



Prüfbericht-Nr.: <i>Test report no.:</i>	CN25QJOL 001	Auftrags-Nr.: <i>Order no.:</i>	48282336	Seite 1 von 21 Page 1 of 21
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2025-09-24	
Auftraggeber: <i>Client:</i>	Senao Networks, Inc. 3F., No.529, Zhongzheng Rd., Xindian Dist., New Taipei City, Taiwan			
Prüfgegenstand: <i>Test item:</i>	Cloud Managed Wi-Fi 7 2x2 Wall-Plate Access Point			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	WAP2301M, ECW515			
Auftrags-Inhalt: <i>Order content:</i>	Spot Checking Emissions (FCC)			
Prüfgrundlage: <i>Test specification:</i>	FCC 47CFR Part 15: Subpart C Section 15.247 FCC 47CFR Part 15: Subpart E Section 15.407			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2025-11-12			
Prüfmuster-Nr.: <i>Test sample no.:</i>	A004136584-001 A004136584-002			
Prüfzeitraum: <i>Testing period:</i>	2025-11-30 - 2025-12-04			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland Taiwan Ltd. New Taipei Branch			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland Taiwan Ltd. Taipei Testing Laboratories			
Prüfergebnis*: <i>Test result*:</i>	Pass			
überprüft von: <i>compiled by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i> 2025-12-15	 Allen Yu Section Manager		 Ryan Chen Senior Project Manager	
Stellung / Position:	Section Manager		Senior Project Manager	
Sonstiges / Other:				
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: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor 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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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>

TEST SUMMARY

Report Section	FCC Clause	Test Item	Result
5.1.1	15.247(d) & 15.407(b) & 15.205 & 15.209	Radiated Spurious Emissions and Band Edges	Pass
5.2.1	15.207	Mains Conducted Emission	Pass

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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APPENDIX A - TEST RESULT OF RADIATED EMISSIONS & MAINS CONDUCTED EMISSION

APPENDIX SP - PHOTOGRAPHS OF TEST SETUP

APPENDIX EP - PHOTOGRAPHS OF EUT

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HISTORY OF THIS TEST REPORT

Revision	Description	Date Issued
R01	Original Release	2025-12-15

1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A - Test Result of Radiated Emissions & Mains Conducted Emission

Appendix SP - Photographs of Test Setup

Appendix EP - Photographs of EUT

Applied Standard and Test Levels

Radio
FCC CFR47 Part 15: Subpart C Section 15.247
FCC CFR47 Part 15: Subpart E Section 15.407
FCC 47CFR Part 2: Subpart J Section 2.1049
ANSI C63.10:2020
KDB 558074 D01 15.247 Meas Guidance v05r02
KDB 996369 D04 Module Integration Guide v01

1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.

2. Test Sites

2.1 Test Laboratory

TÜV Rheinland Taiwan Ltd. Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.
Taipei City 105
Taiwan (R.O.C.)

2.2 Test Facility

TÜV Rheinland Taiwan Ltd. Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,
New Taipei City 244
Taiwan (R.O.C.)
FCC Registration No.: 180491
ISED Registration No.: 25563

2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95% level of confidence.

Emission Measurement Uncertainty

Parameter	Uncertainty
Radiated Emission (9 kHz ~ 30 MHz)	± 1.15 dB
Radiated Emission (30 MHz ~ 200 MHz)	± 1.32 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.31 dB
Radiated Emission (1 GHz ~ 18 GHz)	± 1.53 dB
Radiated Emission (18 GHz ~ 40 GHz)	± 2.50 dB
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a Cloud Managed Wi-Fi 7 2x2 Wall-Plate Access Point. It contains WLAN and Bluetooth compatible module enabling the user to communicate data through a Wireless interface.

For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details and Ratings

Basic Information of EUT

Item	EUT information
Kind of Equipment/Test Item	Cloud Managed Wi-Fi 7 2x2 Wall-Plate Access Point
Type Identification	WAP2301M, ECW515
FCC ID	U2M-WAP2301M

Technical Specification of EUT

Item	EUT information
Operating Frequency	Bluetooth: 2402 MHz ~ 2480 MHz WLAN 2.4G: 2412 MHz ~ 2462 MHz WLAN 5G: Band 1: 5180 MHz ~ 5240 MHz Band 4: 5745 MHz ~ 5825 MHz
Operation Voltage	54 Vdc
Modulation	Bluetooth: GFSK WiFi: DSSS (DBPSK, DQPSK, CCK) OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) OFDMA (1024QAM, 4096QAM)
Antenna Information	Refer to note as below

Note:

1. All models are listed as below.

Main Model	Series Model	Difference
WAP2301M	ECW515	All models are electrically identical, different model names are for marketing purpose.

2. The antenna list is as below.

Ant No.		Antenna Gain (dBi)			
		WLAN 2.4GHz	WLAN 5GHz		Bluetooth
			Band 1	Band 4	
1		4.06	3.12	3.96	-
2		3.33	3.62	4.36	-
Max. Peak Gain		4.06	3.62	4.36	4.52
CDD Mode	Power Directional Gain	4.06	3.62	4.36	-
	PSD Directional Gain	6.71	6.38	7.17	-
Beamforming Mode	Power Directional Gain	6.71	6.38	7.17	-
	PSD Directional Gain	6.71	6.38	7.17	-
Antenna Type		Dipole Antenna	Dipole Antenna		Dipole Antenna

Note: $\text{PSD Directional Gain} = 10\log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{\text{ANT}}]$

3.3 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.4 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The test modes were adapted accordingly in reference to the instructions for use.

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output expected by the customer and is going to be fixed on the firmware of the final end product.

4.2 Test Operation and Test Software

Setup for testing: Test samples are provided with a LAN interface which makes it possible to control them through a test software installed on a notebook computer.

This software was running on the laptop computer connected to the EUT. It was used to enable the operation modes listed as below.

The samples were used as follows:

A004136584-001

A004136584-002

Full test was applied on all test modes, but only worst case was shown.

EUT Configure Mode	Applicable To		Description
	Radiated Spurious Emissions	Mains Conducted Emission	
-	√	√	-

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when position on **Y-plane**.
2. "-" means no effect.

Radiated Spurious Emissions

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Description
-	WiFi 5G 802.11a_5745MHz + WiFi 2.4G 802.11g_2437 MHz + Bluetooth 1Mbps_2402 MHz

Mains Conducted Emission

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Description
-	WiFi 5G 802.11a_5745MHz + WiFi 2.4G 802.11g_2437 MHz + Bluetooth 1Mbps_2402 MHz

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Radiated Spurious Emissions	21.45-23.75 °C	52-59 %	Chuan Chu
Mains Conducted Emission	23.5 °C	66 %	Chuan Chu

4.3 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

Accessory of EUT

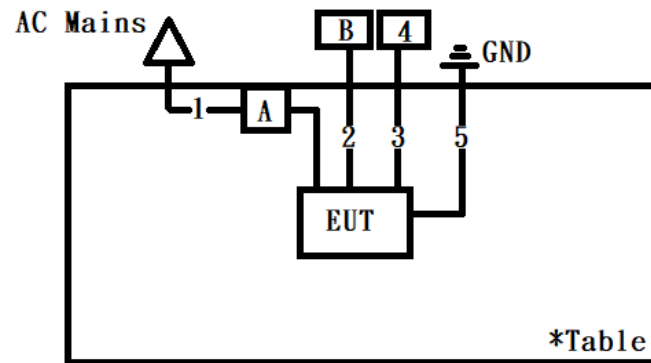
None

Support Unit

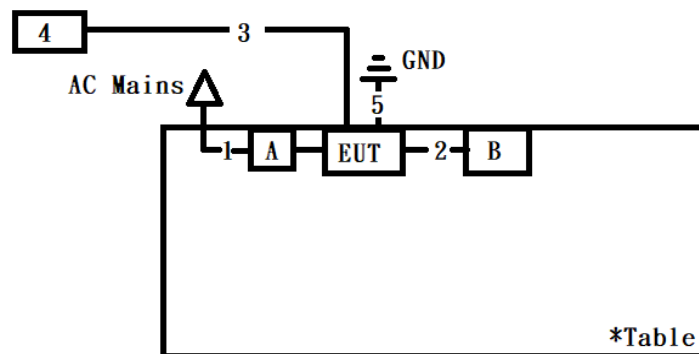
Support Unit								
No	Description	Brand	Model	S/N	Shielded	Ferrite Core (Qty)	Length (cm)	Remark
A	Adapter	Senao	PS8L-65W	N/A	NO	YES	150	Radiated
B	AP	FORTINET	N421EV	N/A	-	-	-	
1	Power Cord	TUV	TUV-001	N/A	NO	NO	150	
2	LAN Cable	TUV	TUV-002	N/A	NO	NO	1000	
3	LAN Cable	TUV	TUV-003	N/A	NO	NO	1000	
4	NB	Dell	Latitude 7490	BW7Y7Y2	-	-	-	
5	Ground Wire	TUV	TUV-004	N/A	NO	NO	300	Mains Conducted
A	Adapter	Senao	PS8L-65W	N/A	NO	YES	150	
B	AP	FORTINET	N421EV	N/A	-	-	-	
1	Power Cord	TUV	TUV-001	N/A	NO	NO	150	
2	LAN Cable	TUV	TUV-005	N/A	NO	NO	150	
3	LAN Cable	TUV	TUV-006	N/A	NO	NO	150	
4	NB	Dell	Latitude 7490	BW7Y7Y2	-	-	-	
5	Ground Wire	TUV	TUV-004	N/A	NO	NO	100	
-	Notebook	LENOVO	TP00094A	PF-1GT015	-	-	-	--

4.4 Test Setup Diagram

<Radiated Spurious Emissions mode>



<Mains Conducted Emission mode>



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Radiated Spurious Emissions

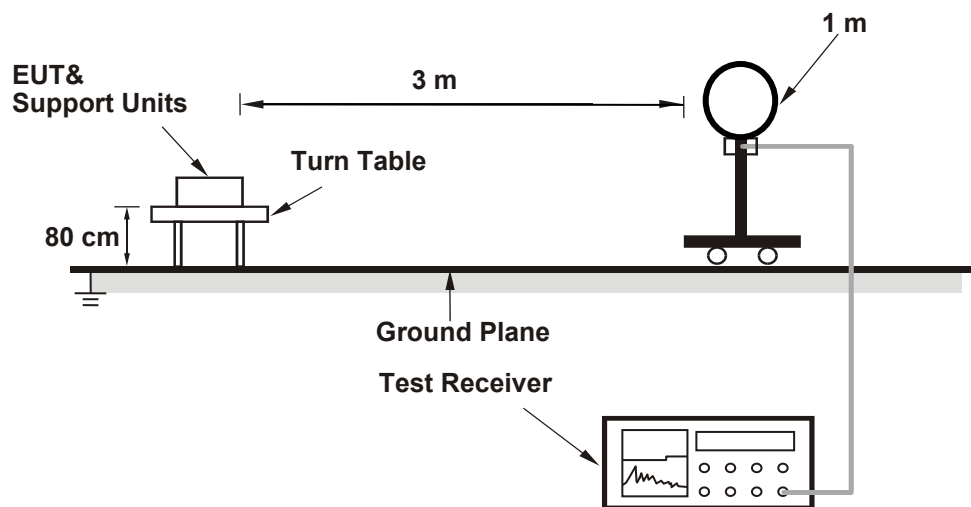
Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

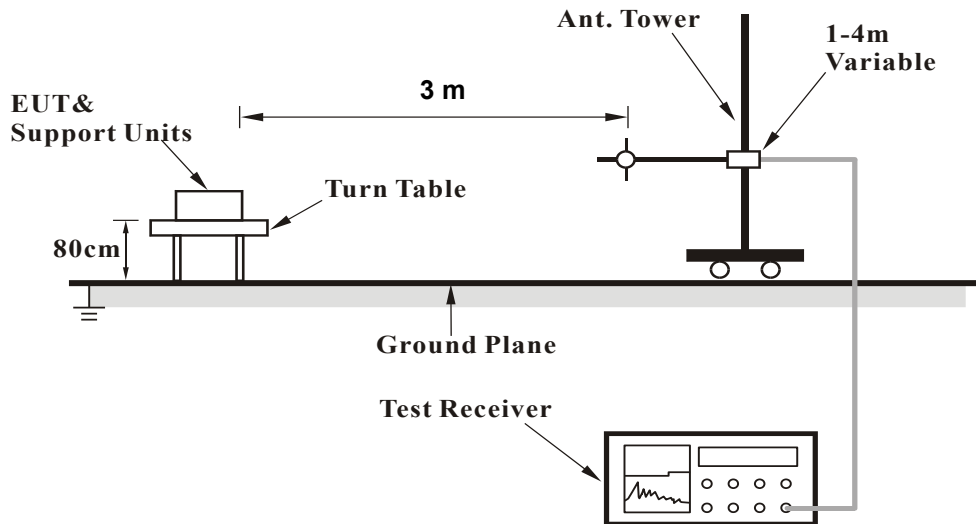
Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

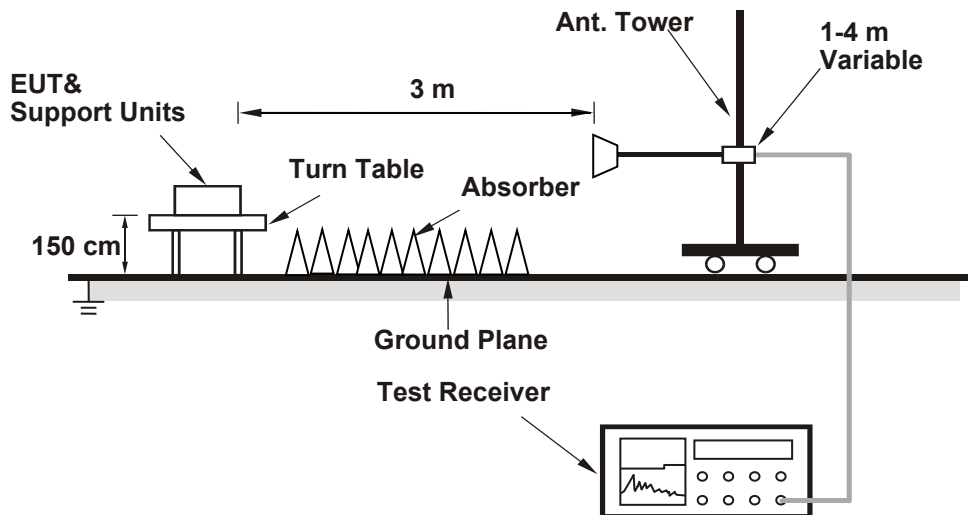
<Radiated Emissions below 30 MHz>



<Radiated Emissions 30 MHz to 1 GHz>



<Radiated Emissions above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Above 1 GHz					
Signal Analyzer	R&S	FSV40	101509	2025/04/29	2026/04/28
Horn Antenna	ETS-Lindgren	3117	00218931	2025/02/26	2026/02/25
Horn Antenna	SCHWARZBECK	BBHA 9170	00890	2025/04/30	2026/04/29
HF-AMP + AC source	EMCI	EMC051845SE	980633	2025/01/15	2026/01/14
HF-AMP + AC source	EMCI	EMC051845SE	980656	2025/01/15	2026/01/14
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	MY37203/4	2025/06/06	2026/06/05
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800897/2EA	2025/06/06	2026/06/05
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800902/2EA	2025/06/06	2026/06/05
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	801026/2EA	2025/07/05	2026/07/04
3G High Pass Filter	EMCI	ZHPF3180	08223315	2025/12/18	2026/12/17
7G High Pass Filter	EMCI	ZHPF3180	08223317	2025/05/27	2026/05/26
Test Software	Audix E3	15914a_20191106_tuv	PK-001087	N/A	N/A
30 MHz ~ 1 GHz					
Receiver	R&S	ESR7	102108	2025/07/03	2026/07/02
Bilog Antenna	SCHWARZBECK	VULB-9170	00890	2025/04/30	2026/04/29
LF-AMP	Agilent	8447D	2727A05146	2025/01/15	2026/01/14
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104EA	800057/4EA	2025/04/30	2026/04/29
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	802244/4	2025/04/30	2026/04/29
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	MY37203/4	2025/04/30	2026/04/29
Test Software	Audix E3	15914a_20191106_tuv	PK-001087	N/A	N/A
Below 30 MHz					
Receiver	R&S	ESR7	102108	2025/07/03	2026/07/02
Loop Antenna	SCHWARZBECK	FMZB 1519B	00215	2024/12/11	2025/12/10
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104EA	800057/4EA	2025/04/30	2026/04/29
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	802244/4	2025/04/30	2026/04/29
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	MY37203/4	2025/04/30	2026/04/29
Test Software	Audix E3	15914a_20191106_tuv	PK-001087	N/A	N/A

Test Procedures**For Radiated Emissions below 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.

For Radiated Emissions above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The worst-case Axis orientation is recorded in this test report.

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Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix A.

5.2 Mains Emission

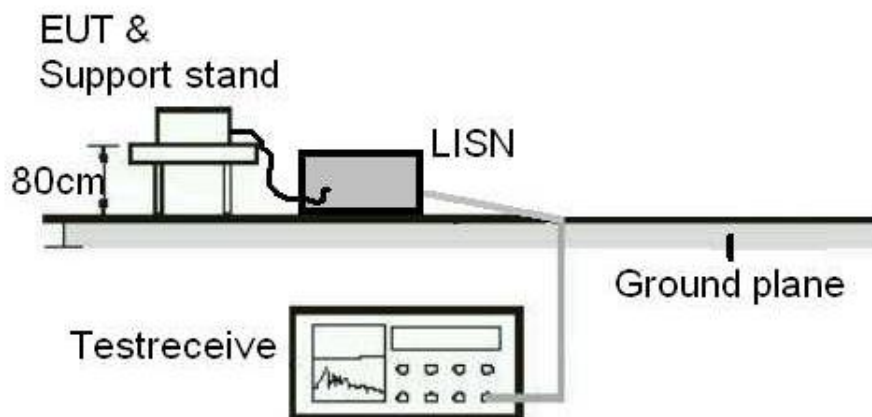
5.2.1 Mains Conducted Emission

Limit

Mains Conducted emissions as defined in §15.207 must comply with the mains conducted emission limits.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Two-Line V-Network	Rohde & Schwarz	ENV216	101243	2025/08/06	2026/08/05
EMI Test Receiver	R&S	ESCI	101094	2025/11/19	2026/11/18
Coaxial Cable	HUBER+SUHNER	RG400U	RG400U-001	2025/04/17	2026/04/17
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A

Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

Test Results

Please refer to Appendix A.