



Prüfbericht-Nr.: <i>Test report no.:</i>	CN26WMZA 001	Auftrags-Nr.: <i>Order no.:</i>	48278709	Seite 1 von 42 Page 1 of 42
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2025-06-24	
Auftraggeber: <i>Client:</i>	DIGI SINGAPORE PTE LTD 4 Leng Kee Rd, #06-01, SIS Building, Singapore, 159088			
Prüfgegenstand: <i>Test item:</i>	WiFi 6E 2x2 WirelessLAN USB Client			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	AP-3003E			
Auftrags-Inhalt: <i>Order content:</i>	FCC Part 15E Test report (WiFi 6GHz)			
Prüfgrundlage: <i>Test specification:</i>	FCC 47CFR Part 15: Subpart E Section 15.407			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2026-03-25			
Prüfmuster-Nr.: <i>Test sample no:</i>	A004233928-004 A004233928-003			
Prüfzeitraum: <i>Testing period:</i>	2026-03-30 - 2026-06-05			
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>	2026-06-11	Ausstellungsdatum: <i>Issue date:</i>		2026-06-11
Stellung / Position:	Project Engineer	Stellung / Position:		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 P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable
5 = mangelhaft N/T = nicht getestet				
5 = poor N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

Prüfbericht-Nr.:
Test report no.:

CN26WMZA 001

Seite 2 von 42
Page 2 of 42

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. 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>
<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> |

TEST SUMMARY

Report Section	FCC Clause	Test Item	Result
5.1.1	15.203	Antenna Requirement	Pass
5.1.2	15.407(a)	Maximum e.i.r.p.	Pass
5.1.3	15.407(a)	Emission Bandwidth	Pass
5.1.4	15.407(a)	Maximum Power Spectral Density (e.i.r.p.)	Pass
5.1.5	15.407(b)	Radiated Spurious Emissions	Pass
5.1.6	15.407(b)	In-Band Emissions (Channel Mask)	Pass
5.1.7	15.407(d)	Contention-Based Protocol	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.

Contents

HISTORY OF THIS TEST REPORT	6
1. GENERAL REMARKS	7
1.1 COMPLEMENTARY MATERIALS	7
1.2 DECISION RULE OF CONFORMITY	7
2. TEST SITES	8
2.1 TEST LABORATORY	8
2.2 TEST FACILITY	8
2.3 TRACEABILITY	9
2.4 CALIBRATION	9
2.5 MEASUREMENT UNCERTAINTY	9
3. GENERAL PRODUCT INFORMATION	10
3.1 PRODUCT FUNCTION AND INTENDED USE	10
3.2 SYSTEM DETAILS AND RATINGS	10
3.3 NOISE GENERATING AND NOISE SUPPRESSING PARTS	11
3.4 SUBMITTED DOCUMENTS	11
4. TEST SET-UP AND OPERATION MODES	12
4.1 PRINCIPLE OF CONFIGURATION SELECTION	12
4.2 CARRIER FREQUENCY AND CHANNEL	13
4.3 TEST OPERATION AND TEST SOFTWARE	16
4.4 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	19
4.5 TEST SETUP DIAGRAM	19
4.6 DUTY CYCLE OF TEST SIGNAL	20
5. TEST RESULTS	21
5.1 TRANSMITTER REQUIREMENT & TEST SUITES	21
5.1.1 Antenna Requirement	21
5.1.2 Maximum e.i.r.p.	22
5.1.3 Emission Bandwidth	26
5.1.4 Maximum Power Spectral Density (e.i.r.p.)	27
5.1.5 Radiated Spurious Emissions	29
5.1.6 In-Band Emissions (Channel Mask)	34
5.1.7 Contention-Based Protocol	36
5.2 MAINS EMISSION	41
5.2.1 Mains Conducted Emission	41

Prüfbericht - Nr.: **CN26WMZA 001**
Test Report No.

Seite 5 von 42
Page 5 of 42

APPENDIX A - TEST RESULT OF CONDUCTED

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

APPENDIX C - CONTENTION-BASED PROTOCOL

APPENDIX SP - PHOTOGRAPHS OF TEST SETUP

APPENDIX EP - PHOTOGRAPHS OF EUT

Prüfbericht - Nr.: **CN26WMZA 001**
Test Report No.

Seite 6 von 42
Page 6 of 42

HISTORY OF THIS TEST REPORT

Revision	Description	Date Issued
R01	Original Release	2026-06-11

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 Conducted

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

Appendix C - Contention-Based Protocol

Appendix SP - Photographs of Test Setup

Appendix EP - Photographs of EUT

Applied Standard and Test Levels

Radio
FCC 47CFR Part 15: Subpart E Section 15.407
ANSI C63.10-2020
KDB 789033 D02 General UNII Test Procedures New Rules v02r01
KDB 987594 D02 U-NII 6 GHz EMC Measurement v01r01
KDB 662911 D01 Multiple Transmitter Output v02r01

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)	± 1.30 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.30 dB
Radiated Emission (1 GHz ~ 18 GHz)	± 1.54 dB
Radiated Emission (18 GHz ~ 40 GHz)	± 2.52 dB
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a WiFi 6E 2x2 WirelessLAN USB Client. It contains a WLAN 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	WiFi 6E 2x2 WirelessLAN USB Client
Type Identification	AP-3003E
FCC ID	SUFAP3003E

Technical Specification of EUT

Item	EUT information
Operating Frequency	Band 5: 5955 MHz ~ 6415 MHz Band 6: 6435 MHz ~ 6525 MHz Band 7: 6525 MHz ~ 6875 MHz Band 8: 6875 MHz ~ 7115 MHz
Channel Number	Band 5~8: 59 for 802.11ax HE20 29 for 802.11ax HE40 14 for 802.11ax HE80 7 for 802.11ax HE160
Data Rate	802.11a: 54.0 / 48.0 / 36.0 / 24.0 / 18.0 / 12.0 / 9.0 / 6.0 Mbps 802.11ax: up to MCS11
Operation Voltage	5 Vdc
Modulation	OFDM/OFDMA : (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Maximum EIRP Output Power (dBm)	5955 ~ 6415 MHz: 17.46 6435 ~ 6525 MHz: 16.10 6525 ~ 6875 MHz: 18.98 6875 ~ 7115 MHz: 18.98
Antenna Information	Refer to 5.1.1
Accessory Device	Refer to 4.4

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.

Table for Parameters of Test Software Setting

802.11ax HE20		802.11ax HE40		802.11ax HE80		802.11ax HE160	
Channel	Power Setting	Channel	Power Setting	Channel	Power Setting	Channel	Power Setting
1	2.25	3	5.5	7	8	15	11
45	3.25	43	6	39	8	47	11
93	3.75	91	6	87	8	79	11
97	3.75	99	6	103	8	111*	10.5
105	4	107	6	119*	7.5	111*	10.5
113	4	115*	5.5	119*	7.5	143	10.5
117	3	115*	5.5	135	7.5	175*	11.5
149	3	123	5.5	151	7.5	175*	11.5
181	4	155	6	167	8	207	11.5
185*	4	179	6	183*	8		
185*	4	187*	6	183*	8		
189	4	187*	6	199	8		
209	3.5	195	6	215	8		
233	4	211	6				
		227	6				

*Note : Straddle Channel

4.2 Carrier Frequency and Channel

Band	Channel	Frequency (MHz)	802.11ax HE20	802.11ax HE40	802.11ax HE80	802.11ax HE160
U-NII-5 (Band 5)	1	5955	V			
	3	5965		V		
	5	5975	V			
	7	5985			V	
	9	5995	V			
	11	6005		V		
	13	6015	V			
	15	6025				V
	17	6035	V			
	19	6045		V		
	21	6055	V			
	23	6065			V	
	25	6075	V			
	27	6085		V		
	29	6095	V			
	33	6115	V			
	35	6125		V		
	37	6135	V			
	39	6145			V	
	41	6155	V			
	43	6165		V		
	45	6175	V			
	47	6185				V
	49	6195	V			
	51	6205		V		
	53	6215	V			
	55	6225			V	
	57	6235	V			
	59	6245		V		
	61	6255	V			
	65	6275	V			
	67	6285		V		
	69	6295	V			
	71	6305			V	
	73	6315	V			
	75	6325		V		
	77	6335	V			
	79	6345				V
	81	6355	V			
	83	6365		V		
	85	6375	V			
	87	6385			V	
	89	6395	V			
	91	6405		V		
	93	6415	V			

Band	Channel	Frequency (MHz)	802.11ax HE20	802.11ax HE40	802.11ax HE80	802.11ax HE160
U-NII-6 (Band 6)	97	6435	V			
	99	6445		V		
	101	6455	V			
	103	6465			V	
	105	6475	V			
	107	6485		V		
	109	6495	V			
Straddle Channel	111	6505	V			V
	115	6525		V		
	119	6545			V	
U-NII-7 (Band 7)	117	6535	V			
	121	6555	V			
	123	6565		V		
	125	6575	V			
	129	6595	V			
	131	6605		V		
	133	6615	V			
	135	6625			V	
	137	6635	V			
	139	6645		V		
	141	6655	V			
	143	6665				V
	145	6675	V			
	147	6685		V		
	149	6695	V			
	151	6705			V	
	153	6715	V			
	155	6725		V		
	157	6735	V			
	161	6755	V			
	163	6765		V		
	165	6775	V			
	167	6785			V	
	169	6795	V			
	171	6805		V		
	173	6815	V			
	177	6835	V			
	179	6845		V		
	181	6855	V			
Straddle Channel	175	6825				V
	183	6865			V	
	185	6875	V			
	187	6885		V		

Band	Channel	Frequency (MHz)	802.11ax HE20	802.11ax HE40	802.11ax HE80	802.11ax HE160
U-NII-8 (Band 8)	189	6895	V			
	193	6915	V			
	195	6925		V		
	197	6935	V			
	199	6945			V	
	201	6955	V			
	203	6965		V		
	205	6975	V			
	207	6985				V
	209	6995	V			
	211	7005		V		
	213	7015	V			
	215	7025			V	
	217	7035	V			
	219	7045		V		
	221	7055	V			
	225	7075	V			
	227	7085		V		
	229	7095	V			
	233	7115	V			

4.3 Test Operation and Test Software

Setup for testing: Test samples are provided with USB 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.

Test Software	AX MP Tool v2.0.30
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The samples were used as follows:

A004233928-004

A004233928-003

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

Modulation Mode	Tx Function
802.11ax HE20	2TX
802.11ax HE40	2TX
802.11ax HE80	2TX
802.11ax HE160	2TX

EUT Configure Mode	Applicable To				Description
	Antenna Port Conducted Measurement	Radiated Spurious Emissions above 1 GHz	Radiated Spurious Emissions below 1 GHz	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 **Z-plane**.
2. "-" means no effect.

Antenna Port Conducted Measurement

☒ 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	Mode	Frequency (MHz)	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11ax HE20	5955-6415	1 to 93	1, 45, 93	NSS1 MCS0
-		6435-6525	97 to 113	97, 105, 113	
-		6525-6875	117 to 185	117, 149, 181, 185	
-		6875-7115	189 to 233	189, 209, 233	
-	802.11ax HE40	5955-6415	3 to 91	3, 43, 91	NSS1 MCS0
-		6435-6525	99 to 115	99, 107, 115	
-		6525-6875	123 to 187	123, 155, 179, 187	
-		6875-7115	195 to 227	195, 211, 227	
-	802.11ax HE80	5955-6415	7 to 87	7, 39, 87	NSS1 MCS0
-		6435-6525	103 to 119	103, 119	
-		6525-6875	135 to 183	135, 151, 167, 183	
-		6875-7115	199 to 215	199, 215	
-	802.11ax HE160	5955-6415	15 to 79	15, 47, 79	NSS1 MCS0
-		6435-6525	111	111	
-		6525-6875	143 to 175	143, 175	
-		6875-7115	207	207	

Radiated Spurious Emissions (Above 1 GHz)

- ☒ 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	Mode	Frequency (MHz)	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11a	5955-6415	1 to 93	1, 45, 93	6.0
-		6435-6525	97 to 113	97, 105, 113	
-		6525-6875	117 to 185	117, 149, 181, 185	
-		6875-7115	189 to 233	189, 209, 233	
-	802.11ax HE20	5955-6415	1 to 93	1, 45, 93	NSS1 MCS0
-		6435-6525	97 to 113	97, 105, 113	
-		6525-6875	117 to 185	117, 149, 181, 185	
-		6875-7115	189 to 233	189, 209, 233	
-	802.11ax HE40	5955-6415	3 to 91	3, 43, 91	NSS1 MCS0
-		6435-6525	99 to 115	99, 107, 115	
-		6525-6875	123 to 187	123, 155, 179, 187	
-		6875-7115	195 to 227	195, 211, 227	
-	802.11ax HE80	5955-6415	7 to 87	7, 39, 87	NSS1 MCS0
-		6435-6525	103 to 119	103, 119	
-		6525-6875	135 to 183	135, 151, 167, 183	
-		6875-7115	199 to 215	199, 215	
-	802.11ax HE160	5955-6415	15 to 79	15, 47, 79	NSS1 MCS0
-		6435-6525	111	111	
-		6525-6875	143 to 175	143, 175	
-		6875-7115	207	207	

Radiated Spurious Emissions (Below 1 GHz)

- ☒ 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	Mode	Frequency (MHz)	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11ax HE20	6525-6875	143 to 175	175	NSS1 MCS0

Mains Conducted Emission Test

- ☒ 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	Mode	Frequency (MHz)	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11ax HE20	6525-6875	143 to 175	175	NSS1 MCS0

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Conducted Measurement	18.4-18.7 °C	53-66 %	Nick Hsu
Radiated Spurious Emissions above 1 GHz	23.4-24.2 °C	54-58 %	Roger Liao
Radiated Spurious Emissions below 1 GHz	23.4-24.2 °C	54-58 %	Roger Liao
Mains Conducted Emission	23.1 °C	62 %	Roger Liao

4.4 Special Accessories and Auxiliary Equipment

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

Accessory of EUT

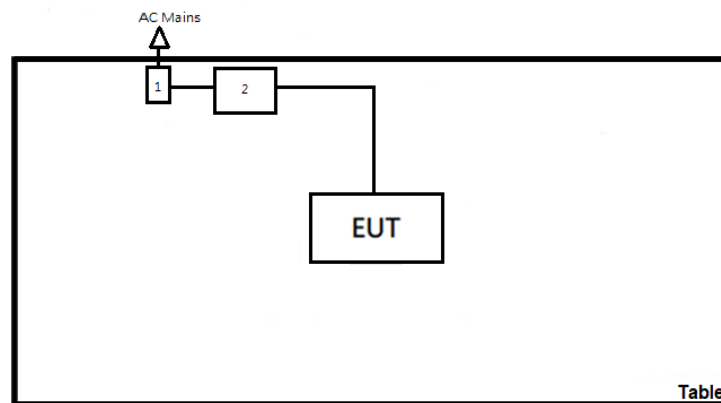
None

Support Unit

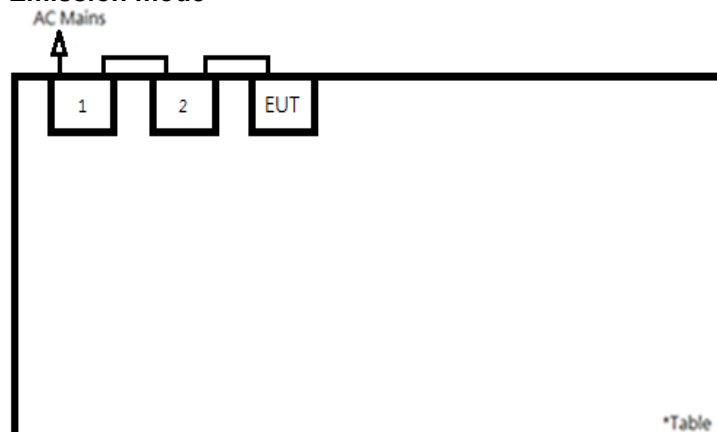
Support Unit					
No.	Description	Brand	Model	S/N	Remark
1	AC Adapter	HP	TPN-LA16	N/A	--
2	Notebook	HP	15s-du0007TX	CND93662WV	--
-	Notebook	HP	TPN-Q222	5CD2206L9Y	--

4.5 Test Setup Diagram

<Radiated Spurious Emissions mode>

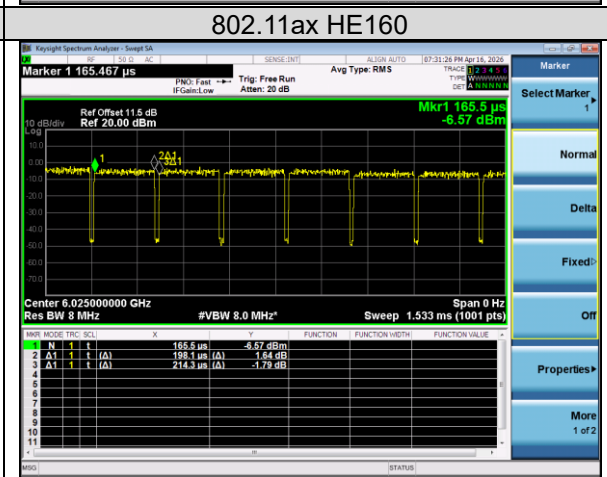
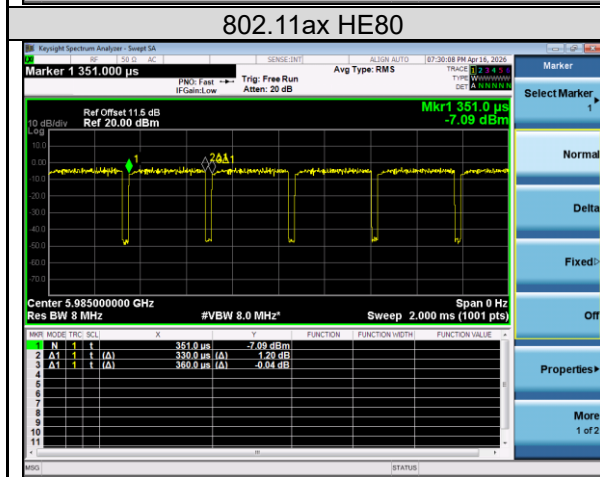
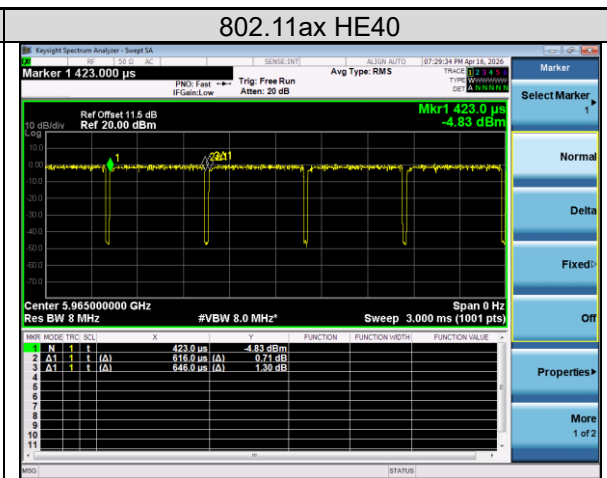
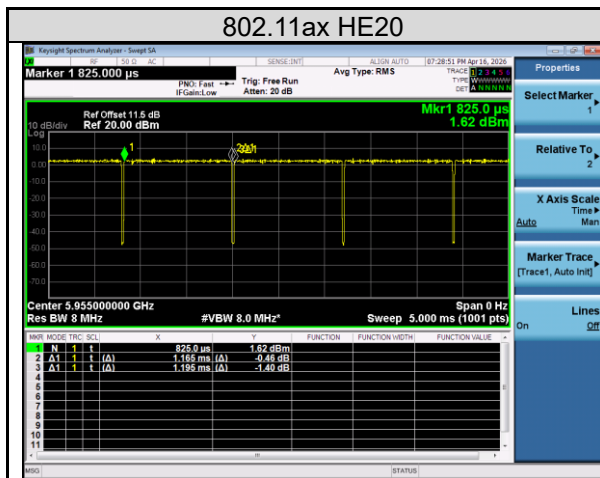


<Mains Conducted Emission mode>



4.6 Duty Cycle of Test Signal

Mode	On + Off Time (ms)	On Time (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11ax HE20	1.20	1.17	97.49	0.11
802.11ax HE40	0.65	0.62	95.36	0.21
802.11ax HE80	0.36	0.33	91.67	0.38
802.11ax HE160	0.21	0.20	92.52	0.34



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

Requirement Use of approved antennas only

The gain value is derived from Antenna datasheet, the EUT's antenna specifications are described as below. The antenna is used with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.

ANT	Gain (dBi)				Antenna Type
	Band 5	Band 6	Band 7	Band 8	
1	3.70	3.60	4.70	4.70	Chip Antenna
2	0.60	0.60	0.60	0.60	Chip Antenna
Max Peak Gain	3.70	3.60	4.70	4.70	-
Power Directional Gain	3.70	3.60	4.70	4.70	-
PSD Directional Gain	5.30	5.24	5.90	5.90	-

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

Minimum antenna gain for Contention-Based Protocol

Gain (dBi)
-2.7

Refer to EUT photo for details.

5.1.2 Maximum e.i.r.p.

Limit

Frequency Band	EUT Category	Limit
5.925 ~ 7.125 GHz	Indoor Access Point	The maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.
5.925 ~ 6.425 GHz 6.525 ~ 6.875 GHz	Standard Power AP & Fixed Client Device	The maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
5.925 ~ 7.125 GHz	Subordinate Device	Operating under the control of an indoor access point: The maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.
5.925 ~ 6.425 GHz 6.525 ~ 6.875 GHz	Standard Power Client Devices	Except for fixed client devices, operating under the control of a standard power access point: The maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.
5.925 ~ 7.125 GHz	Indoor Client Devices	Operating under the control of an indoor access point: The maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

Kind of Test Site Shielded room

Test Setup

Test Instruments

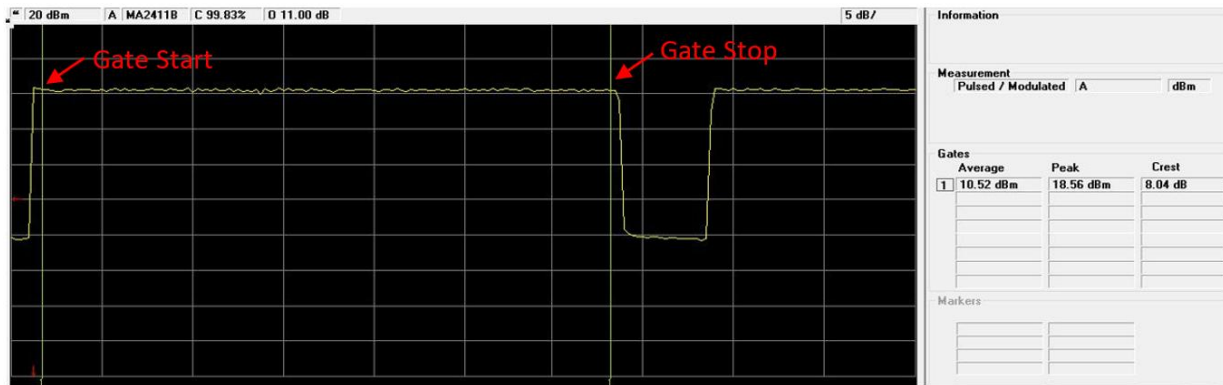
Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Power Meter	Anritsu	ML2495A	1901008	2026/02/24	2027/02/23	2026/03/30	2026/04/16
Power Sensor	Anritsu	MA2411B	1725269	2026/02/24	2027/02/23	2026/03/30	2026/04/16

Test Procedures

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to AVERAGE. Duty factor is not added to measured value.

Gate Setup:

1. Select the [Gates] tab in the software.
2. Check the box (e.g., Gate 1) to display it on the trace.
3. Set Gate Position
 - Drag the gate line with the mouse to the desired point on the waveform, or
 - Enter Values using the [Set] button and input start/stop times.
4. Switch to the next measurement channel and repeat the same gate setup procedure.
5. The instrument calculates average/peak power only within the defined gate interval.



Test Result

For U-NII-5 to U-NII-8

<802.11ax HE20>

Channel	Channel Frequency (MHz)	Average Output Power (dBm)		Total Power		EIRP Power (dBm)	EIRP Limit (dBm)
		Chain 0	Chain 1	(dBm)	(mW)		
1	5955	3.50	2.75	6.15	4.12	9.85	24.00
45	6175	2.22	1.83	5.04	3.19	8.74	24.00
93	6415	3.00	3.41	6.22	4.19	9.92	24.00
97	6435	2.46	3.25	5.88	3.87	9.48	24.00
105	6475	2.54	3.37	5.98	3.96	9.58	24.00
113	6515	2.61	3.10	5.87	3.86	9.47	24.00
117	6535	1.47	2.25	4.88	3.08	9.58	24.00
149	6695	1.59	2.36	5.01	3.17	9.71	24.00
181	6855	1.52	2.76	5.19	3.31	9.89	24.00
*185	6875	1.76	3.18	5.54	3.58	10.24	24.00
*185	6875	1.76	3.18	5.54	3.58	10.24	24.00
189	6895	1.85	3.20	5.59	3.62	10.29	24.00
209	6995	2.41	2.80	5.62	3.65	10.32	24.00
233	7115	1.59	2.43	5.04	3.19	9.74	24.00

*Note : Straddle Channel

<802.11ax HE40>

Channel	Channel Frequency (MHz)	Average Output Power (dBm)		Total Power		EIRP Power (dBm)	EIRP Limit (dBm)
		Chain 0	Chain 1	(dBm)	(mW)		
3	5965	6.04	5.95	9.01	7.96	12.71	24.00
43	6165	4.86	4.88	7.88	6.13	11.58	24.00
91	6405	5.38	5.83	8.62	7.28	12.32	24.00
99	6445	4.89	5.34	8.13	6.51	11.73	24.00
107	6485	4.57	5.30	7.96	6.25	11.56	24.00
*115	6525	4.03	4.67	7.37	5.46	10.97	24.00
*115	6525	4.03	4.67	7.37	5.46	12.07	24.00
123	6565	4.86	5.25	8.07	6.41	12.77	24.00
155	6725	4.37	4.96	7.68	5.87	12.38	24.00
179	6845	4.12	4.81	7.49	5.61	12.19	24.00
*187	6885	3.98	5.36	7.73	5.93	12.43	24.00
*187	6885	3.98	5.36	7.73	5.93	12.43	24.00
195	6925	4.70	5.79	8.29	6.74	12.99	24.00
211	7005	4.92	5.25	8.10	6.45	12.80	24.00
227	7085	4.93	5.08	8.01	6.33	12.71	24.00

*Note : Straddle Channel

<802.11ax HE80>

Channel	Channel Frequency (MHz)	Average Output Power (dBm)		Total Power		EIRP Power (dBm)	EIRP Limit (dBm)
		Chain 0	Chain 1	(dBm)	(mW)		
7	5985	8.12	8.15	11.15	13.02	14.85	24.00
39	6145	7.31	7.37	10.35	10.84	14.05	24.00
87	6385	7.62	7.73	10.69	11.71	14.39	24.00
103	6465	6.78	7.52	10.17	10.40	13.77	24.00
*119	6545	6.83	7.05	9.95	9.89	13.55	24.00
*119	6545	6.83	7.05	9.95	9.89	14.65	24.00
135	6625	6.81	7.04	9.94	9.86	14.64	24.00
151	6705	6.75	7.06	9.92	9.82	14.62	24.00
167	6785	6.61	7.06	9.85	9.66	14.55	24.00
*183	6865	6.41	6.85	9.64	9.21	14.34	24.00
*183	6865	6.41	6.85	9.64	9.21	14.34	24.00
199	6945	6.92	7.67	10.32	10.76	15.02	24.00
215	7025	7.08	7.43	10.27	10.64	14.97	24.00

*Note : Straddle Channel

<802.11ax HE160>

Channel	Channel Frequency (MHz)	Average Output Power (dBm)		Total Power		EIRP Power (dBm)	EIRP Limit (dBm)
		Chain 0	Chain 1	(dBm)	(mW)		
15	6025	10.55	10.94	13.76	23.76	17.46	24.00
47	6185	9.48	9.23	12.36	17.24	16.06	24.00
79	6345	10.49	10.06	13.29	21.34	16.99	24.00
*111	6505	9.23	9.73	12.50	17.77	16.10	24.00
*111	6505	9.23	9.73	12.50	17.77	17.20	24.00
143	6665	9.95	10.05	13.01	20.01	17.71	24.00
*175	6825	12.06	10.30	14.28	26.76	18.98	24.00
*175	6825	12.06	10.30	14.28	26.76	18.98	24.00
207	6985	10.67	11.15	13.93	24.70	18.63	24.00

*Note : Straddle Channel

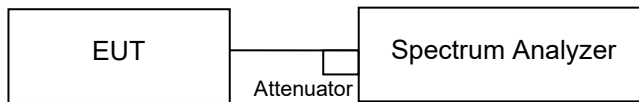
5.1.3 Emission Bandwidth

Limit

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	Agilent	N9010A	MY52221334	2026/02/24	2027/02/23	2026/03/30	2026/04/16

Test Procedure

- a. Set RBW = approximately 1% of the emission bandwidth.
- b. Set the VBW > RBW.
- c. Detector = Sample or PEAK.
- d. Trace mode = max hold.
- e. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
- f. For 99% Bandwidth Measurement, the transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sample. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

Test Results

Please refer to Appendix A.

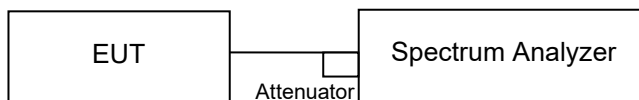
5.1.4 Maximum Power Spectral Density (e.i.r.p.)

Limit

Frequency Band	EUT Category	Limit
5.925 ~ 7.125 GHz	Indoor Access Point	The maximum power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band.
5.925 ~ 6.425 GHz 6.525 ~ 6.875 GHz	Standard Power AP & Fixed Client Device	The maximum power spectral density must not exceed 23 dBm e.i.r.p. in any 1-megahertz band.
5.925 ~ 7.125 GHz	Subordinate Device	The maximum power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band.
5.925 ~ 6.425 GHz 6.525 ~ 6.875 GHz	Standard Power Client Devices	Except for fixed client devices, operating under the control of a standard power access point: The maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band.
5.925 ~ 7.125 GHz	Indoor Client Devices	Operating under the control of an indoor access point: The maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	Agilent	N9010A	MY52221334	2026/02/24	2027/02/23	2026/03/30	2026/04/16

Prüfbericht - Nr.: CN26WMZA 001
Test Report No.

Seite 28 von 42
Page 28 of 42

Test Procedure

For U-NII-5 to U-NII-8 band:

Using method SA-2

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
3. Sweep time = auto, trigger set to "free run".
4. Trace average at least 100 traces in power averaging mode.
5. Record the max value and add 10 log (1/duty cycle)

For MIMO mode, calculation method follows FCC KDB 662911 Method 2) a) of power density measurement using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

Test Results

Please refer to Appendix A.

5.1.5 Radiated Spurious Emissions

Limit

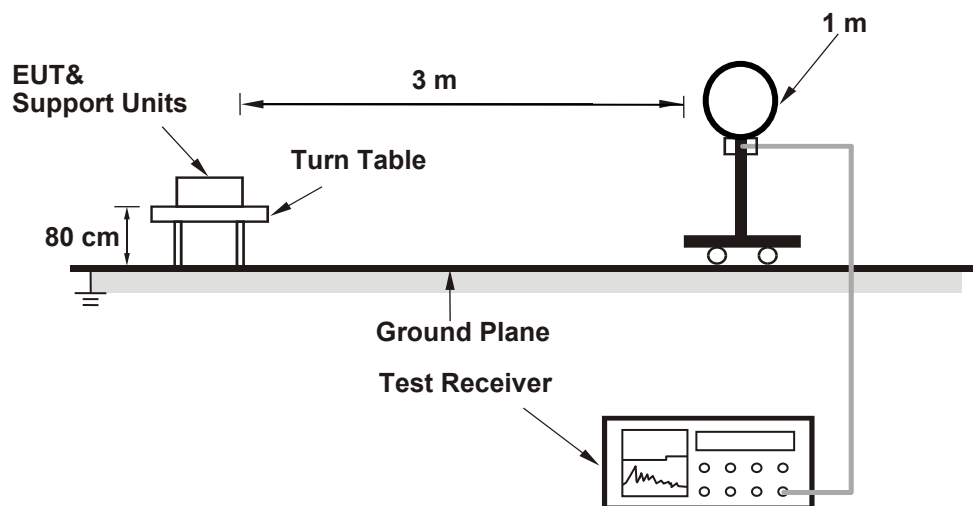
For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must comply with the radiated emission limits specified in §15.209(a).

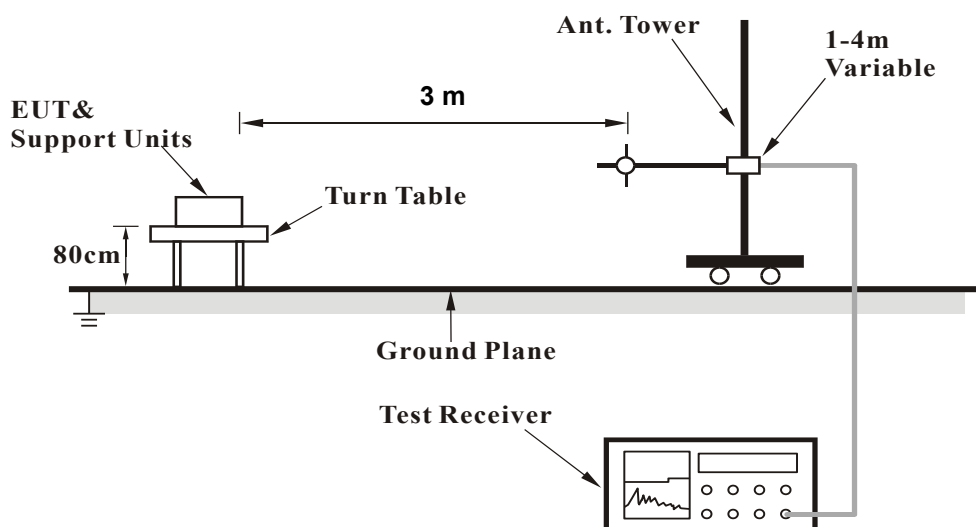
Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

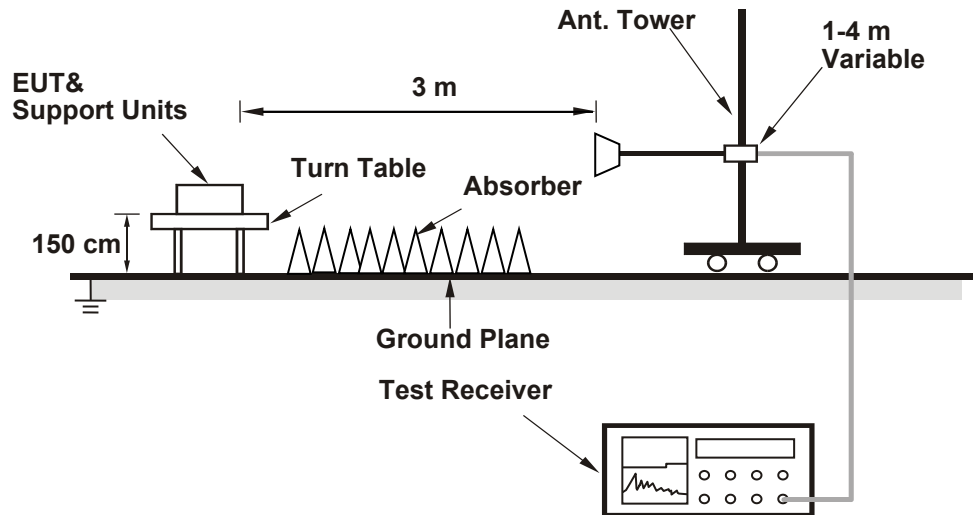
<Radiated Emissions below 30 MHz>



<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).

Prüfbericht - Nr.: CN26WMZA 001
Test Report No.

Seite 31 von 42
Page 31 of 42

Test Instruments

Test Period: 2026-04-15 ~ 2026-04-29

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Above 1 GHz					
Signal Analyzer	R&S	FSV40	101509	2025/5/7	2026/5/6
Horn Antenna	ETS-Lindgren	3117	00218929	2025/11/20	2026/11/19
Horn Antenna	SCHWARZBECK	BBHA 9170	00887	2026/3/26	2027/3/25
HF-AMP + AC source	EMCI	EMC051845SE	980633	2026/1/15	2027/1/14
HF-AMP + AC source	EMCI	EMC051845SE	980656	2026/1/15	2027/1/14
Microwave Cable	EMCI	EM102A-KMKM-700	504231101002	2025/5/23	2026/5/22
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800902/2EA	2025/6/6	2026/6/5
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	801026/2EA	2025/6/6	2026/6/5
3G High Pass Filter	EMCI	ZHPF3180	08223315	2025/12/18	2026/12/17
7G High Pass Filter	EMCI	ZHPF3180	08223317	2025/5/27	2026/5/26
Test Software	Audix E3	15914a_20191106_tuv	PK-001087	N/A	N/A
30 MHz ~ 1 GHz					
Receiver	R&S	ESR7	102109	2026/02/04	2027/02/03
Bilog Antenna	SCHWARZBECK	VULB-9168	00950	2025/05/15	2026/05/14
LF-AMP	Agilent	8447D	2727A05146	2026/01/15	2027/01/14
Microwave Cable	EMCI	RG 214 U/2*11N/7M	24038601	2026/02/25	2027/02/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	802244/4	2026/02/25	2027/02/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	MY37203/4	2026/02/25	2027/02/24
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 (OPEN), perpendicular (CLOSE), and ground-parallel (GROUND) 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:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

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.
6. The emission levels of other frequencies (including the 10th harmonic of the highest fundamental frequency) are very lower than the limit and are not shown in the test report.

Prüfbericht - Nr.: **CN26WMZA 001**
Test Report No.

Seite 33 von 42
Page 33 of 42

Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)

Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix B.

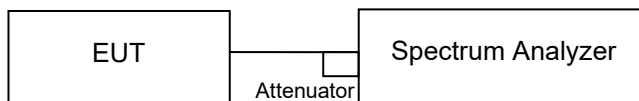
5.1.6 In-Band Emissions (Channel Mask)

Limit

For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	Agilent	N9010A	MY52221334	2026/02/24	2027/02/23	2026/03/30	2026/04/16

Test Procedures

1. Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.
2. Set the reference level of the measuring equipment in accordance with procedure 4.1.5.2 of ANSI C63.10.
3. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10. (This will be used to determine the channel edge.)
4. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
5. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.
6. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - a. Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
 - b. Suppressed by 28 dB at one channel bandwidth from the channel center.
 - c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
7. Adjust the span to encompass the entire mask as necessary.
8. Clear trace.
9. Trace average at least 100 traces in power averaging (rms) mode.
10. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

Test Results

Please refer to Appendix A.

5.1.7 Contention-Based Protocol

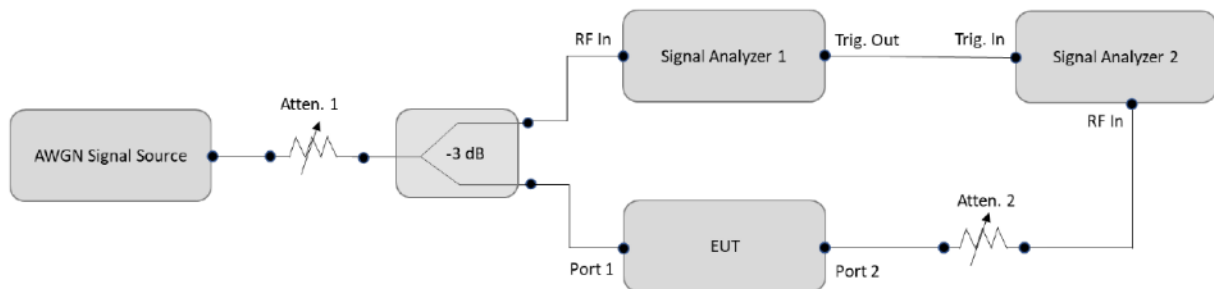
Limit

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel (in which incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold. The -62 dBm threshold is referenced to a 0 dBi antenna gain.

Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	Keysight	N9000B	MY62361339	2026/02/03	2027/02/02	2026/06/03	2026/06/05
EXG Vector Signal Generator	Keysight	N5172B	MY61253270	2025/12/24	2026/12/23	2026/06/03	2026/06/05
Frequency Extender	Keysight	N5182BX07	MY61500182	2025/12/24	2026/12/23	2026/06/03	2026/06/05

Test Procedures

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT.
Connect the output port of the EUT to the signal analyzer 2, as shown in Test Setup. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step 2.

5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.

Table 1. Criteria to determine number of times detection threshold test may be performed

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Tune incumbent and EUT transmissions ($f_{c1} = f_{c2}$)
$BW_{Inc} < BW_{EUT} \leq 2BW_{Inc}$	Once	Incumbent transmission is contained within BW_{EUT}
$2BW_{Inc} < BW_{EUT} \leq 4BW_{Inc}$	Twice. Incumbent transmission is contained within BW_{EUT}	Incumbent transmission is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel
$BW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel, and as closely as possible to the upper edge of the EUT channel

where:

BW_{EUT} : Transmission bandwidth of EUT signal

BW_{Inc} : Transmission bandwidth of the simulated incumbent signal (10 MHz wide AWGN signal)

f_{c1} : Center frequency of EUT transmission

f_{c2} : Center frequency of simulated incumbent signal

6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Test Setup.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

Test Results

<802.11ax HE20>

Contention Based protocol Measurement_802.11ax 20MHz									
UNII Band	Test Channel	Freq. (MHz)	Interference Frequency (MHz)	Threshold level of AWGN interference (dBm)	Number of Times	Number of Detected	Detection Rate (%)	Limit (%)	Test Result
5	45	6175	6175	-76	10	10	100	90	Pass
6	105	6475	6475	-76	10	10	100	90	Pass
7	149	6695	6695	-75	10	10	100	90	Pass
8	209	6995	6995	-76	10	10	100	90	Pass

UNII Band	Test Channel	Freq. (MHz)	Interference Frequency (MHz)	Injected AWGN Power (dBm)	Antenna Gain (dBi)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
5	45	6175	6175	-76	-2.7	-73.3	-62	Ceased
				-79		-76.3	-62	Minimal
				-80		-77.3	-62	Normal
6	105	6475	6475	-76	-2.7	-73.3	-62	Ceased
				-79		-76.3	-62	Minimal
				-80		-77.3	-62	Normal
7	149	6695	6695	-75	-2.7	-72.3	-62	Ceased
				-79		-76.3	-62	Minimal
				-80		-77.3	-62	Normal
8	209	6995	6995	-76	-2.7	-73.3	-62	Ceased
				-79		-76.3	-62	Minimal
				-80		-77.3	-62	Normal

Note:

- Adjusted Power = Injected AWGN Power (dBm) – Minimum Antenna Gain (dBi)
- Include calibrated path loss in Injected AWGN power

<802.11ax HE160>

Contention Based protocol Measurement									
UNII Band	Test Channel	Freq. (MHz)	Interference Frequency (MHz)	Injected AWGN Power (dBm)	Number of Times	Number of Detected	Detection Rate (%)	Limit (%)	Test Result
5	47	6185	6110	-71	10	9	90	90	Pass
			6185	-71	10	9	90	90	Pass
			6260	-71	10	9	90	90	Pass
6	111	6505	6430	-70	10	9	90	90	Pass
			6505	-70	10	9	90	90	Pass
			6580	-70	10	9	90	90	Pass
7	143	6665	6590	-70	10	9	90	90	Pass
			6665	-70	10	9	90	90	Pass
			6740	-70	10	9	90	90	Pass
8	207	6985	6910	-70	10	9	90	90	Pass
			6985	-70	10	9	90	90	Pass
			7060	-70	10	9	90	90	Pass

UNII Band	Test Channel	Freq. (MHz)	Interference Frequency (MHz)	Injected AWGN Power (dBm)	Antenna Gain (dBi)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
5	45	6175	6110	-71	-2.7	-68.3	-62	Ceased
				-78		-75.3	-62	Minimal
				-79		-76.3	-62	Normal
			6185	-71	-2.7	-68.3	-62	Ceased
				-78		-75.3	-62	Minimal
				-79		-76.3	-62	Normal
			6260	-71	-2.7	-68.3	-62	Ceased
				-78		-75.3	-62	Minimal
				-79		-76.3	-62	Normal
6	105	6475	6430	-70	-2.7	-67.3	-62	Ceased
				-78		-75.3	-62	Minimal
				-79		-76.3	-62	Normal
			6505	-70	-2.7	-67.3	-62	Ceased
				-78		-75.3	-62	Minimal
				-79		-76.3	-62	Normal
			6580	-70	-2.7	-67.3	-62	Ceased
				-78		-75.3	-62	Minimal
				-79		-76.3	-62	Normal

UNII Band	Test Channel	Freq. (MHz)	Interference Frequency (MHz)	Injected AWGN Power (dBm)	Antenna Gain (dBi)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
7	149	6695	6590	-59	-2.7	-67.3	-62	Ceased
				-74		-75.3	-62	Minimal
				-75		-76.3	-62	Normal
			6665	-59	-2.7	-67.3	-62	Ceased
				-74		-75.3	-62	Minimal
				-75		-76.3	-62	Normal
			6740	-59	-2.7	-67.3	-62	Ceased
				-74		-75.3	-62	Minimal
				-75		-76.3	-62	Normal
8	209	6995	6910	-59	-2.7	-67.3	-62	Ceased
				-74		-75.3	-62	Minimal
				-75		-76.3	-62	Normal
			6985	-59	-2.7	-67.3	-62	Ceased
				-74		-75.3	-62	Minimal
				-75		-76.3	-62	Normal
			7060	-59	-2.7	-67.3	-62	Ceased
				-74		-75.3	-62	Minimal
				-75		-76.3	-62	Normal

Note:

- Adjusted Power = Injected AWGN Power (dBm) – Minimum Antenna Gain (dBi)
- Include calibrated path loss in Injected AWGN power

Please refer to Appendix C for the details.

5.2 Mains Emission

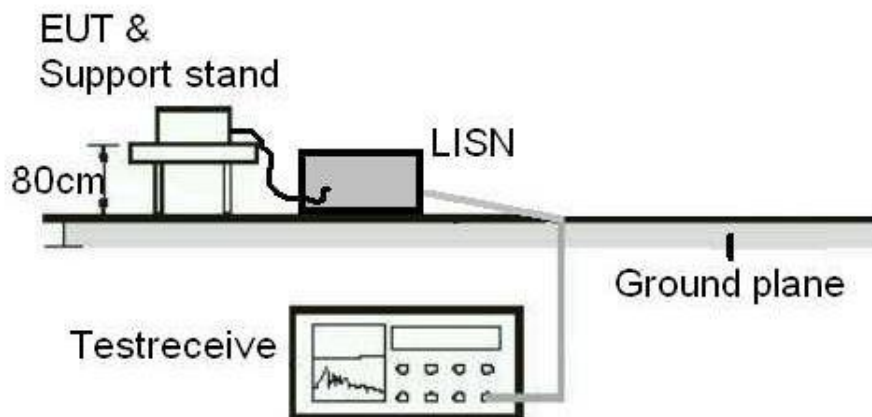
5.2.1 Mains Conducted Emission

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	SCHWARZBECK	NSLK 8127	8127-00976	2026/01/07	2027/01/06
EMI Test Receiver	R&S	ESCI	101094	2025/11/19	2026/11/18

Prüfbericht - Nr.: CN26WMZA 001
Test Report No.

Seite 42 von 42
Page 42 of 42

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 B.