

Prüfbericht-Nr.: Test Report No.:	CN26AF5X 001	Auftrags-Nr.: Order No.:	326173166	Seite 1 von 22 Page 1 of 22
Kunden-Referenz-Nr.: Client Reference No.:	1288983	Auftragsdatum: Order date.:	2026-02-11	
Auftraggeber: Client:	IKEA of Sweden AB Box 702, SE-343 81, Älmhult Sweden			
Prüfgegenstand: Test item:	Remote control (Dual button)			
Bezeichnung / Typ-Nr.: Identification / Type No.:	E2622			
Auftrags-Inhalt: Order content:	TÜV Rheinland EMC service			
Prüfgrundlage: Test specification:	FCC 47 CFR Part 15, Subpart B:2024 Class B ICES-003:2020			
Wareneingangsdatum: Date of receipt:	2026-02-12	Refer to the EUT photos file		
Prüfmuster-Nr.: Test sample No.:	A004209706-010			
Prüfzeitraum: Testing period:	2026-03-25			
Ort der Prüfung: Place of testing:	Refer to clause 1.1			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: / tested by: <i>XueLan Zhang</i> XueLan Zhang		genehmigt von: / authorized by: <i>JiaYi Zhou</i> JiaYi Zhou		
Datum: / Date: 2026-05-20		Ausstellungsdatum: / Issue date: 2026-05-20		
Stellung: / Position: Project engineer		Stellung: / Position: Authorizer		
Sonstiges / Other:	FCC ID: FHO-E2622 IC: 10912A-E2622 Test Firm Name: TUV Rheinland (Shanghai) Co., Ltd. Designation Number: CN1396 Test Firm Registration Number: 930979			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested				
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Anmerkungen
Remarks

- | | |
|----------|--|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.
Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system.</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.
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 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p> |

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Revision history of test report:

Report number	Issue date	Contents and reason for change if appropriate
CN26AF5X 001	2026-05-20	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 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.

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2 General Product Information

2.1 Manufacturer Information

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

2.2 Product Function and Intended Use

The EUT (equipment under test) is a Remote control (Dual button). For the further information, refer to the user's manual.

2.3 Ratings and System Details

Rated input : 2.4 V/3.0 V, 2*AAA

2.4 Independent Operation Modess

The basic operation mode is on by 2.4 GHz wireless connection.

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 2.4 GHz.

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.

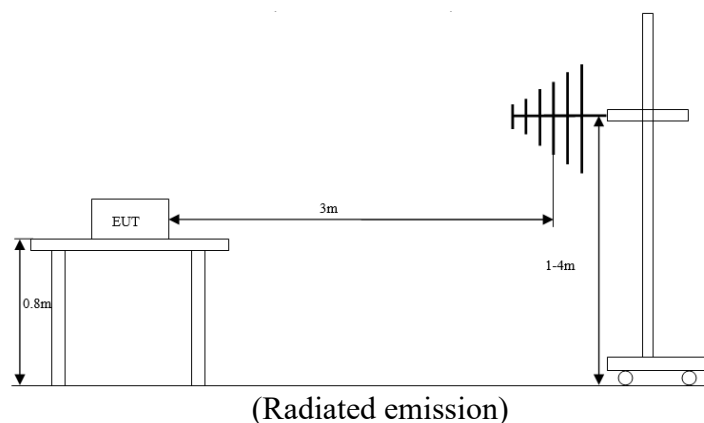
Refer to the related paragraph of this report.

The sequence of testing:

1. Radiated emission tests were performed on 2026-03-25.

3.2 Equipment and cable arrangement

Block diagram for radiated emission test is as follows:



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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	Lamp	B2502	IKEA

3.5 Countermeasures to achieve EMC Compliance

No other special measure is employed to achieve the requirement.

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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 above 30 MHz

5.1.1 Radiated emission (30 MHz - 1 GHz)

Result:		Passed
Date of testing	: 2026-03-25	
Test procedure	: FCC 47 CFR Part 15, Subpart B:2024, 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	: Mode as defined in clause 2.4	
Input voltage	: 2*AAA (see Note 2)	
Ambient condition	: Temperature: 21.3 °C; Relative humidity: 52.2 %	
Expanded measurement uncertainty ($k=2$)	: 5.40 dB The minimum margin to the limit is 11.21 dB at 30.363750 MHz. The margin is higher than expanded measurement uncertainty.	
Test setup photo	: Photograph 2 of Attachment 1	

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.

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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:2024 is stricter than those ICES-003:2020 for 3 m test distance. Therefore, the former limits are used in following figures and tables.

Note 2: After the pretest on the voltage of DC 2.4 V and DC 3 V, only the data of worst case was shown in the report.

Notes on following tables of radiated emission results and conversions:

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

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

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

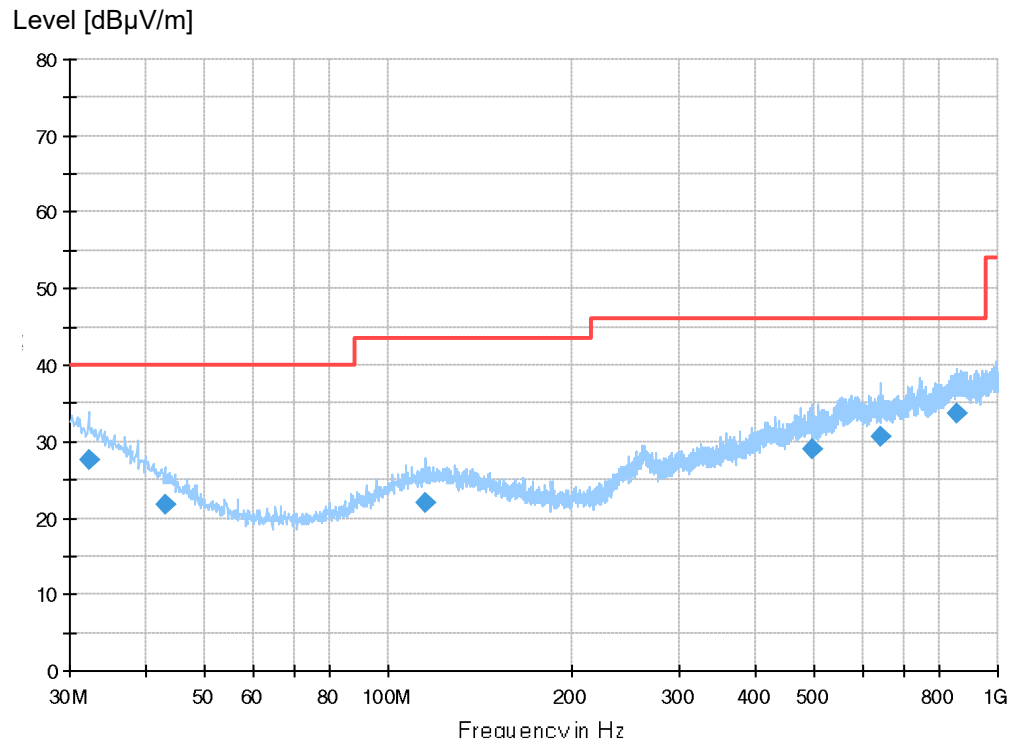
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Figure 1: Spectral Diagrams and measurement results, horizontal polarization (30 MHz to 1 GHz)



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
32.182500	27.70	40.00	12.30	1000.0	120.000	100.0	H	10.0
42.973750	21.67	40.00	18.34	1000.0	120.000	275.0	H	132.0
114.996250	21.97	43.50	21.53	1000.0	120.000	178.0	H	-105.0
494.387500	28.91	46.00	17.09	1000.0	120.000	178.0	H	17.0
642.070000	30.64	46.00	15.36	1000.0	120.000	220.0	H	36.0
854.621250	33.59	46.00	12.41	1000.0	120.000	150.0	H	-83.0

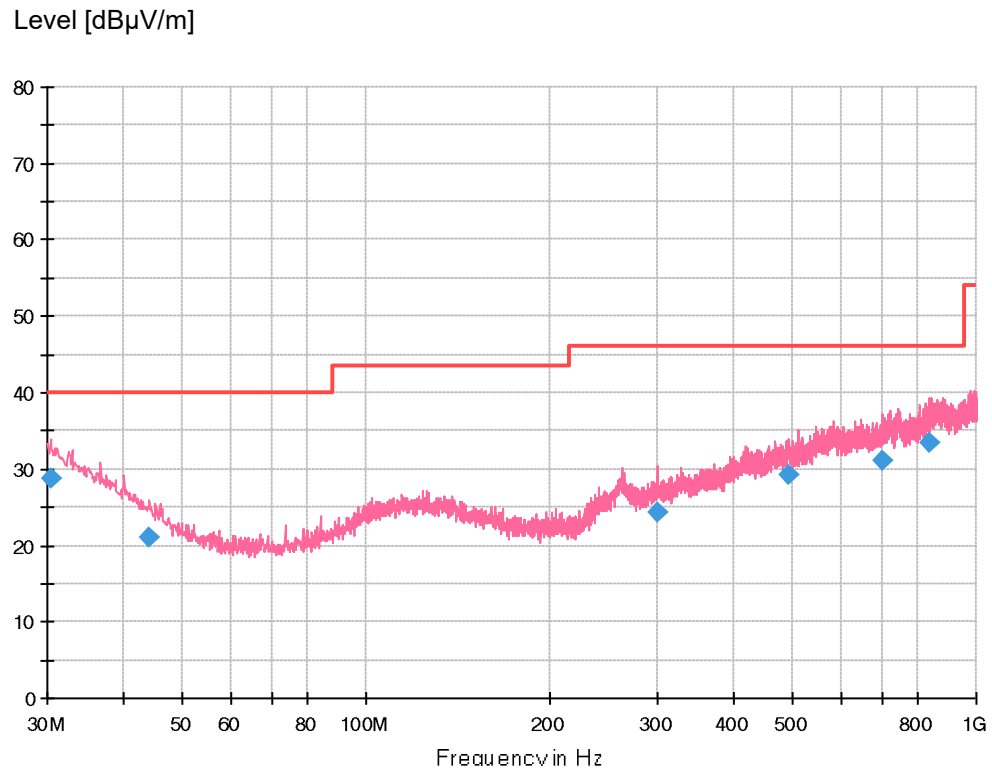
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Figure 2: Spectral Diagrams and measurement results, vertical polarization (30 MHz to 1 GHz)



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
30.363750	28.79	40.00	11.21	1000.0	120.000	216.0	V	-83.0
44.186250	21.06	40.00	18.94	1000.0	120.000	118.0	V	2.0
300.751250	24.36	46.00	21.64	1000.0	120.000	187.0	V	82.0
491.477500	29.21	46.00	16.79	1000.0	120.000	100.0	V	-82.0
703.907500	31.05	46.00	14.95	1000.0	120.000	173.0	V	-180.0
839.465000	33.43	46.00	12.57	1000.0	120.000	130.0	V	-67.0

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5.1.2 Radiated emission (Above 1 GHz)

Result:	Passed
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Date of testing	: 2026-03-25
Port	: Enclosure
Test procedure	: FCC 47 CFR Part 15, Subpart B:2024, 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	: Mode as defined in clause 2.4
Input voltage	: 2*AAA (see Note 1)
Earthing	: No earthing
Ambient condition	: Temperature: 21.3 °C; Relative humidity: 52.2 %
Expanded measurement uncertainty ($k=2$)	: 5.08 dB The minimum margin to the limit is 6.09 dB at 17998.625000 MHz. The margin is higher than expanded measurement uncertainty.
Test setup photo	: Photograph 2 of Attachment 1

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, “*” means measurement results with peak detector and “*” means measurement results with average detector.

Notes on following tables of radiated emission results and conversions:

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

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

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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)

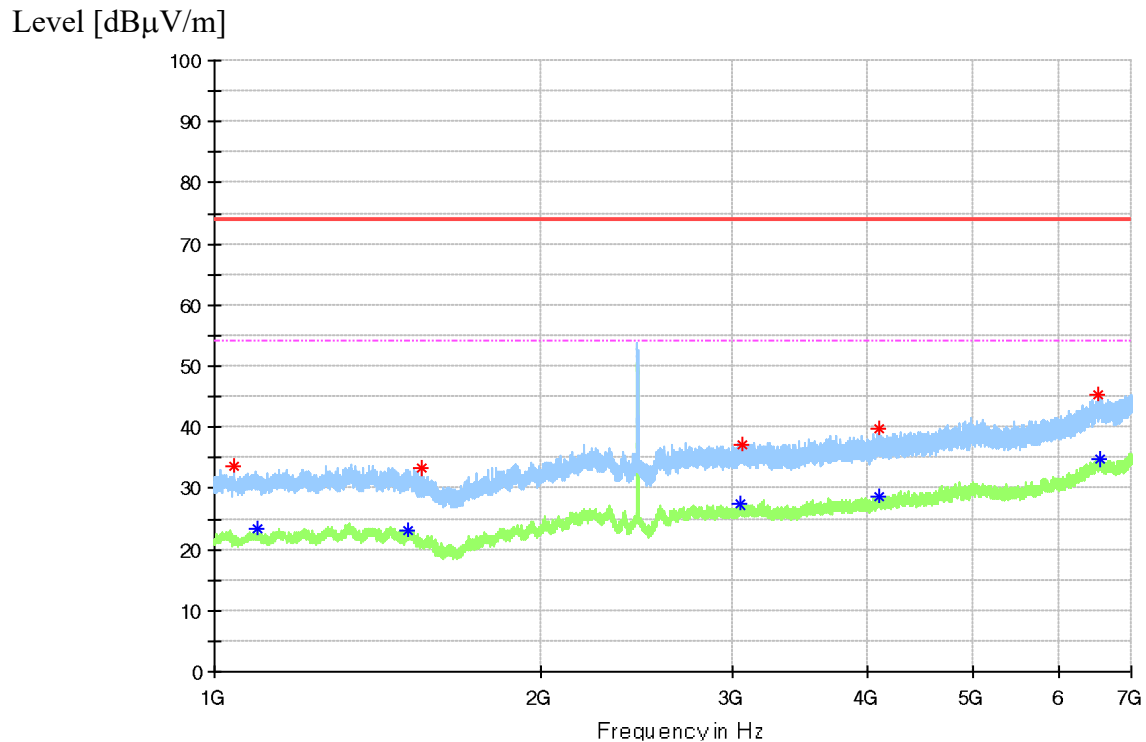
Limit CAV (dB μ V/m) – Average (dB μ V/m)

Note 1: After the pretest on the voltage of DC 2.4 V and DC 3 V, only the data of worst case was shown in the report.

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Figure 3: Spectral Diagrams and measurement results, 1-7 GHz, horizontal polarization



Final Peak measurement results:

Frequency (MHz)	MaxPeak (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
1041.812500	33.59	40.41	1000.0	1000.000	100.0	H	-138.0
1552.750000	33.31	40.69	1000.0	1000.000	100.0	H	-165.0
3060.250000	36.99	37.01	1000.0	1000.000	100.0	H	131.0
4097.125000	39.71	34.29	1000.0	1000.000	100.0	H	142.0
6532.750000	45.36	28.64	1000.0	1000.000	100.0	H	107.0

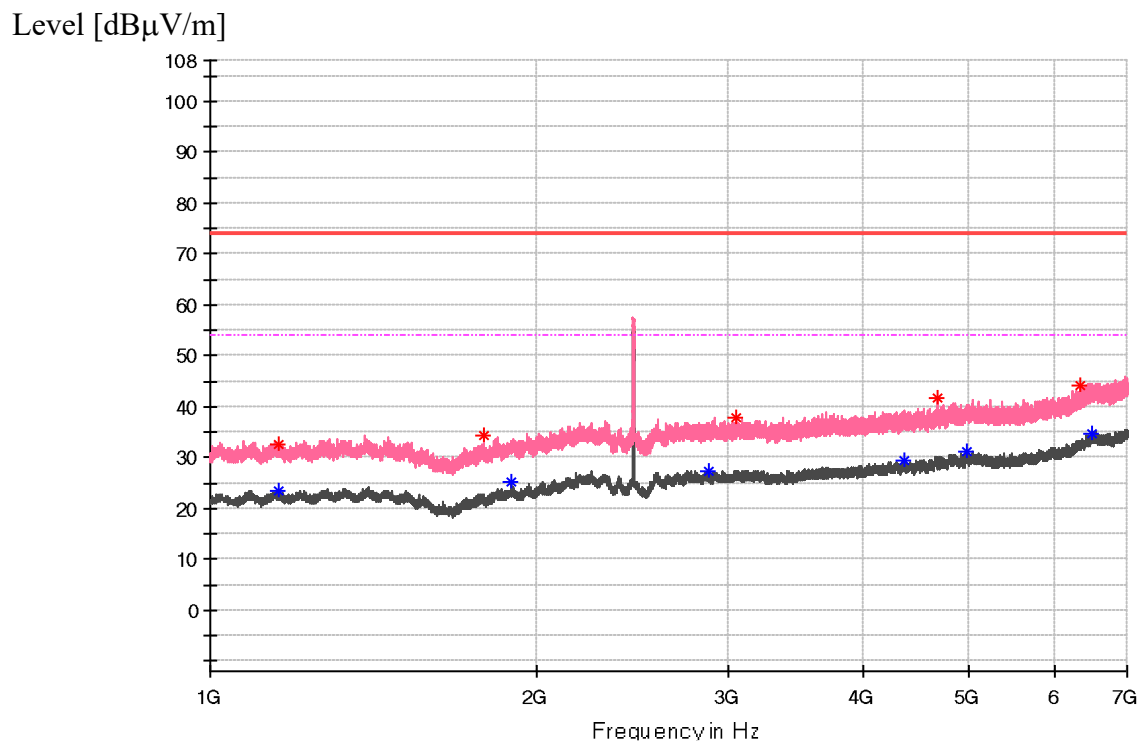
Final Average measurement results:

Frequency (MHz)	Average (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
1094.875000	23.28	30.72	1000.0	1000.000	100.0	H	-74.0
1510.562500	23.17	30.84	1000.0	1000.000	100.0	H	180.0
3052.937500	27.49	26.51	1000.0	1000.000	100.0	H	131.0
4096.750000	28.75	25.25	1000.0	1000.000	100.0	H	154.0
6553.562500	34.75	19.25	1000.0	1000.000	100.0	H	-37.0

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Figure 4: Spectral Diagrams and measurement results, 1-7 GHz, vertical polarization



Final Peak measurement results:

Frequency (MHz)	MaxPeak (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
1158.625000	32.71	41.29	1000.0	1000.000	100.0	V	4.0
1788.812500	34.37	39.63	1000.0	1000.000	100.0	V	-150.0
3054.062500	37.99	36.01	1000.0	1000.000	100.0	V	-162.0
4677.437500	41.57	32.43	1000.0	1000.000	100.0	V	-43.0
6326.687500	44.01	29.99	1000.0	1000.000	100.0	V	-67.0

Final Average measurement results:

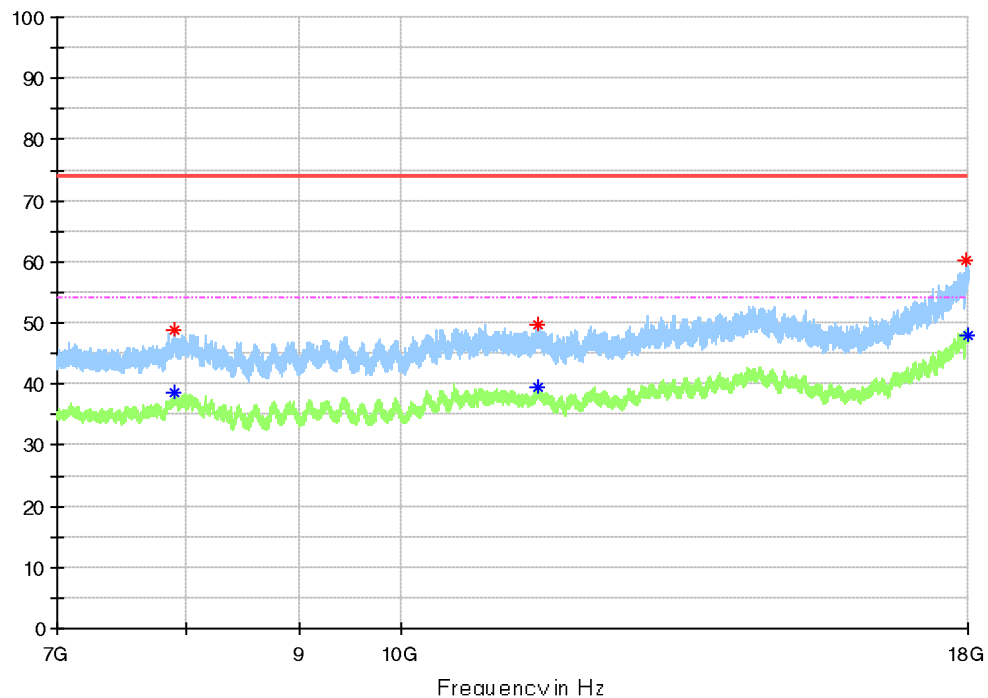
Frequency (MHz)	Average (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
1154.875000	23.37	30.63	1000.0	1000.000	100.0	V	77.0
1894.000000	25.12	28.88	1000.0	1000.000	100.0	V	-55.0
2882.312500	27.14	26.86	1000.0	1000.000	100.0	V	4.0
4358.312500	29.39	24.61	1000.0	1000.000	100.0	V	77.0
4985.500000	31.22	22.78	1000.0	1000.000	100.0	V	-180.0
6492.062500	34.84	19.16	1000.0	1000.000	100.0	V	-7.0

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Figure 5: Spectral Diagrams and measurement results, 7-18 GHz, horizontal polarization

Level [dB μ V/m]



Final Peak measurement results:

Frequency (MHz)	MaxPeak (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
7903.718750	48.82	25.18	1000.0	1000.000	100.0	H	-169.0
11519.625000	49.57	24.43	1000.0	1000.000	100.0	H	-107.0
17980.062500	60.25	13.75	1000.0	1000.000	100.0	H	-83.0

Final Average measurement results:

Frequency (MHz)	Average (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
7906.812500	38.58	15.42	1000.0	1000.000	100.0	H	17.0
11517.906250	39.48	14.52	1000.0	1000.000	100.0	H	-180.0
17998.625000	47.91	6.09	1000.0	1000.000	100.0	H	-180.0

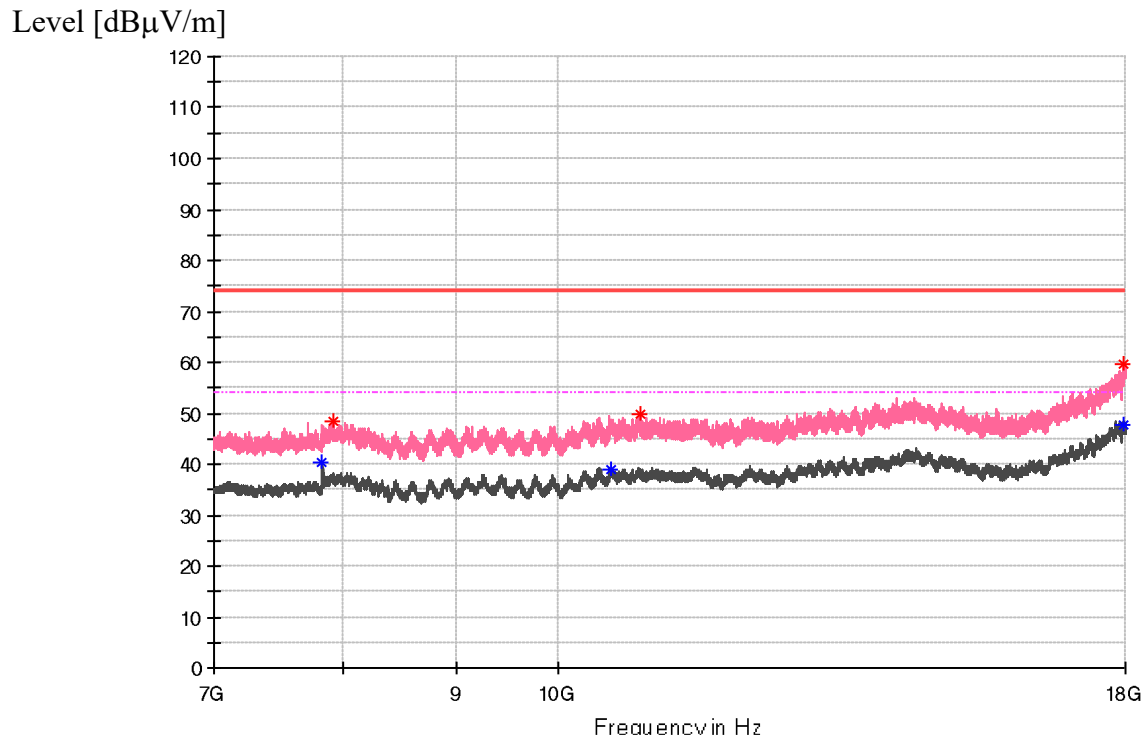
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Figure 6: Spectral Diagrams and measurement results, 7-18 GHz, vertical polarization



Final Peak measurement results:

Frequency (MHz)	MaxPeak (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
7916.437500	48.30	25.70	1000.0	1000.000	100.0	V	-165.0
10878.187500	49.96	24.04	1000.0	1000.000	100.0	V	96.0
17966.656250	59.61	14.39	1000.0	1000.000	100.0	V	-31.0

Final Average measurement results:

Frequency (MHz)	Average (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
7833.250000	40.30	13.70	1000.0	1000.000	100.0	V	-31.0
10565.718750	38.98	15.02	1000.0	1000.000	100.0	V	33.0
17952.562500	47.72	6.28	1000.0	1000.000	100.0	V	-165.0

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6 Photographs of the Test Set-Up

Refer to the test setup file.

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7 List of Test and Measurement Instruments

Equip. no.	Equipment name	Model	Serial no.	Manufacturer	Cal. date	Due date
EMC-S-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
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

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