxiliary Equipment

During the tests, the following auxiliary equipment were used.

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

3.5 Countermeasures to achieve EMC Compliance

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	: 2025-12-29	
Test procedure	: FCC 47 CFR Part 15, Subpart B:2024, ICES-005:2018, ICES-003:2020, ANSI C63.4-2014 and CISPR 16-2-1	
Frequency range	: 0.15 – 30 MHz	
Limits	: Quasi-peak limit: 0.15 – 0.5 MHz, 66 to 56 dB μ V (decrease with the logarithm of frequency); 0.5 – 5 MHz, 56 dB μ V; 5 – 30 MHz, 60 dB μ V Average limit: 0.15 – 0.5 MHz, 56 to 46 dB μ V (decrease with the logarithm of frequency); 0.5 – 5 MHz, 46 dB μ V; 5 – 30 MHz, 50 dB μ V	
Bandwidth of EMI receiver for final measurement	: 9 kHz	
Measurement time for final measurement	: 1 s	
Kind of test site	: Shielded room	
Input voltage	: AC 120 V, 60 Hz	
Operational mode	: Mode 1~ Mode 2, defined in clause 2.3 (The worst case was found by prescanning cold, warm, red, green and blue colour with max and min lighting output, only the test data of worst case was recorded in the report)	
Ambient condition	: Temperature: 19.3 °C; Relative humidity: 52.2 %	
Expanded measurement uncertainty ($k=2$)	: 2.33 dB The minimum margin to the limit is 7.15 dB at 0.208500 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.

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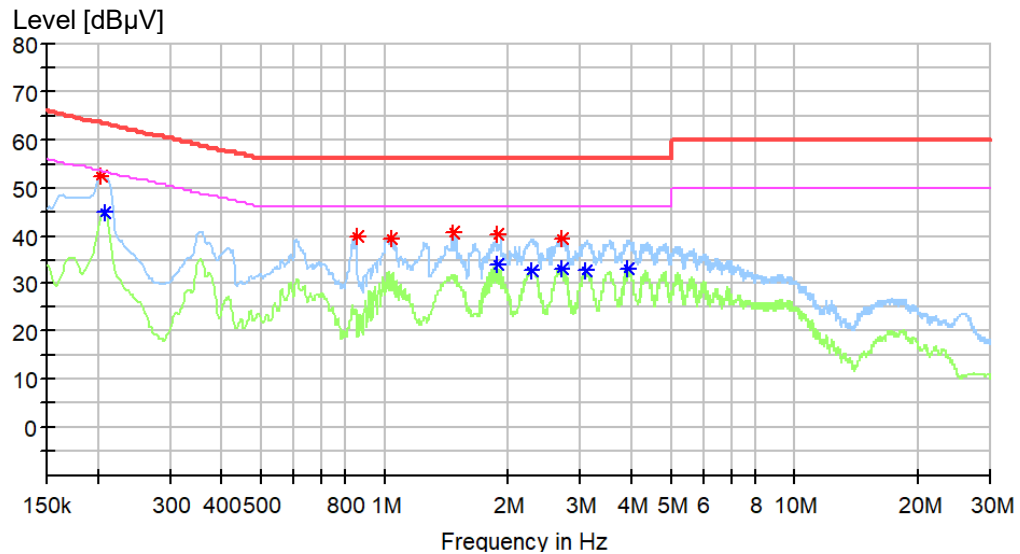
The following figures and tables were measured by an automatic measuring system. Both quasi-peak and average measurements were performed. In the following spectral diagram, “*” means Quasi-Peak Value and “*” means Average Value results.

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 on mode 1


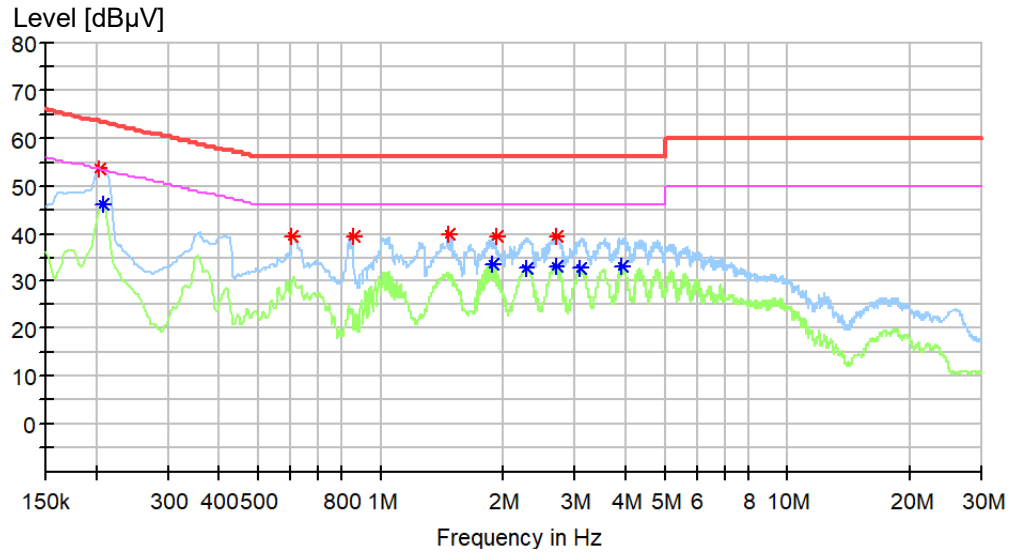
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line
0.204000	52.46	63.45	10.98	L1
0.854250	39.74	56.00	16.26	L1
1.041000	39.37	56.00	16.63	L1
1.464000	40.48	56.00	15.52	L1
1.880250	40.27	56.00	15.73	L1
2.706000	39.23	56.00	16.77	L1

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line
0.208500	44.92	53.27	8.35	L1
1.880250	33.91	46.00	12.09	L1
2.283000	32.79	46.00	13.21	L1
2.703750	33.20	46.00	12.80	L1
3.106500	32.65	46.00	13.35	L1
3.930000	33.12	46.00	12.88	L1

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



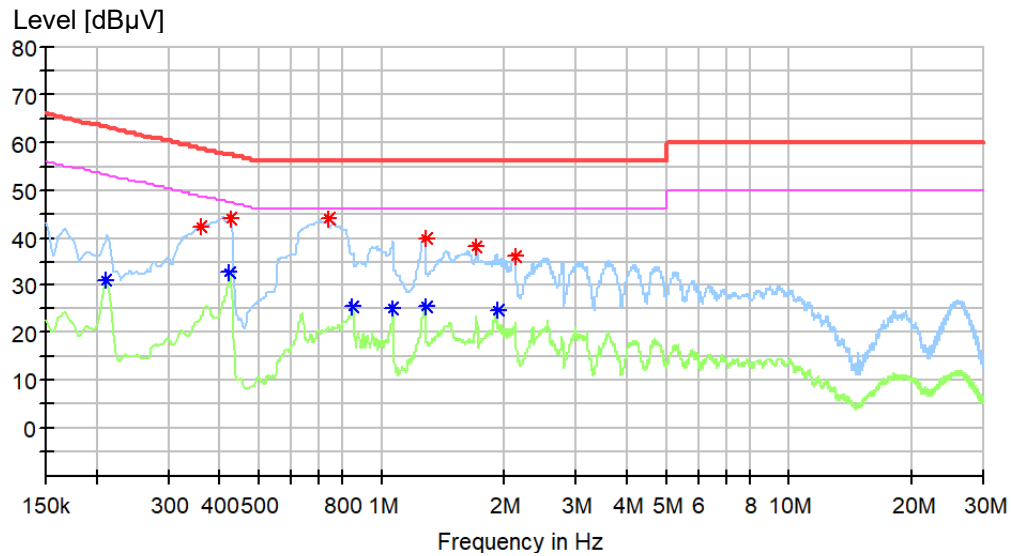
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line
0.204000	53.70	63.45	9.74	N
0.606750	39.31	56.00	16.69	N
0.854250	39.25	56.00	16.75	N
1.464000	40.00	56.00	16.00	N
1.925250	39.20	56.00	16.80	N
2.701500	39.25	56.00	16.75	N

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line
0.208500	46.11	53.27	7.15	N
1.878000	33.57	46.00	12.43	N
2.280750	32.69	46.00	13.31	N
2.701500	33.14	46.00	12.86	N
3.104250	32.64	46.00	13.36	N
3.925500	33.10	46.00	12.90	N

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



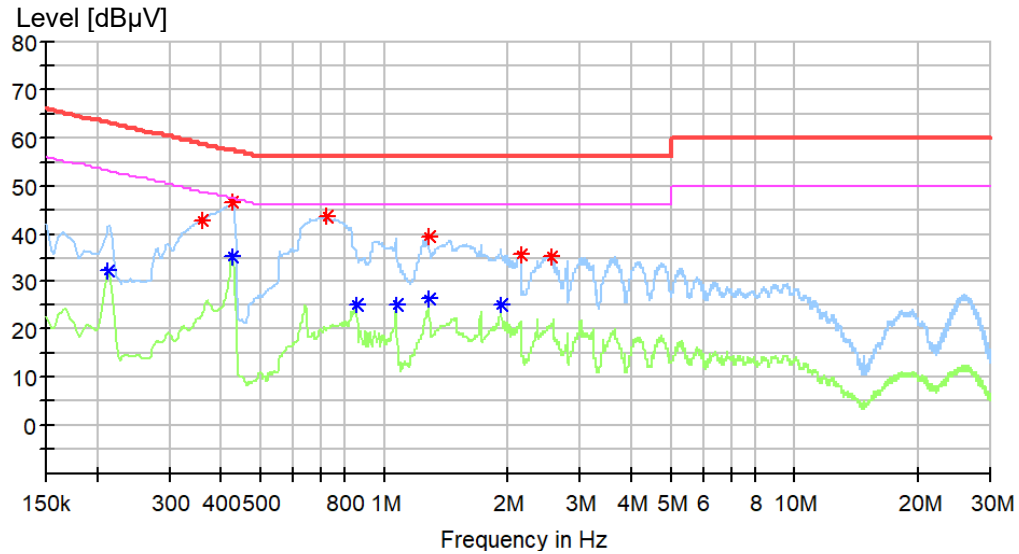
Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line
0.361500	42.31	58.69	16.39	L1
0.426750	44.04	57.32	13.27	L1
0.737250	43.88	56.00	12.12	L1
1.281750	39.63	56.00	16.37	L1
1.709250	38.02	56.00	17.98	L1
2.134500	36.01	56.00	19.99	L1

Final average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line
0.210750	30.93	53.18	22.25	L1
0.424500	32.62	47.36	14.74	L1
0.852000	25.39	46.00	20.61	L1
1.065750	25.02	46.00	20.98	L1
1.279500	25.61	46.00	20.39	L1
1.918500	24.71	46.00	21.29	L1

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



Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Line
0.361500	42.71	58.69	15.99	N
0.429000	46.62	57.27	10.65	N
0.728250	43.50	56.00	12.50	N
1.288500	39.21	56.00	16.79	N
2.145750	35.47	56.00	20.53	N
2.562000	35.40	56.00	20.60	N

Final average measurement result:

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line
0.213000	32.14	53.09	20.95	N
0.426750	35.35	47.32	11.97	N
0.856500	25.10	46.00	20.90	N
1.072500	25.18	46.00	20.82	N
1.286250	26.37	46.00	19.63	N
1.932000	25.11	46.00	20.89	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	: 2025-12-29
Test procedure	: FCC 47 CFR Part 15, Subpart B:2024, ICES-005:2018, ICES-003:2020, ANSI C63.4-2014 and CISPR 16-2-3
Product classification	: Class B
Frequency range	: 30 – 1000 MHz
Limits	: Quasi-peak limits (3 m distance): 30 – 88 MHz, 40 dB μ V/m; 88 – 216 MHz, 43.5 dB μ V/m; 216 – 1000 MHz, 46 dB μ V/m (see Note)
Bandwidth of EMI receiver for final measurement	: 120 kHz
Measurement time for final measurement	: 1 s
Kind of test site	: Semi-anechoic chamber
Input voltage	: AC 120 V, 60 Hz
Operational mode	: Mode 1 ~ Mode 2, defined in clause 2.3 (The worst case was found by prescanning cold, warm, red, green and blue color with max and min lighting output, only the test data of worst case was recorded in the report)
Ambient condition	: Temperature: 21.3 °C; Relative humidity: 54.4 %
Expanded measurement uncertainty ($k=2$)	: 5.40 dB The minimum margin to the limit is 6.5 dB at 38.123750 MHz and 45.762500 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.

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Notes on following tables of radiated emission results and conversions:

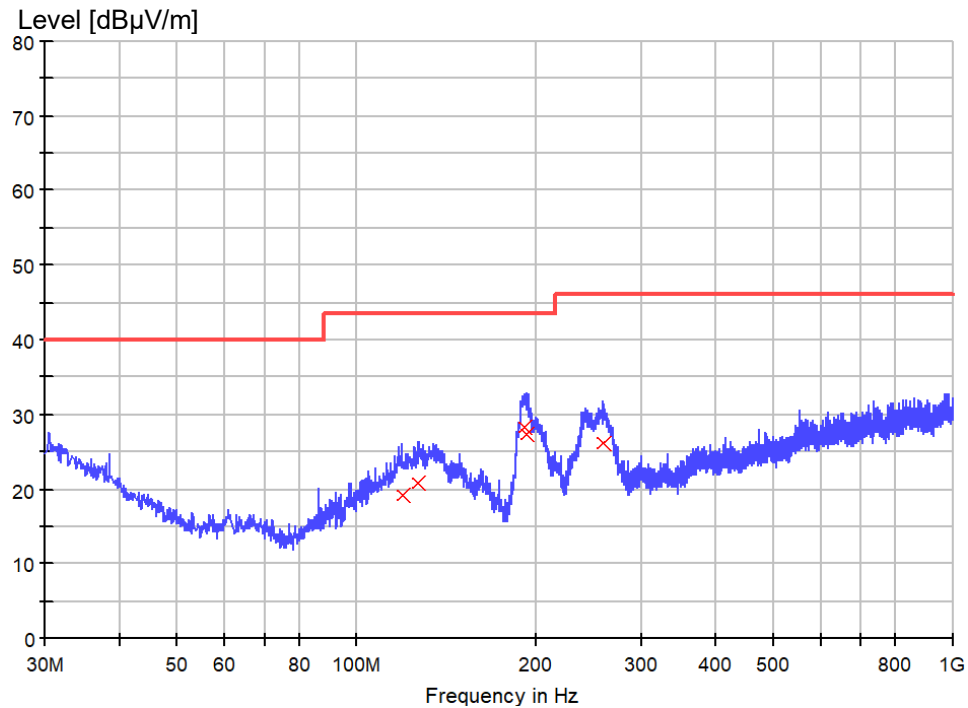
QuasiPeak (dB μ V/m): final measurement results by using quasi-peak detector

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

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

Note: The class B limits of ICES-005:2018 is stricter than those FCC 47 CFR Part 15, Subpart B:2024 and ICES-003:2020 for 3 m test distance. Therefore, the former limits are used in following figures and tables.

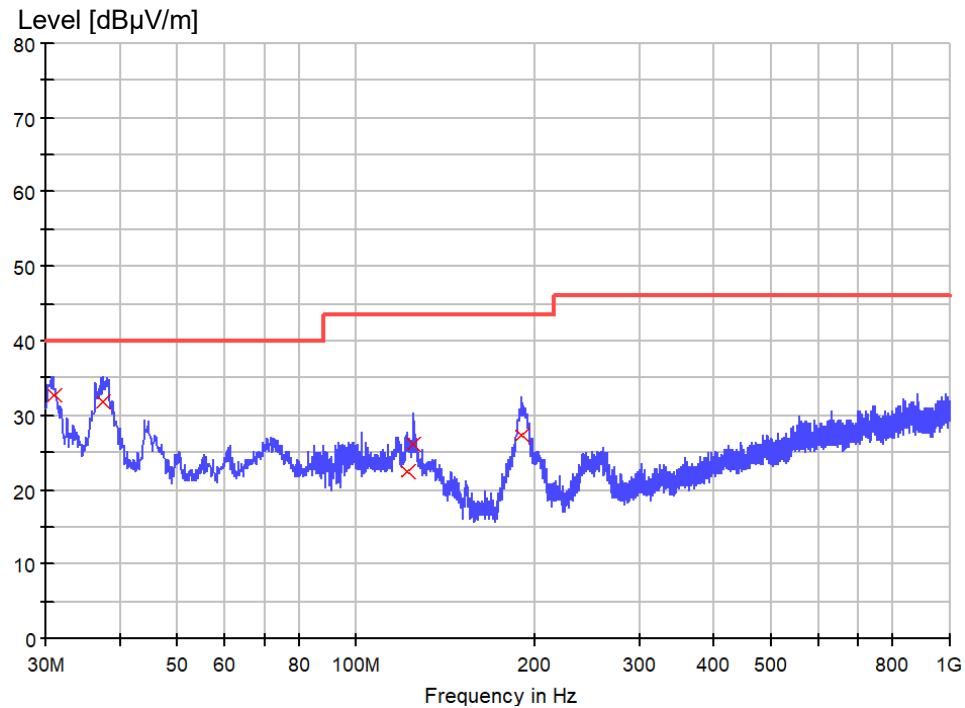
Figure 5: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 1



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)
118.876250	19.3	120.000	146.0	H	99.0	18.8	24.2	43.5
126.878750	20.8	120.000	160.0	H	72.0	18.6	22.7	43.5
190.777500	28.3	120.000	163.0	H	-151.0	15.8	15.2	43.5
193.323750	27.4	120.000	141.0	H	-87.0	15.8	16.1	43.5
259.890000	26.2	120.000	120.0	H	-67.0	21.4	19.8	46.0

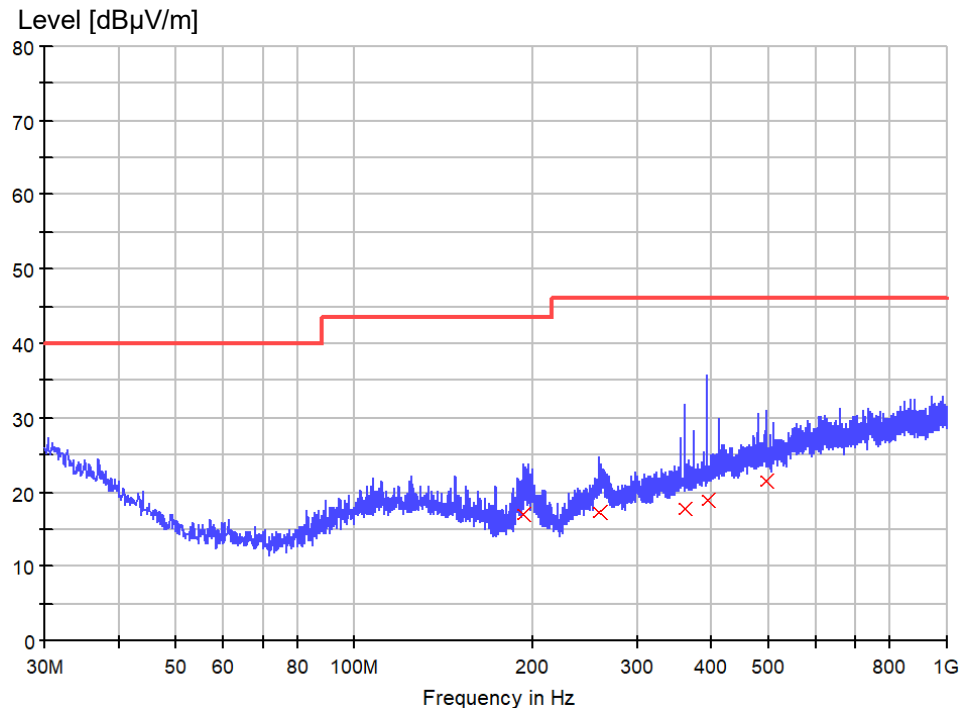
Figure 6: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Vertical polarization on mode 1



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)
30.848750	32.8	120.000	158.0	V	-78.0	25.0	7.2	40.0
37.396250	31.7	120.000	115.0	V	81.0	21.3	8.3	40.0
121.543750	22.4	120.000	133.0	V	-141.0	18.7	21.1	43.5
124.938750	26.3	120.000	181.0	V	55.0	18.7	17.3	43.5
190.292500	27.5	120.000	116.0	V	-47.0	15.8	16.0	43.5

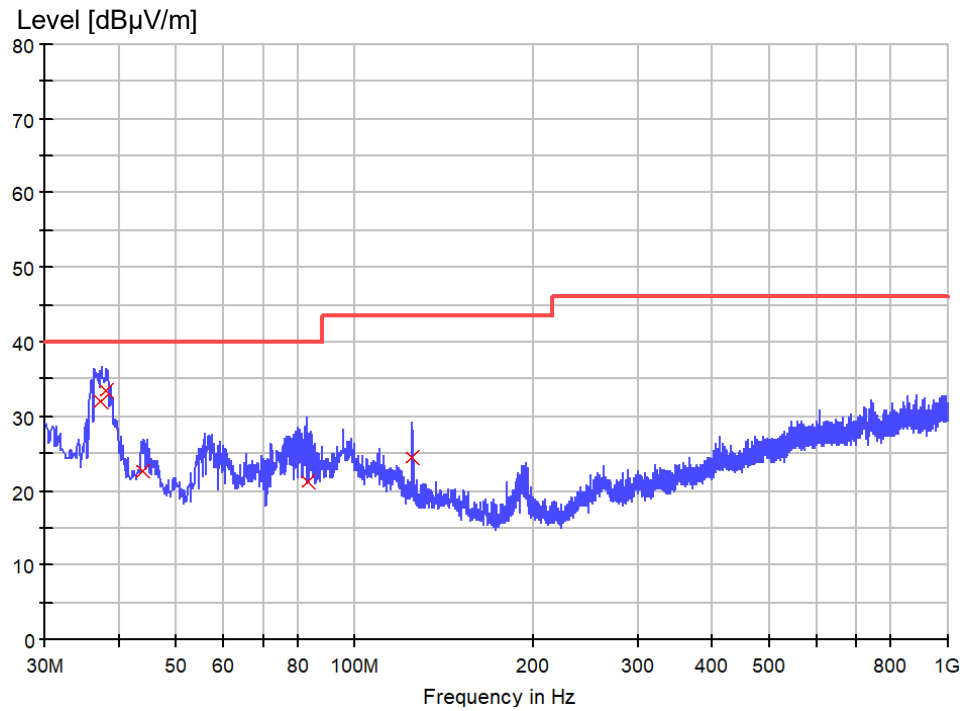
Figure 7: Spectral Diagrams, Radiated Emission, 30 MHz – 1000 MHz, Horizontal polarization on mode 2



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)
193.081250	17.0	120.000	118.0	H	129.0	15.8	26.5	43.5
258.677500	17.2	120.000	110.0	H	8.0	21.1	28.8	46.0
361.861250	17.9	120.000	198.0	H	179.0	22.0	28.1	46.0
395.083750	19.0	120.000	196.0	H	-75.0	22.9	27.0	46.0
494.145000	21.5	120.000	104.0	H	-118.0	25.4	24.5	46.0

Figure 8: 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)
37.153750	32.1	120.000	113.0	V	118.0	21.4	7.9	40.0
38.123750	33.5	120.000	172.0	V	-150.0	20.8	6.5	40.0
43.580000	22.7	120.000	106.0	V	75.0	17.8	17.3	40.0
82.986250	21.3	120.000	191.0	V	90.0	14.2	18.7	40.0
124.938750	24.5	120.000	148.0	V	39.0	18.7	19.1	43.5

5.2.2 Radiated Emission (1-18 GHz)

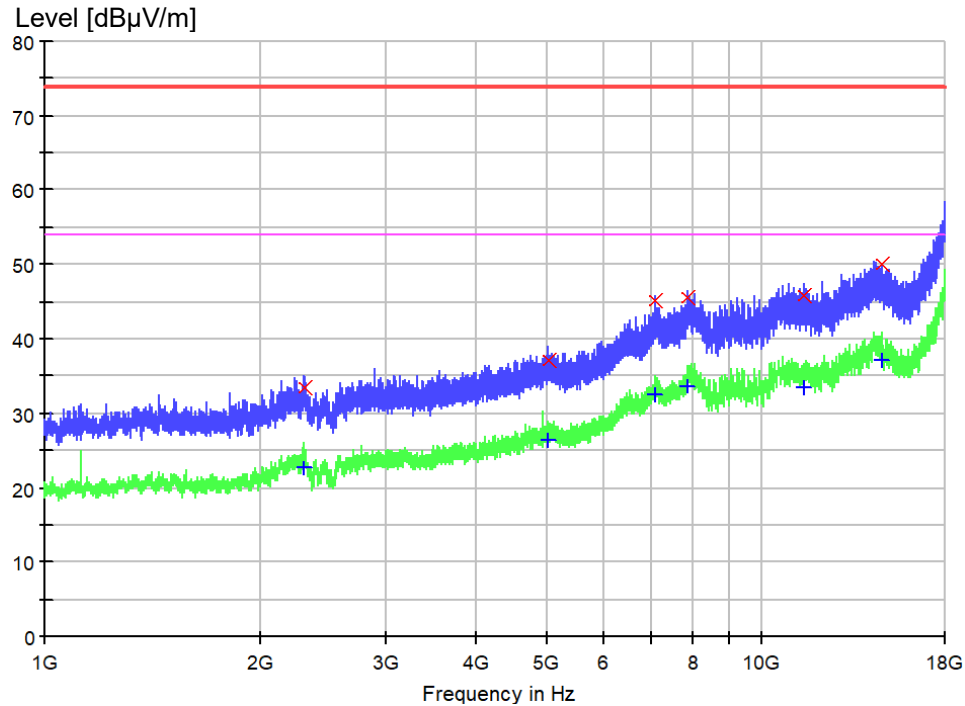
Result:
Passed

Date of testing	: 2026-01-06
Port	: Enclosure
Test procedure	: FCC 47 CFR Part 15, Subpart B:2024, ICES-005:2018, ICES-003:2020, ANSI C63.4-2014 and CISPR 16-2-3
Product classification	: Class B
Limit	: Peak limits (3 m distance): 1-18 GHz, 74 dB μ V/m Average limits (3 m distance): 1-18 GHz, 54 dB μ V/m
Frequency range	: 1 – 18 GHz (see Note)
Kind of test site	: Absorber-lined semi-anechoic chamber
Test distance	: 3 m
Test voltage	: AC 120 V, 60 Hz
Operational mode	: Mode 1 ~ Mode 2, defined in clause 2.3 (The worst case was found by prescanning cold, warm, red, green and blue color with max and min lighting output, only the test data of worst case was recorded in the report)
Earthing	: No earth
Ambient condition	: Temperature: 21.3 °C; Relative humidity: 54.4 %
Expanded measurement uncertainty ($k=2$)	: 5.17 dB (1 GHz~6 GHz) 5.12 dB (6 GHz~18 GHz) The minimum margin to the limit is 20.8 dB at 11583.562500 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 an absorber-lined semi-anechoic chamber. The test distance from the receiving antenna to the EUT is 3 m. The site voltage standing wave ratio (S_{VSWR}) of the absorber-lined semi-anechoic chamber is regularly calibrated to ensure the radiated disturbance test results are valid. During the test, the EUT was placed on an 80 cm supporting table. And the supporting table was rotated 360° around, the receiving antenna was kept aiming at the EUT and its height was varied from 1 m to 4 m to find the maximum disturbance. The test was performed with the antenna both in its horizontal and vertical polarizations.

The following figures and tables were 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, “ $\times$ ” and “ $+$ ” means measurement results with peak detector and average detector.

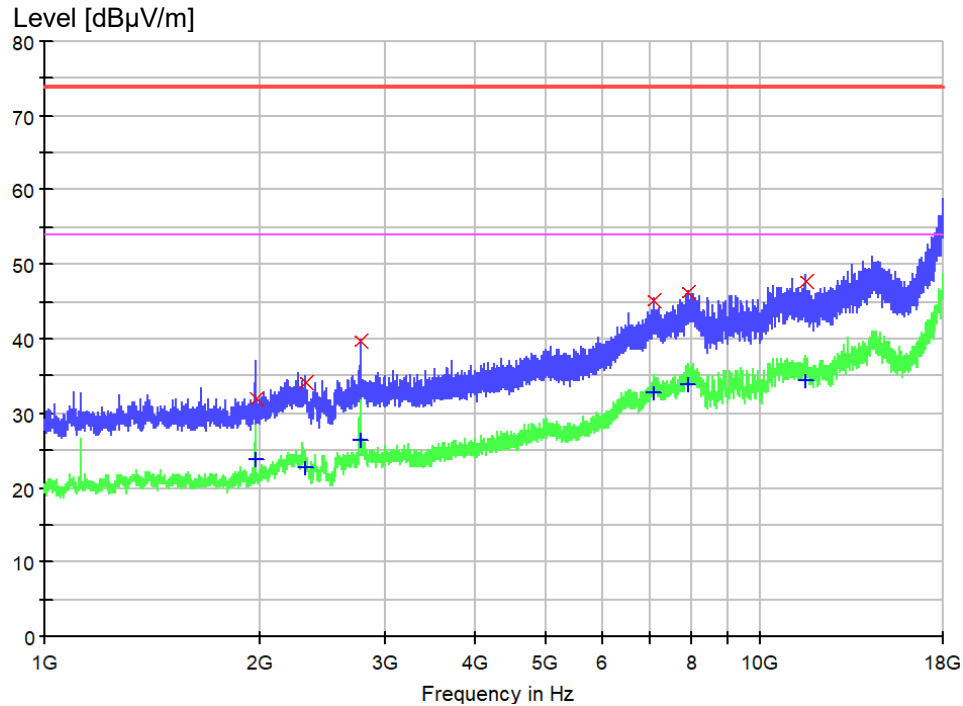
Note: The highest frequency in the EUT is 2480 MHz. According to FCC Part 15 subpart B §15.33 (b) (1) and ICES-003:2020 table 3, the upper frequency for radiated emission measurement is 18 GHz.

Figure 9: Spectral Diagrams and measurement results, 1 GHz – 18 GHz, Horizontal polarization on mode 1

Final peak measurement result:

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)
2306.343750	33.4	1000.0	1000.000	103.0	H	-18.0	-15.8	40.6	74.0
5038.031250	37.1	1000.0	1000.000	106.0	H	-172.0	-10.8	36.9	74.0
7096.625000	45.0	1000.0	1000.000	152.0	H	17.0	-5.1	29.0	74.0
7887.656250	45.6	1000.0	1000.000	151.0	H	-150.0	-3.9	28.4	74.0
11473.062500	45.9	1000.0	1000.000	161.0	H	110.0	-1.6	28.1	74.0
14698.812500	50.2	1000.0	1000.000	147.0	H	1.0	2.4	23.9	74.0

Final average measurement result:

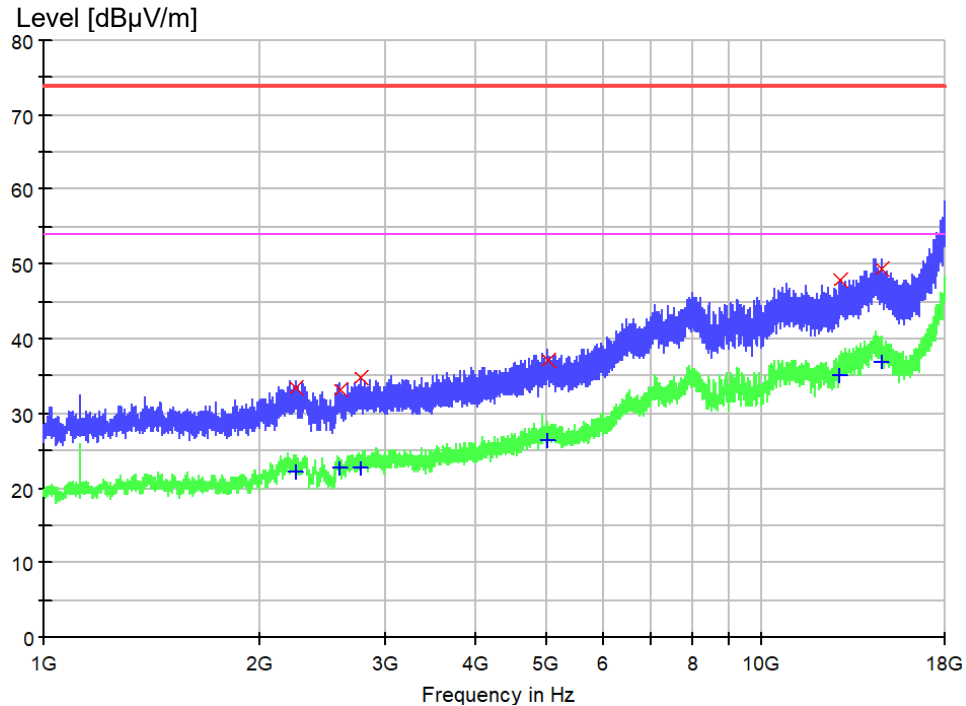
Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
2306.343750	22.8	1000.0	1000.000	121.0	H	-27.0	-15.8	31.2	54.0
5038.031250	26.4	1000.0	1000.000	187.0	H	-33.0	-10.8	27.6	54.0
7096.625000	32.5	1000.0	1000.000	105.0	H	73.0	-5.1	21.5	54.0
7887.656250	33.8	1000.0	1000.000	125.0	H	7.0	-3.9	20.2	54.0
11473.062500	33.3	1000.0	1000.000	172.0	H	-70.0	-1.6	20.7	54.0
14698.812500	37.1	1000.0	1000.000	108.0	H	45.0	2.4	16.9	54.0

Figure 10: Spectral Diagrams and measurement results, 1 GHz – 18 GHz, Vertical polarization on mode 1

Final peak measurement result:

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)
1970.593750	32.1	1000.0	1000.000	124.0	V	16.0	-17.9	41.9	74.0
2314.843750	34.1	1000.0	1000.000	160.0	V	-176.0	-15.8	39.9	74.0
2756.843750	39.7	1000.0	1000.000	130.0	V	144.0	-15.2	34.3	74.0
7116.281250	45.1	1000.0	1000.000	169.0	V	-180.0	-5.0	28.9	74.0
7905.187500	46.4	1000.0	1000.000	148.0	V	178.0	-3.7	27.6	74.0
11568.156250	47.6	1000.0	1000.000	182.0	V	158.0	-1.7	26.4	74.0

Final average measurement result:

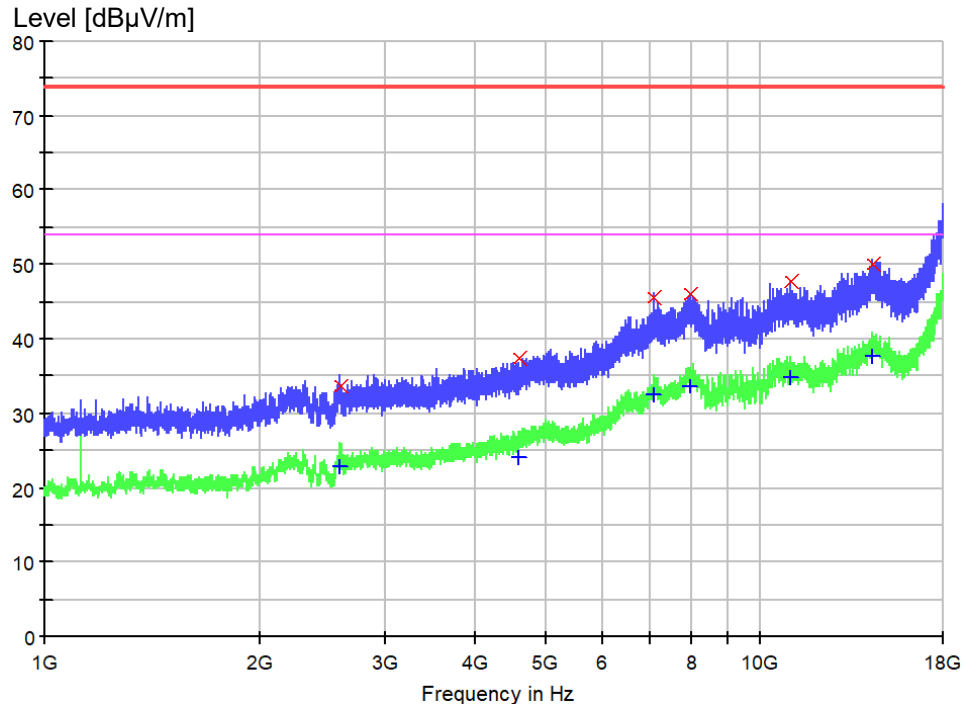
Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
1970.593750	23.9	1000.0	1000.000	148.0	V	-174.0	-17.9	30.1	54.0
2314.843750	22.6	1000.0	1000.000	106.0	V	-43.0	-15.8	31.4	54.0
2756.843750	26.5	1000.0	1000.000	178.0	V	-159.0	-15.2	27.5	54.0
7116.281250	32.7	1000.0	1000.000	136.0	V	-177.0	-5.0	21.3	54.0
7905.187500	34.0	1000.0	1000.000	107.0	V	-134.0	-3.7	20.0	54.0
11568.156250	34.5	1000.0	1000.000	181.0	V	126.0	-1.7	19.5	54.0

Figure 11: Spectral Diagrams and measurement results, 1 GHz – 18 GHz, Horizontal polarization on mode 2

Final peak measurement result:

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)
2240.468750	33.4	1000.0	1000.000	137.0	H	17.0	-15.6	40.6	74.0
2577.281250	33.2	1000.0	1000.000	166.0	H	-34.0	-15.8	40.8	74.0
2762.687500	34.8	1000.0	1000.000	139.0	H	-141.0	-15.2	39.2	74.0
5038.031250	37.3	1000.0	1000.000	117.0	H	-77.0	-10.8	36.7	74.0
12860.687500	48.0	1000.0	1000.000	168.0	H	144.0	-0.3	26.0	74.0
14679.156250	49.5	1000.0	1000.000	180.0	H	-30.0	2.4	24.6	74.0

Final average measurement result:

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)
2240.468750	22.3	1000.0	1000.000	117.0	H	140.0	-15.6	31.7	54.0
2577.281250	22.8	1000.0	1000.000	184.0	H	-60.0	-15.8	31.2	54.0
2762.687500	22.7	1000.0	1000.000	115.0	H	127.0	-15.2	31.4	54.0
5038.031250	26.3	1000.0	1000.000	132.0	H	28.0	-10.8	27.7	54.0
12860.687500	35.2	1000.0	1000.000	152.0	H	-137.0	-0.3	18.9	54.0
14679.156250	37.0	1000.0	1000.000	147.0	H	150.0	2.4	17.0	54.0

Figure 12: Spectral Diagrams and measurement results, 1 GHz – 18 GHz, Vertical polarization on mode 2

Final peak measurement result:

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)
2586.843750	33.8	1000.0	1000.000	101.0	V	-19.0	-15.8	40.2	74.0
4589.125000	37.3	1000.0	1000.000	137.0	V	-103.0	-12.2	36.7	74.0
7117.343750	45.5	1000.0	1000.000	134.0	V	73.0	-5.0	28.5	74.0
7949.281250	46.2	1000.0	1000.000	116.0	V	48.0	-3.5	27.8	74.0
11024.156250	47.7	1000.0	1000.000	192.0	V	-120.0	-1.7	26.3	74.0
14340.750000	50.1	1000.0	1000.000	103.0	V	84.0	2.5	23.9	74.0

Final average measurement result:

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)
2586.843750	22.9	1000.0	1000.000	144.0	V	81.0	-15.8	31.1	54.0
4589.125000	24.2	1000.0	1000.000	103.0	V	178.0	-12.2	29.9	54.0
7117.343750	32.5	1000.0	1000.000	170.0	V	94.0	-5.0	21.5	54.0
7949.281250	33.8	1000.0	1000.000	156.0	V	74.0	-3.5	20.2	54.0
11024.156250	34.8	1000.0	1000.000	132.0	V	150.0	-1.7	19.2	54.0
14340.750000	37.7	1000.0	1000.000	163.0	V	-126.0	2.5	16.3	54.0

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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-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-028	EMI measurement software	EMC32-E+ (10.60.20)	100150	Rohde & Schwarz	N/A	N/A
EMC-C-066	EMI test receiver	ESCI	100280	Rohde & Schwarz	2025-09-28	2026-09-28
EMC-C-121	Thermohygrometer	608-H1	1241320265	testo	2025-06-05	2026-06-05
EMC-C-155	BiLog antenna	CBL 6112D	40530	Teseq	2025-03-24	2026-09-24
EMC-S-032	EMI measurement software	EMC32-MEB (10.60.20)	100697	Rohde & Schwarz	N/A	N/A
EMC-C-001	3 m semi-anechoic chamber	SAC3	FJ129002	Frankonia	2023-12-03	2026-12-03
EMC-C-038	Spectrum analyzer	FSP30	100192	Rohde & Schwarz	2025-07-11	2026-07-11
EMC-C-161	Spectrum analyser	FSV40	101258	Rohde & Schwarz	2025-07-11	2026-07-11
EMC-C-175	Preamplifier	EMC051845SE	980612	EMCI Taiwan	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

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End of test report