



Test Report No.: <i>Prüfbericht-Nr.:</i>	JP26BN8I 001	Order No.: <i>Auftrags-Nr.:</i>	150328345	Page 1 of 105 <i>Seite 1 von 105</i>
Client Reference No.: <i>Kunden-Referenz-Nr.:</i>	N/A	Order Date: <i>Auftragsdatum:</i>	2026-03-25	
Client: <i>Auftraggeber:</i>	Faurecia Clarion Electronics Co., Ltd. 7-2 Shintoshin, Chuo-ku, Saitama-shi, Saitama 330-0081 Japan			
Test Item: <i>Prüfgegenstand:</i>	Car Audio			
Identification / Type No.: <i>Bezeichnung / Typ-Nr.:</i>	P2601	Serial No.: <i>Serien-Nr.:</i>	See Section 4.3	
Order Content: <i>Auftrags-Inhalt:</i>	Wireless Testing			
Test Specification: <i>Prüfgrundlage:</i>	FCC 47 CFR Part 15, Subpart E RSS-247 (Issue 4): 2025			
Date of Sample Receipt: <i>Wareneingangsdatum:</i>	2026-06-11	-/-		
Test Sample No.: <i>Prüfmuster-Nr.:</i>	A004305038-001 to 009, A004318673-001			
Testing Period: <i>Prüfzeitraum:</i>	2026-06-18 to 2026-07-02			
Place of Testing: <i>Ort der Prüfung:</i>	Yokohama EMC Laboratory			
Testing Laboratory: <i>Prüflaboratorium:</i>	TÜV Rheinland Japan Ltd.			
Test Result*: <i>Prüfergebnis*:</i>	Pass			
compiled by: <i>zusammengestellt von:</i>	<i>Hidetoshi Sasaki</i>	authorized by: <i>genehmigt von:</i>	<i>Daisuke Watanuki</i>	
Date: 2026-08-17 <i>Datum:</i>	Hidetoshi Sasaki	Issue Date: 2026-08-17 <i>Ausstellungsdatum:</i>	Daisuke Watanuki	
Position / Stellung:	Project Engineer	Position / Stellung:	Authorizer	
Other / Sonstiges: This test report covers 5GHz WLAN transmitter portions of the EUT for the application.				
Condition of the test item at delivery: <i>Zustand des Prüfgegenstandes bei Anlieferung:</i>		Test item complete and undamaged <i>Prüfmuster vollständig und unbeschädigt</i>		
* 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 * Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet				
This test report only relates to the above mentioned 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>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>				

Test Report No.:
Prüfbericht-Nr.:

JP26BN8I 001

Page 2 of 105
Seite 2 von 105

Revisions

Report No.	Issue date	Changes / Remarks
JP26BN8I 001	2026-08-17	Original document

Remarks

1	The equipment used during the specified testing period was calibrated according to the 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 the laboratory's management system.
2	Unless otherwise specified by the applied standard(s), the decision rule used in this test report for statements of conformity based on numerical measurement results is the "Zero Guard Band"/"Simple Acceptance" rule in accordance with ILAC G8:2019 and IEC Guide 115:2021. When the "Zero Guard Band" rule is applied, measurement uncertainty is not taken in account. For additional information on the risk resulting from the application of the "Zero Guard Band" decision rule, refer to ILAC G8:2019.

Contents

1.	General Remarks	5
1.1	Test Specifications	5
1.2	Test Report Purpose	6
1.3	Complementary Materials.....	6
2.	Test Sites	7
2.1	Test Facilities.....	7
2.2	List of Test and Measurement Instruments	7
2.3	Measurement Uncertainty.....	9
3.	General Product Information	10
3.1	Product Function and Intended Use	10
3.2	Ratings and System Details.....	10
3.3	Noise Generating and Noise Suppressing Parts	11
3.4	Submitted Documents and Information	11
4.	Test Setup and Operation Modes	12
4.1	Principle of Test Configuration Selection	12
4.2	Operation Modes	12
4.3	Physical Configuration for Testing	13
4.4	Test Software	15
4.5	Special Accessories and Auxiliary Equipment.....	15
4.6	Countermeasures to achieve Compliance	17
5.	Test Results R A D I O	18
5.1	Supply Voltage Requirements	18
5.2	Antenna Requirements	19
5.3	Restricted Bands of Operation.....	20
5.4	Maximum Output Power	21
5.5	6dB Bandwidth	34
5.6	99% Bandwidth.....	42
5.7	Maximum Power Spectral Density.....	50
5.8	Duty Cycle	60
5.9	Radiated Spurious Emissions of Transmitter and Band Edge	64
5.10	Frequency Stability	92

Test Report No.: Prüfbericht-Nr.:	JP26BN8I 001	Page 4 of 105 Seite 4 von 105
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5.11	AC Power Line Conducted Emission of Transmitter	97
6.	Photographs of the Test Setup.....	98
7.	List of Tables	102
8.	List of Figures	104
9.	List of Photographs	105

1. General Remarks

1.1 Test Specifications

Table 1: Test Summary

Test	Specifications	Result
Radio: FCC 47 CFR Part 15, Subpart E RSS-247 (Issue 4): 2025 RSS-Gen (Issue 5): 2018+Amendment 1:2019+Amendment 2:2021 ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024 KDB Publication No. 789033 D02 (v02r01): Guidelines for compliance testing of Unlicensed National Information Infrastructure (U-NII) devices Part 15, Subpart E		
Supply Voltage Requirements FCC §15.31(e)	See the section 5.1.	Pass
Antenna Requirements FCC §15.203	See the section 5.2.	Pass
Restricted Bands of Operation FCC §15.205 RSS-Gen §8.10	See the section 5.3.	Pass
Maximum Output Power FCC 15.407 (a)(3) RSS-247 Section 7.3	1W (30dBm) (Average Conducted) 4W (36dBm) (Peak EIRP) for ISSED	Pass
26dB Bandwidth FCC 15.407(a)(1)(iv), (2)	Not applicable since the EUT is not the device for the 5.25-5.35 GHz and 5.47-5.725 GHz bands.	N/A
6dB Bandwidth FCC 15.407 (e) RSS-247 §7.3	≥500kHz	Pass
99% Bandwidth RSS-Gen §6.7	-/-	For. Ref.
Maximum Power Spectral Density FCC 15.407 (a)(3) RSS-247 §7.3	<30dBm/500KHz (5725-5850MHz)	Pass
Duty Cycle	-/-	For. Ref.

Test	Specifications	Result
Radiated Spurious Emissions of Transmitter and Band Edge FCC §15.209 and §15.407(b) RSS-247 §7.3 and RSS-Gen §8.9, 8.10	9kHz - 40GHz	Pass
Frequency Stability FCC §15.407 (g) and §2.1055 (a) (1)	Temperature variation: -30 to +50°C	For. Ref.
Conducted Emission on AC Power Ports of Transmitter FCC §15.207(a) and RSS-Gen §8.8	150kHz - 30MHz Not applicable since the EUT is not the device that is designed to be connected to the public utility (AC) power line.	N/A

1.2 Test Report Purpose

The purpose of this test report is to show compliance of the EUT (Equipment Under Test) with the requirements of the FCC rules and ISED standards listed in section 1.1.

This test report covers the WLAN (5GHz) functionality of the product, which supports multiple wireless connectivity options including Bluetooth (Classic) and WLAN (2.4 GHz and 5 GHz).

The EUT can transmit simultaneously using Bluetooth Classic and either 2.4 GHz WLAN or 5 GHz WLAN. This report covers simultaneous transmission of Bluetooth and 5 GHz WLAN. For simultaneous transmission of Bluetooth and 2.4 GHz WLAN, refer to JP26TKQ6 001.

1.3 Complementary Materials

There is no attachment to this test report.

2. Test Sites

2.1 Test Facilities

TÜV Rheinland Japan Ltd. – Global Technology Assessment Center
4-25-2 Kita-Yamata, Tsuzuki-ku, Yokohama 224-0021, Japan

The test facility is accredited by VLAC (member of ILAC) under accreditation number VLAC-017-1 according to ISO/IEC 17025:2017.

The test facility is recognized by the Federal Communications Commission (FCC) as Accredited Testing Laboratory under Designation Number JP0017 and test firm registration number 386498.

The test site is registered by Innovation, Science and Economic Development Canada (ISED) under OATS filing number 3466B-1.

2.2 List of Test and Measurement Instruments

Table 2: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Model Name	Serial Number	Equip. ID	Cal. Interval	Cal. Date	Next Cal.
For Antenna Port Conducted Emission							
EMI Receiver	Rohde & Schwarz	ESW 26	101316	RF-0812	1 year	2026-06-16	2027-06-16
EMI Receiver	Rohde & Schwarz	ESW 44	103396	RF-1250	1 year	2026-05-27	2027-05-27
Temperature Chamber	Voetsch	VT 4018	58566025 090010	BT-8012	1 year	2025-07-04	2026-07-04
For Radiated Emission (RE)							
Path Loss Correction Factors for RE above 1GHz	-	-	-	RF-0995	1 year	2025-11-06	2026-11-06
RE Meas. Software	Toyo Corporation	ES10/RE-AJ	0600-0179-80	RF-1263	N/A	N/A	N/A
EMI Receiver	Rohde & Schwarz	ESW 44	103396	RF-1250	1 year	2026-05-27	2027-05-27
Horn Antenna, 1-8GHz	Schwarzbeck	BBHA9120 D	9120D-2280	RF-0845	1 year	2026-02-27	2027-02-27
MMW PreAmp 0-50GHz	NEXTEM	RFA-1050000-40	RFA-1905-01	RF-1140	1 year	2025-11-06	2026-11-06

Test Report No.: **JP26BN8I 001**
Prüfbericht-Nr.:

Page 8 of 105
Seite 8 von 105

Kind of Equipment	Manufacturer	Model Name	Serial Number	Equip. ID	Cal. Interval	Cal. Date	Next Cal.
Horn Antenna, 1-18GHz	Schwarzbeck	BBHA9120 D	9120D-2280	RF-0845	1 year	2026-02-27	2027-02-27
Horn Antenna, 6-18GHz (RX)	Schwarzbeck Mess-Elektronik	BBHA9120 C	00775	RF-1315	2 years	2025-10-31	2027-10-31
Pre-amplifier for RF-1315 (6-18 GHz)	TOYO Corporation	HAP06-18W	B1510452 210-123	RF-1318	1 year	2025-11-05	2026-11-05
High Pass Filter, 8-18GHz	Micro-Tronics	HPM50107	G089	RF-1095	N/A	N/A	N/A
Horn Antenna, 18-26.5GHz (RX)	AMETEK	ANT-SGH-18-26.5	11568	RF-1316	1 year	2025-10-31	2026-10-31
Pre-amplifier for RF-1316 (18-26.5 GHz)	Toyo Corporation	HAP18-26W	B2010482 210-125	RF-1319	1 year	2025-11-05	2026-11-05
Horn Antenna, 26.5 -40GHz (RX)	AMETEK	ANT-SGH-26.5-40	11894	RF-1317	1 year	2026-02-27	2027-02-27
Pre-amplifier for RF-1317, 26.5-40GHz	TOYO Corporation	HAP26-40W	B3208602 210-126	RF-1320	1 year	2026-03-09	2027-03-09
Band Reject Filter, 2.4-2.5GHz	Micro-Tronics	BRM50702	G488	RF-0933	1 year	2025-09-19	2026-09-19
Constant Voltage Constant Frequency Stabilizers and Power Accessories							
CVCF (10m Chamber)	NF Corporation	ES2000U	9067307	RF-0212	1 year	2026-03-06	2027-03-06
CVCF Booster (10m Chamber)	NF Corporation	ES2000B	9074408	RF-0213	1 year	2026-03-06	2027-03-06
Regulated DC Power Supply	Kikusui	PAN 110-5A	DK000274	RF-1112	N/A	N/A	N/A
True RMS Multimeter (10m Chamber)	Fluke	87V	97680450	RF-0282	1 year	2026-04-17	2027-04-17
True RMS Multimeter	Fluke	83V	66970372	RF-1382	1 year	2026-01-26	2027-01-26

Conformance of the used measurement and test equipment with the requirements of ISO/IEC 17025 has been confirmed before testing.

2.3 Measurement Uncertainty

Table 3: Measurement Uncertainty

Measurement Type	Frequency Range	Uncertainty (k=2)
Conducted Emission on RF Ports	30MHz-26.5GHz	±2.58dB
Magnetic Field Strength	9kHz - 30MHz	±4.79dB
Radiated Emission up to 1GHz	30MHz - 1GHz (3m Distance)	±6.01dB (Vertical) ±4.95dB (Horizontal)
Radiated Emission above 1GHz	1 - 6GHz	±5.17dB
	6 - 18GHz	±4.96dB
	18 - 40GHz	±5.05dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is a Car Audio to be installed in vehicles with wireless connectivity of Bluetooth Classic, WLAN (2.4GHz and 5GHz) and GNSS.

3.2 Ratings and System Details

Radio standard: IEEE 802.11a, IEEE 802.11n (HT20), IEEE 802.11n (HT40)
IEEE 802.11ac (VHT40), IEEE 802.11ac (VHT80)

Frequency range: IEEE 802.11a, IEEE 802.11n (HT20):
5745 - 5825MHz
IEEE 802.11n (HT40), IEEE 802.11ac (VHT40):
5755 - 5795MHz
IEEE 802.11ac (VHT80):
5775MHz

Association: Client Device

Specified output power: 7.33dBm (conducted average power)

Antenna gain: -1.36dBi for U-NII-3

Antenna type: Film Antenna

Antenna mounting type: Internal

Modulation type: BPSK, QPSK, 16 QAM, 64QAM, 256QAM

Signal spreading: OFDM

Simultaneous transmission: WLAN 5GHz or WLAN 2.4GHz and Bluetooth can transmit simultaneously.

FCC classification: NII

ISED classification: WLAN, Vehicle Device, RSS-247 Non-DFS

Emission designator: D1D

Rated voltage: DC 12V

Rated input Current: 3A

Protection class: III

Test voltage: DC 13.2V for radio testing

3.3 Noise Generating and Noise Suppressing Parts

The highest frequency generated or used by the EUT is 5825MHz as intentional radiator portion.

3.4 Submitted Documents and Information

Following documents have been submitted by the client:

Following information provided in this test report has been submitted by the client, and the laboratory assumes no responsibility for its accuracy:

- client name and address;
- EUT identification, ratings, system details, and description of product function, operation and intended use;
- information related to noise generating and noise suppressing parts (if any).

4. Test Setup and Operation Modes

4.1 Principle of Test Configuration Selection

Radio: The test methodology used is based on the requirements of 47 CFR Part 15, sections 15.31, 15.33, 15.35, 15.205, 15.207, 15.209 and 15.407.

The test methodology used is based on the requirements of RSS-Gen, sections 3.2 and RSS-247.

The test methods, which have been used, are based on ANSI C63.10 and KDB 789033 D02.

For details, see under each test item.

4.2 Operation Modes

The operation modes used for testing are:

- A. EUT transmits a continuous modulated signal at specified channel (low, middle and high channels)

Configurations:

IEEE 802.11a:	6Mbps, Power setting 11dBm
IEEE 802.11n (HT20):	MCS 0, Power setting 10dBm
IEEE 802.11n (HT40):	MCS 0, Power setting 10dBm
IEEE 802.11ac (VHT40):	MCS 0, Power setting 9dBm
IEEE 802.11ac (VHT80):	MCS 0, Power setting 9dBm

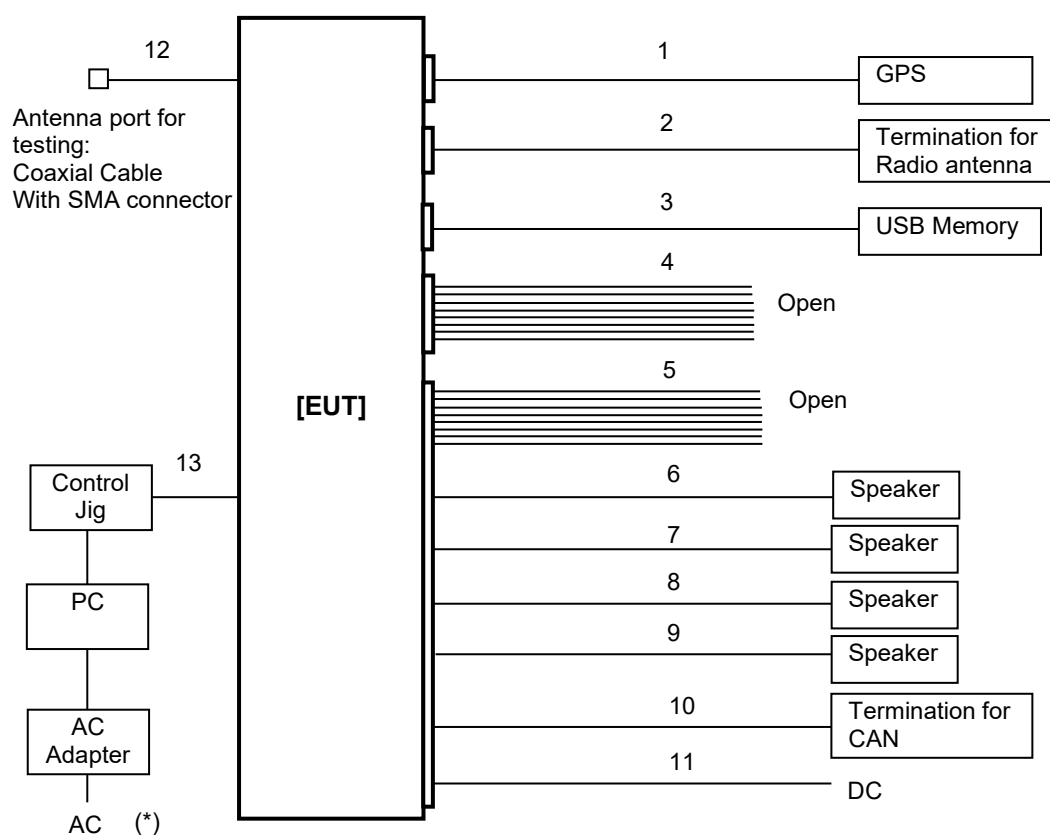
Note: The worst condition was determined based on the test result of Maximum Output Power at a certain specific channel.

4.3 Physical Configuration for Testing

The EUT was tested on a stand-alone basis and the test system was configured in a typical fashion (as a customer would normally use it).

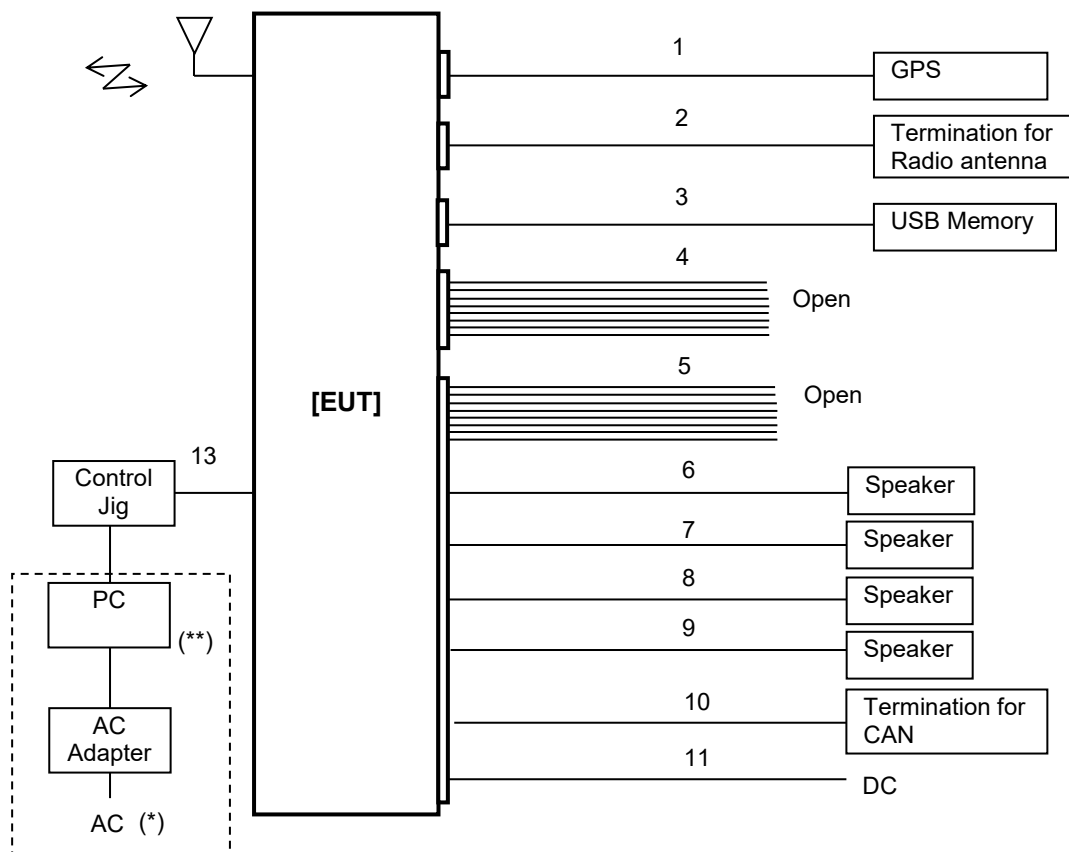
The justification and manipulation of cables and equipment in order to simulate a worst-case behavior of the test setup has been carried out as prescribed in ANSI C63.10.

Figure 1: Block Diagram (Conducted Test)



(*): AC adapter is used only for the auxiliary PC and is not part of the EUT power input.

Figure 2: Block Diagram (Radiated Test)



(*): AC adapter is used only for the auxiliary PC and is not part of the EUT power input.

(**): PC was disconnected during the test.

Table 4: Serial Number of the EUT

Serial Number	Test
2051	For Conducted Test
2075	For Radiated Test

Table 5: Interfaces present on the EUT

No.	Interface	Cable Length for Testing, Shielding	Interface Classification
1.	GPS	2.5m, shielded	Signal port
2.	Radio Antenna	0.3m, shielded	Signal port
3.	USB	2.0m, shielded	Signal port
4.	Signal	1.2m, un-shielded	Signal port
5.	Signal	1.2m, un-shielded	Signal port
6.	Signal	1.2m, un-shielded	Signal port
7.	Signal	1.2m, un-shielded	Signal port
8.	Signal	1.2m, un-shielded	Signal port
9.	Signal	1.2m, un-shielded	Signal port
10.	Signal	1.2m, un-shielded	Signal port
11.	DC	1.2m, un-shielded	DC port
12.	Coaxial cable	0.2m	For conducted testing purpose only
13.	Control cable	0.3m	For testing purpose only

Note: Cables No. 5 through No. 11 are connected to the same single connector.

For more details, refer to section: Photographs of the Test Setup.

4.4 Test Software

The EUT was provided by the manufacturer with suitable internal software to allow operation in all the required modes.

Software used for testing: Tera Term version 4.106 by Tera Term Project. This software was running on the laptop computer connected to the EUT. It was used to enable the operation modes listed in section 4.2 as appropriate.

4.5 Special Accessories and Auxiliary Equipment

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

- Product: Laptop PC
Manufacturer: hp
Model: HSN-I14C-5
Rated Voltage: DC 19.5V or 20V
Input Current: 2.31A or 2.25A
Protection Class: III
Serial Number: JPH9029GYQ

Test Report No.:
Prüfbericht-Nr.:

JP26BN8I 001

Page 16 of 105
Seite 16 von 105

2. Product: AC Adapter for PC
Manufacturer: hp
Model: HSTNN-CA41
Rated Voltage: AC 100-240V
Input Current: 1.4A
Frequency: 50-60Hz
Protection Class: II
Serial Number: CT:WDVTN0CGC9X1DN 0C
3. Product: GPS
Manufacturer: Faurecia Clarion Electronics Co., Ltd.
Model: 096-0146-00
Protection Class: III
Serial Number: 18600003
4. Product: Termination for Radio Antenna
Manufacturer: TAMAGAWA
Model: CT-01BP
Power: 1W
Protection Class: III
Serial Number: None
5. Product: USB Memory
Manufacturer: BUFFALO INC.
Model: RUF3-C
Rated Voltage: DC5V
Input Current: 0.5A
Protection Class: III
Serial Number: I2091801559
6. Product: Speaker
Manufacturer: Tiaoping
Model: TP1371
Power: 35W
Protection Class: III
Serial Number: None
7. Product: Speaker
Manufacturer: Tiaoping
Model: TP1371
Power: 35W
Protection Class: III
Serial Number: None

Test Report No.: **JP26BN8I 001**
Prüfbericht-Nr.:

Page 17 of 105
Seite 17 von 105

8. Product: Speaker
Manufacturer: Tiaoping
Model: TP1371
Power: 35W
Protection Class: III
Serial Number: None
9. Product: Speaker
Manufacturer: Tiaoping
Model: TP1371
Power: 35W
Protection Class: III
Serial Number: None
10. Product: Termination for CAN
Manufacturer: Faurecia Clarion Electronics Co., Ltd.
Model: None
Rated Voltage: DC12V
Protection Class: III
11. Product: Control Jig
Manufacturer: Faurecia Clarion Electronics Co., Ltd.
Model: None
Rated Voltage: DC5V
Protection Class: III

4.6 Countermeasures to achieve Compliance

No additional measures were employed to achieve compliance.

5. Test Results RADIO

5.1 Supply Voltage Requirements

RESULT:

Pass

Requirements:

FCC §15.31(e)

For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

Verdict:

The EUT has an internal voltage regulator to supply the RF circuit. Hence it complies with the supply voltage requirements.

5.2 Antenna Requirements

RESULT:

Pass

Requirements:

FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

All antennas for use with the EUT must be listed in the application, including a test report.

Verdict:

As per the guidance by KDB Publication No. 353028 D01, three ways can be used for a Part 15 Intentional radiator. a) Antenna permanently attached is applicable to the EUT.

The EUT has an internal antenna which is not user accessible. Hence it complies with the antenna requirements.

5.3 Restricted Bands of Operation

RESULT:

Pass

Requirements:

FCC §15.205 and RSS-Gen §8.10

Only spurious emissions are permitted in any of the restricted frequency bands, unless otherwise specified.

Verdict:

The Operation frequency range of the EUT is 5745-5825MHz. Therefore only spurious emissions may be found in the restricted bands of operation and the EUT complies with the restricted frequency band requirement.

5.4 Maximum Output Power

RESULT:

Pass

Date of testing: 2026-06-19, 2026-06-29, 2026-06-30
2026-07-02

Ambient temperature: 23, 23, 28, 27°C
Relative humidity: 64, 59, 46, 49%
Atmospheric pressure: 1009, 1009, 1006, 1002hPa

Requirements:

FCC §15.407(a)(3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RSS-247 §7.3

Equipment operating in the band 5725-5850 shall comply with the following power limits:

- a. the maximum conducted output power shall not exceed 1 W

When using transmitting antennas with a directional gain exceeding 6 dBi, the maximum conducted output power and the output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test procedure:

ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024 §12.4.2.2 SA-1 and 12.4.2.2 SA-2, KDB 789033 D02.

The maximum average output power was measured at the antenna port with a spectrum analyzer using a RMS detector. The resolution bandwidth was set to 1MHz and the video bandwidth was set to 3 MHz. The power was integrated over the 99% bandwidth for each item to calculate the maximum output power.

The readings of the measurements take into account the loss generated by all the involved cables.

For data rates with a duty cycle of 98% or higher, the SA-1 method was used, and for data rates with a duty cycle below 98%, the SA-2 method was used. For data rates with a duty cycle below 98%, a duty cycle correction factor was added.

Table 6: Maximum Output Power, 802.11a, 6Mbps

Freq. [MHz]	99% OBW [MHz]	Cond. Power [dBm]	Cond. Power Limit [dBm]	Cond. Power Margin [dB]	Antenna Gain [dBi]	e.i.r.p. [dBm]	e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
5745	17.887	7.28	30.00	22.72	-1.36	5.92	36.00	30.08
5785	17.824	7.33	30.00	22.67	-1.36	5.97	36.00	30.03
5825	17.924	7.25	30.00	22.75	-1.36	5.89	36.00	30.11

Note:

Cable (including temporary RF cable) and attenuator loss has been compensated for Cond. Power.
e.i.r.p. [dBm] = Cond. Power [dBm] + Antenna Gain [dBi]

The cells shaded in gray represent the highest power among all radios.

Table 7: Maximum Conducted Output Power, 802.11a, 5785MHz, all Data Rates

Data Rate [Mbps]	Reading [dBm]	Duty Cycle	Duty Factor [dB]	Result [dBm]	Remark
6	7.33	99.08%	N/A	7.33	Worst
9	7.01	98.60%	N/A	7.01	
12	7.14	98.16%	N/A	7.14	
18	6.64	97.29%	0.12	6.76	
24	6.47	96.45%	0.16	6.63	
36	5.68	94.74%	0.23	5.91	
48	4.99	93.45%	0.29	5.28	
54	4.40	92.76%	0.33	4.73	

Note: Duty Factor = $10 \times \log(1 / \text{Duty Cycle})$

Figure 3: Maximum Output Power, 802.11a, 5745MHz

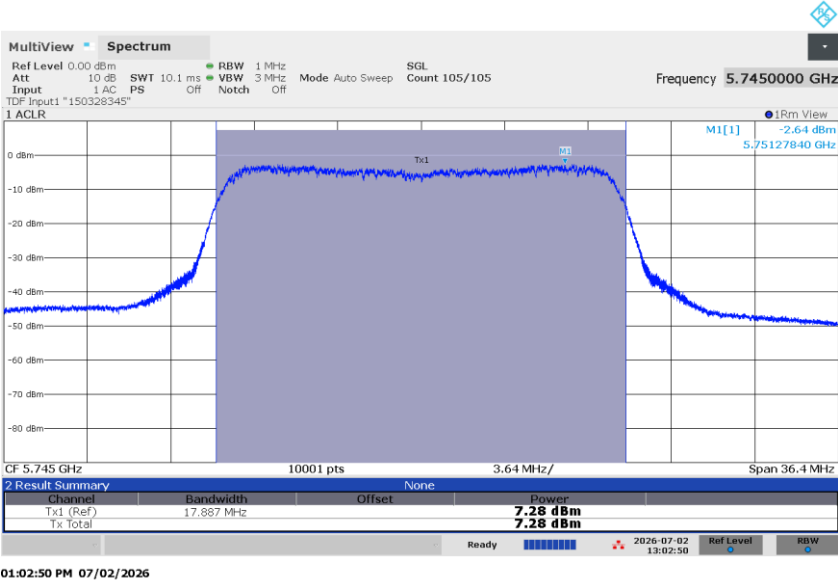


Figure 4: Maximum Output Power, 802.11a, 5785MHz

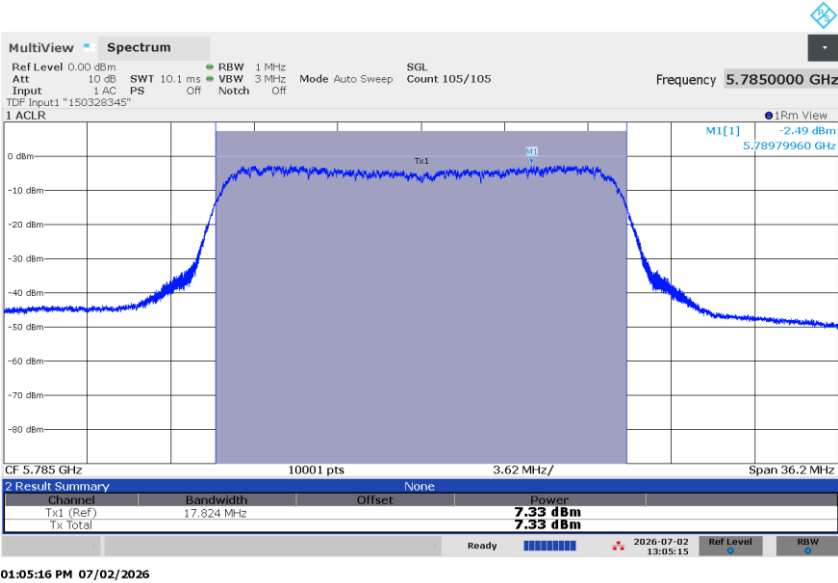
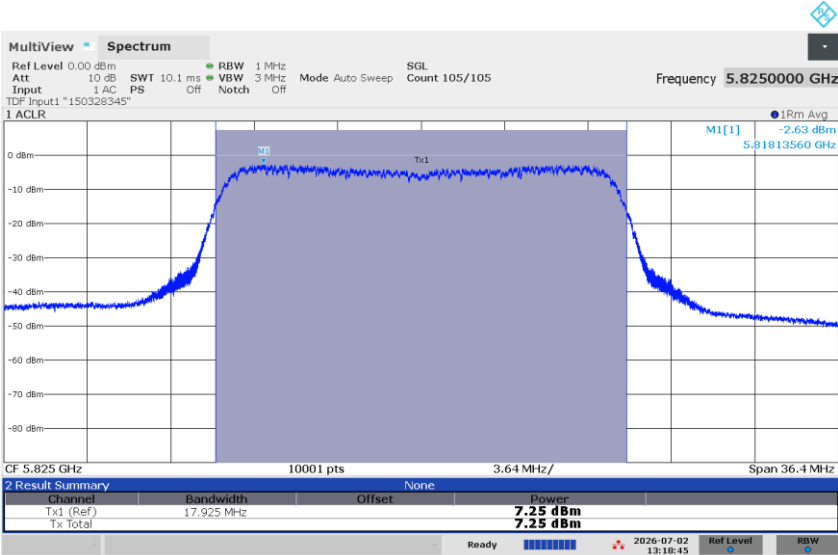


Figure 5: Maximum Output Power, 802.11a, 5825MHz



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Table 8: Maximum Output Power, 802.11n (HT20), MCS0

Freq. [MHz]	99% OBW [MHz]	Cond. Power [dBm]	Cond. Power Limit [dBm]	Cond. Power Margin [dB]	Antenna Gain [dBi]	e.i.r.p. [dBm]	e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
5745	18.854	6.30	30.00	23.70	-1.36	4.94	36.00	31.06
5785	18.845	6.47	30.00	23.53	-1.36	5.11	36.00	30.89
5825	18.836	6.25	30.00	23.75	-1.36	4.89	36.00	31.11

Note:

Cable (including temporary RF cable) and attenuator loss has been compensated for Cond. Power.
e.i.r.p. [dBm] = Cond. Power [dBm] + Antenna Gain [dBi]

Table 9: Maximum Conducted Output Power, 802.11n (HT20), 5785MHz, all Data Rates

Data Rate	Reading [dBm]	Duty Cycle	Duty Factor [dB]	Result [dBm]	Remark
0	6.47	98.98%	N/A	6.47	Worst
1	6.04	98.06%	N/A	6.04	
2	5.68	97.14%	0.13	5.81	
3	5.75	96.29%	0.16	5.91	
4	4.79	94.73%	0.23	5.02	
5	4.03	93.36%	0.30	4.33	
6	3.78	92.76%	0.33	4.11	
7	3.40	92.18%	0.35	3.75	

Note: Duty Factor = $10 \times \log(1 / \text{Duty Cycle})$

Figure 6: Maximum Output Power, 802.11n (HT20), 5745MHz

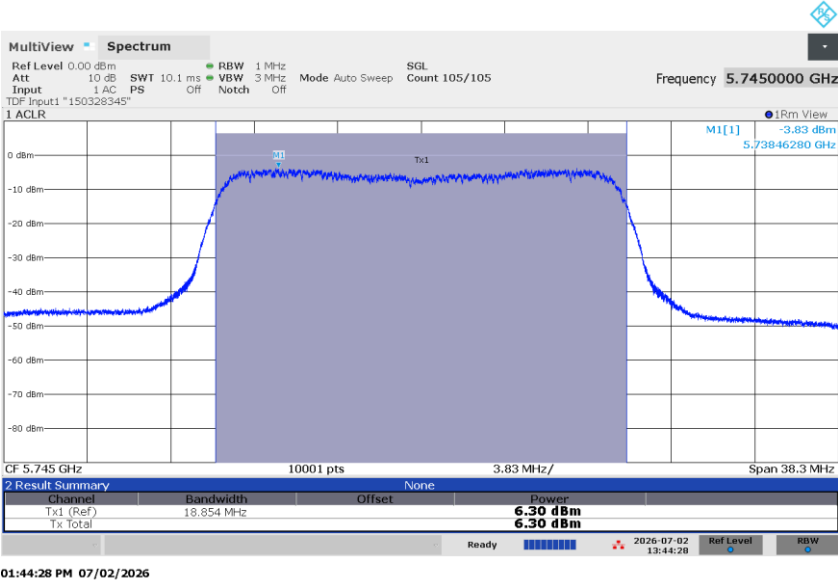


Figure 7: Maximum Output Power, 802.11n (HT20), 5785MHz

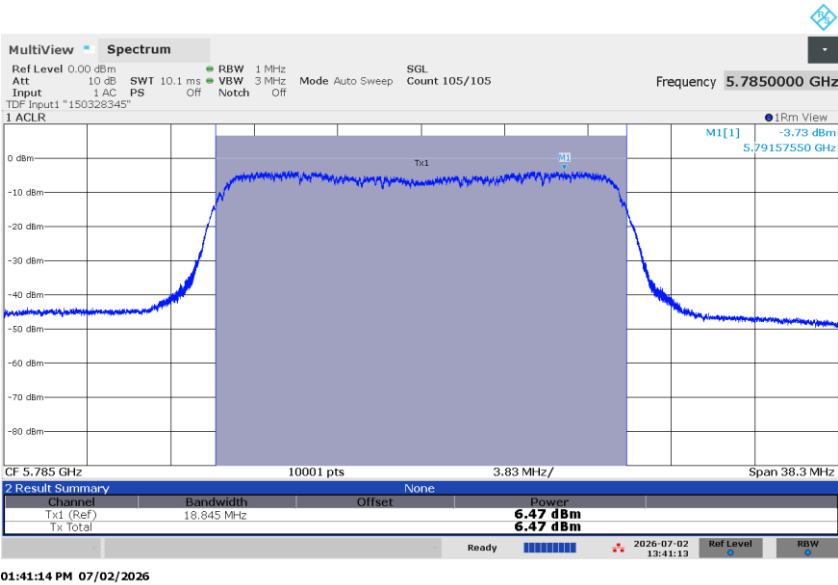
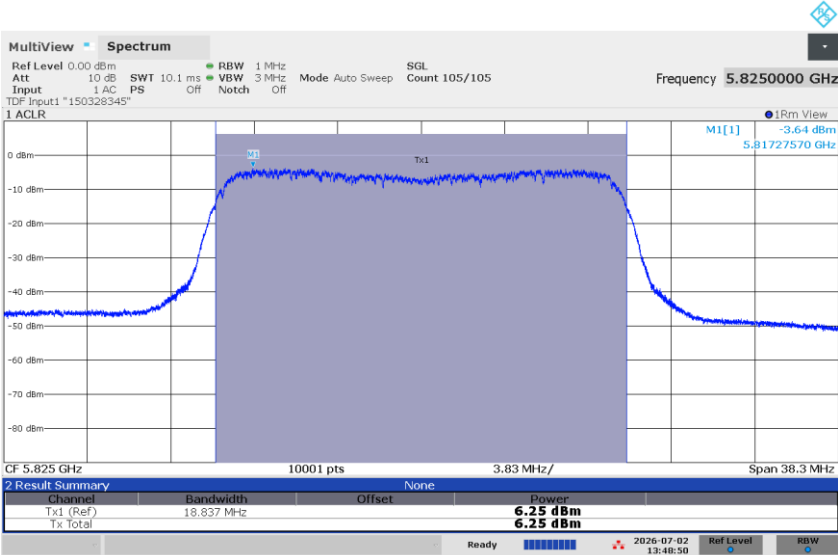


Figure 8: Maximum Output Power, 802.11n (HT20), 5825MHz



01:48:51 PM 07/02/2026

Table 10: Maximum Output Power, 802.11n (HT40), MCS0

Freq. [MHz]	99% OBW [MHz]	Cond. Power [dBm]	Cond. Power Limit [dBm]	Cond. Power Margin [dB]	Antenna Gain [dBi]	e.i.r.p. [dBm]	e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
5755	36.504	6.20	30.00	23.80	-1.36	4.84	36.00	31.16
5795	36.499	6.16	30.00	23.84	-1.36	4.80	36.00	31.20

Note:

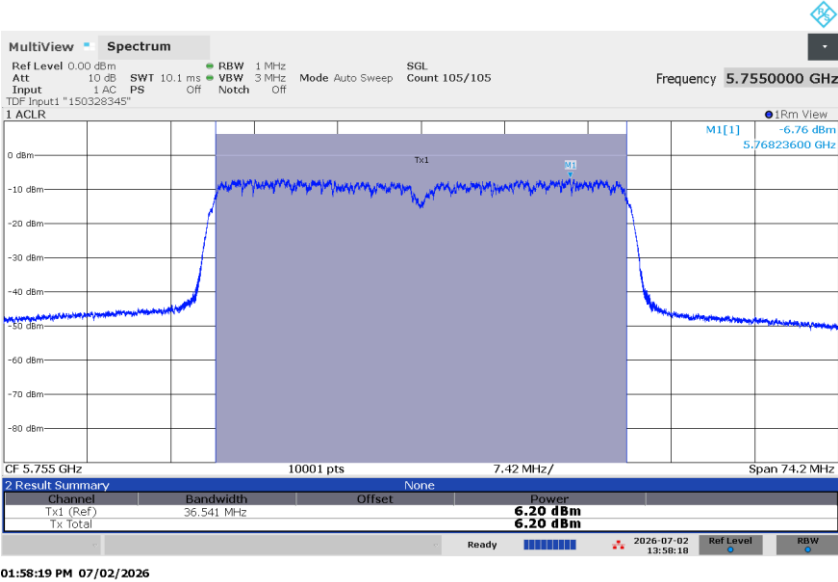
Cable (including temporary RF cable) and attenuator loss has been compensated for Cond. Power.
e.i.r.p. [dBm] = Cond. Power [dBm] + Antenna Gain [dBi]

Table 11: Maximum Conducted Output Power, 802.11n (HT40), 5795MHz, all Data Rates

Data Rate	Reading [dBm]	Duty Cycle	Duty Factor [dB]	Result [dBm]	Remark
0	6.16	98.99%	N/A	6.16	Worst
1	5.39	98.04%	N/A	5.39	
2	4.69	97.14%	0.13	4.82	
3	4.00	96.33%	0.16	4.16	
4	2.77	94.78%	0.23	3.00	
5	2.14	93.36%	0.30	2.44	
6	1.34	92.84%	0.32	1.66	
7	0.85	92.10%	0.36	1.21	

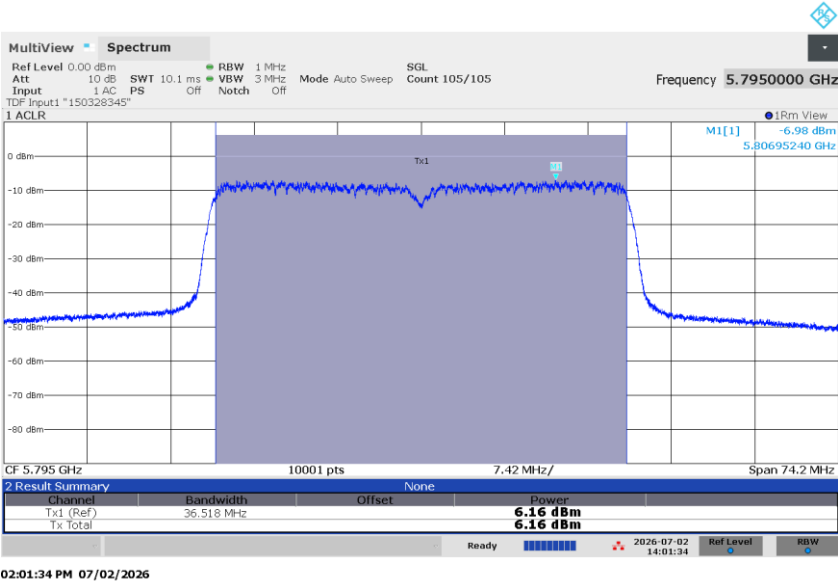
Note: Duty Factor = $10 \times \log(1 / \text{Duty Cycle})$

Figure 9: Maximum Output Power, 802.11n (HT40), 5755MHz



01:58:19 PM 07/02/2026

Figure 10: Maximum Output Power, 802.11n (HT40), 5795MHz



02:01:34 PM 07/02/2026

Test Report No.:
Prüfbericht-Nr.:

JP26BN8I 001

Page 30 of 105
Seite 30 von 105

Table 12: Maximum Output Power, 802.11ac (VHT40), MCS0

Freq. [MHz]	99% OBW [MHz]	Cond. Power [dBm]	Cond. Power Limit [dBm]	Cond. Power Margin [dB]	Antenna Gain [dBi]	e.i.r.p. [dBm]	e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
5755	36.598	5.20	30.00	24.80	-1.36	3.84	36.00	32.16
5795	36.522	5.08	30.00	24.92	-1.36	3.72	36.00	32.28

Note:

Cable (including temporary RF cable) and attenuator loss has been compensated for Cond. Power.
e.i.r.p. [dBm] = Cond. Power [dBm] + Antenna Gain [dBi]

Table 13: Maximum Conducted Output Power, 802.11ac (VHT40), 5795MHz, all Data Rates

Data Rate	Reading [dBm]	Duty Cycle	Duty Factor [dB]	Result [dBm]	Remark
0	5.08	99.00%	N/A	5.08	Worst
1	4.56	98.06%	N/A	4.56	
2	3.70	97.17%	0.12	3.82	
3	3.23	96.38%	0.16	3.39	
4	1.84	94.79%	0.23	2.07	
5	1.19	93.47%	0.29	1.48	
6	0.74	92.80%	0.32	1.06	
7	0.44	92.23%	0.35	0.79	
8	-0.48	91.19%	0.40	-0.08	
9	-0.81	91.19%	0.40	-0.41	

Note: Duty Factor = $10 \times \log(1 / \text{Duty Cycle})$

Figure 11: Maximum Output Power, 802.11ac (VHT40), 5755MHz

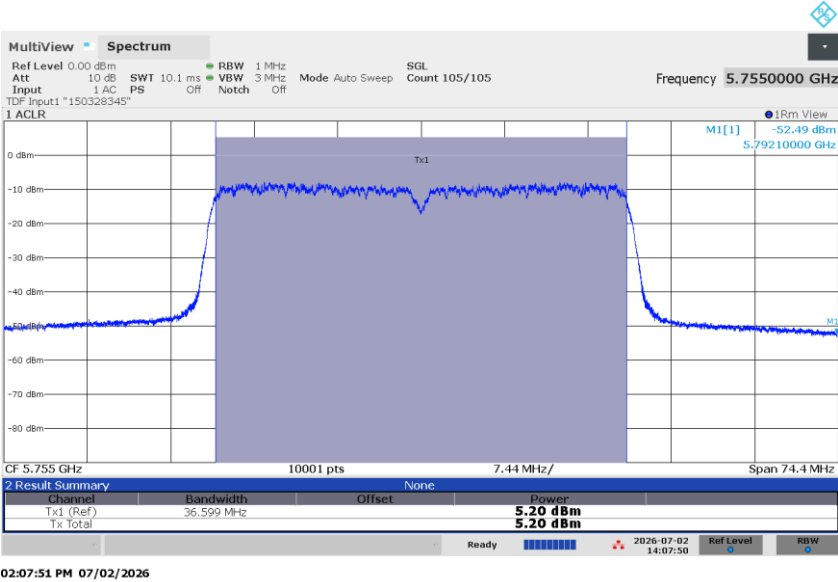


Figure 12: Maximum Output Power, 802.11ac (VHT40), 5795MHz

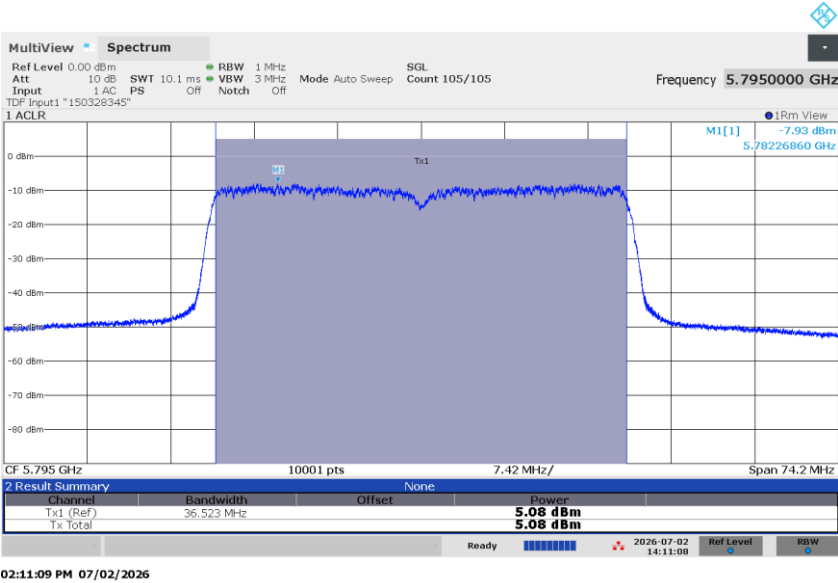


Table 14: Maximum Output Power, 802.11ac (VHT80), MCS0

Freq. [MHz]	99% OBW [MHz]	Cond. Power [dBm]	Cond. Power Limit [dBm]	Cond. Power Margin [dB]	Antenna Gain [dBi]	e.i.r.p. [dBm]	e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
5775	75.896	4.09	30.00	25.91	-1.36	2.73	36.00	33.27

Note:

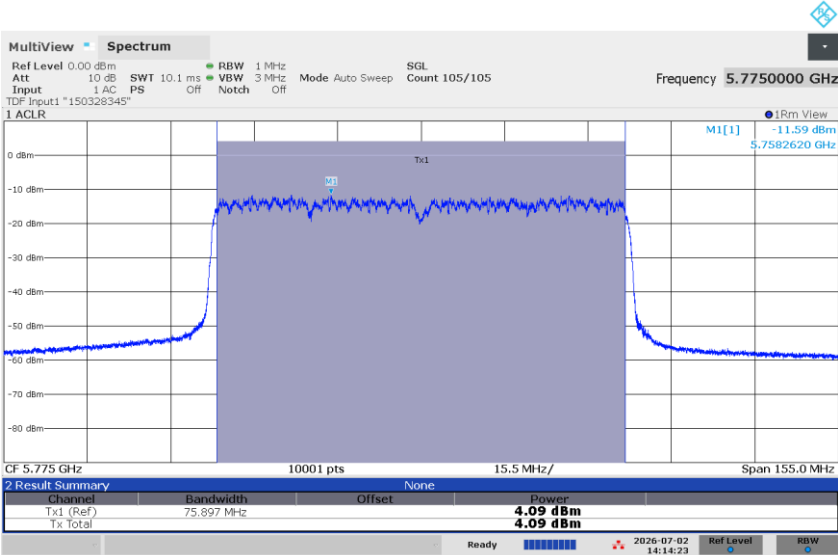
Cable (including temporary RF cable) and attenuator loss has been compensated for Cond. Power.
e.i.r.p. [dBm] = Cond. Power [dBm] + Antenna Gain [dBi]

Table 15: Maximum Conducted Output Power, 802.11ac (VHT80), 5775MHz, all Data Rates

Data Rate	Reading [dBm]	Duty Cycle	Duty Factor [dB]	Result [dBm]	Remark
0	4.09	99.01%	N/A	4.09	Worst
1	2.73	98.06%	N/A	2.73	
2	1.47	97.17%	0.12	1.59	
3	0.63	96.34%	0.16	0.79	
4	-0.63	94.79%	0.23	-0.40	
5	-1.12	93.47%	0.29	-0.83	
6	-2.26	92.87%	0.32	-1.94	
7	-2.47	92.30%	0.35	-2.12	
8	-3.25	91.10%	0.40	-2.85	
9	-3.75	91.10%	0.40	-3.35	

Note: Duty Factor = $10 \times \log(1 / \text{Duty Cycle})$

Figure 13: Maximum Output Power, 802.11ac (VHT80), 5775MHz



02:14:24 PM 07/02/2026

Test Report No.:
Prüfbericht-Nr.:

JP26BN8I 001

Page 34 of 105
Seite 34 von 105

5.5 6dB Bandwidth

RESULT:

Pass

Date of testing: 2026-06-19, 2026-06-29, 2026-06-30
2026-07-02

Ambient temperature: 23, 23, 28, 27°C
Relative humidity: 64, 59, 46, 49%
Atmospheric pressure: 1009, 1009, 1006, 1002hPa

Requirements:

FCC §15.407 (e) and RSS-247 §7.3

Within the 5.725-5.850 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test procedure:

ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024 §12.5

The 6dB bandwidth was measured at the antenna port with a spectrum analyzer using a peak detector. Markers placed at the lowest and highest intersections of the trace with a 6dBc line were used to calculate the emission bandwidth.

Table 16: 6dB Bandwidth, 802.11a

Operating Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
5745	16.3584	>0.5
5785	16.3584	>0.5
5825	16.3544	>0.5

Figure 14: 6dB Bandwidth, 802.11a, 5745MHz

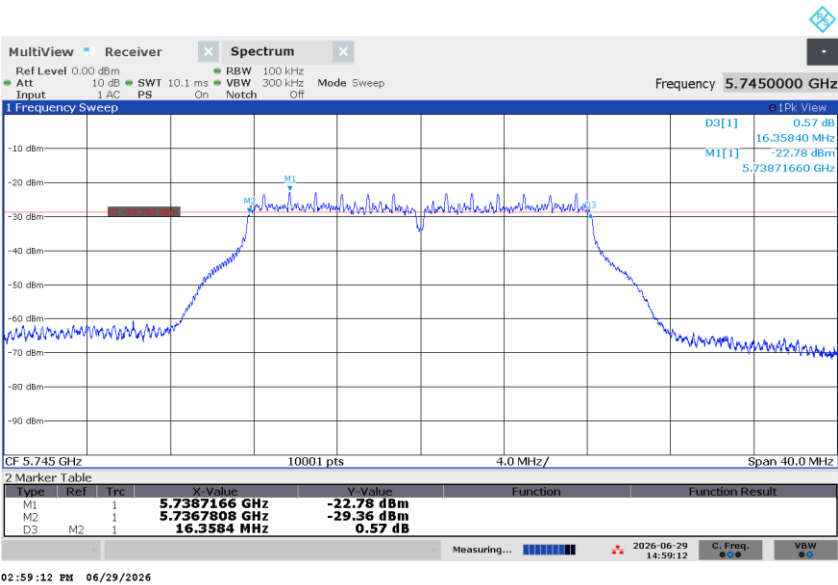


Figure 15: 6dB Bandwidth, 802.11a, 5785MHz

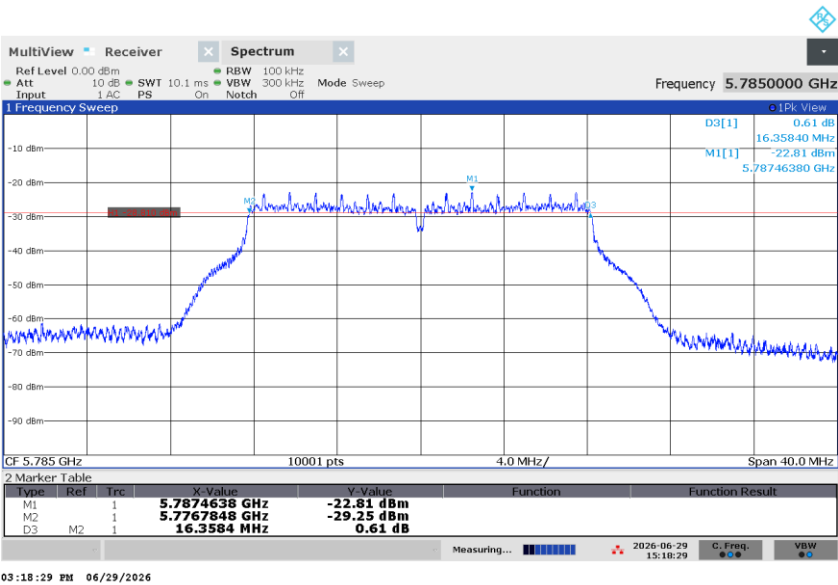


Figure 16: 6dB Bandwidth, 802.11a, 5825MHz

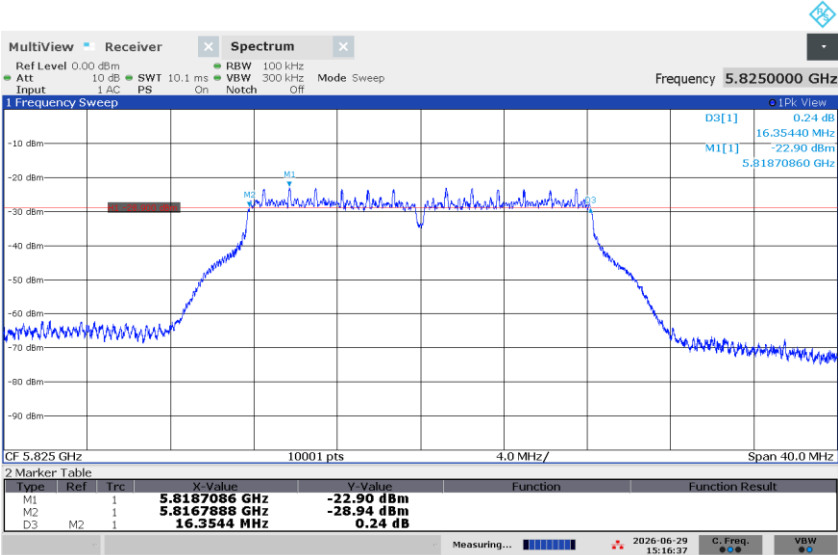


Table 17: 6dB Bandwidth, 802.11n (HT20)

Operating Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
5745	17.5942	>0.5
5785	17.6022	>0.5
5825	17.6022	>0.5

Figure 17: 6dB Bandwidth, 802.11n (HT20), 5745MHz

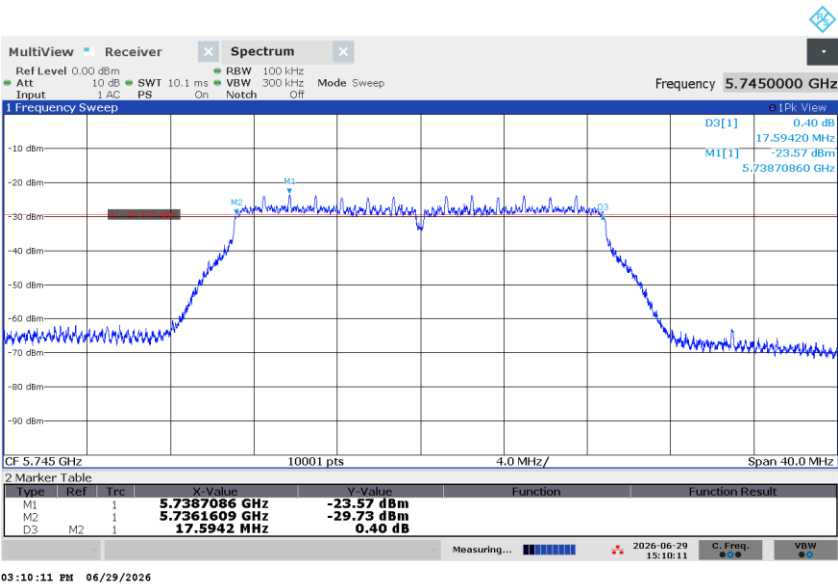


Figure 18: 6dB Bandwidth, 802.11n (HT20), 5785MHz

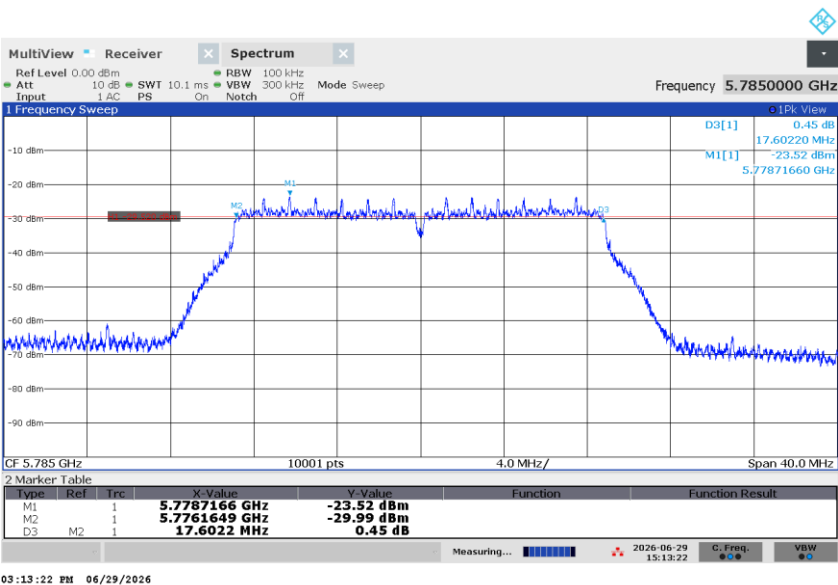


Figure 19: 6dB Bandwidth, 802.11n (HT20), 5825MHz

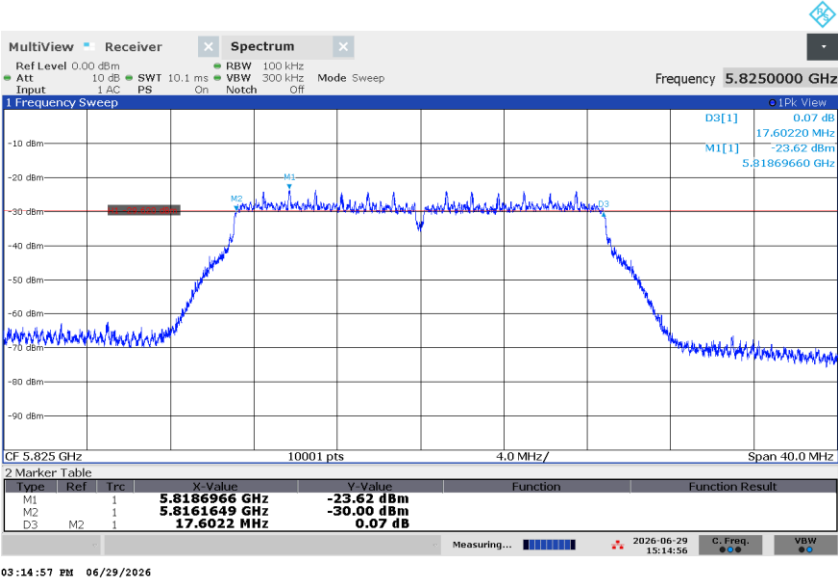


Table 18: 6dB Bandwidth, 802.11n (HT40)

Operating Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
5755	36.3724	>0.5
5795	36.3484	>0.5

Figure 20: 6dB Bandwidth, 802.11n (HT40), 5755MHz

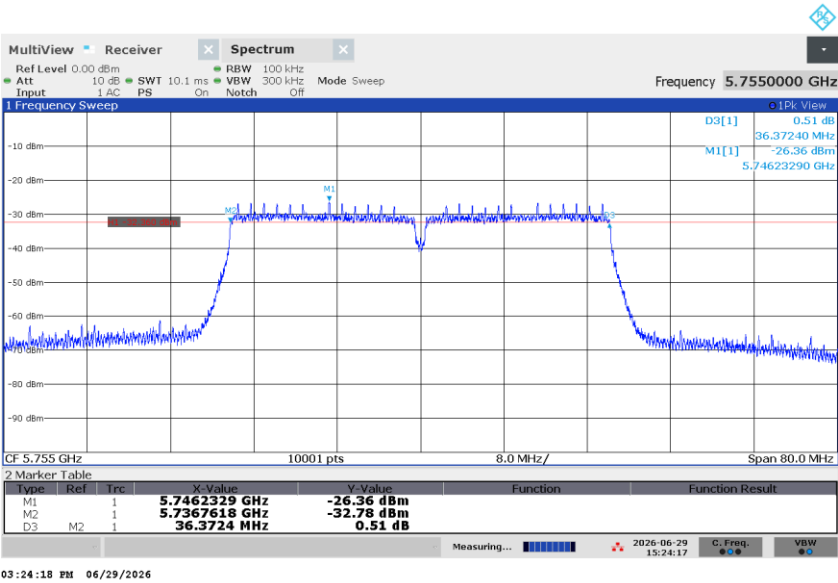


Figure 21: 6dB Bandwidth, 802.11n (HT40), 5795MHz

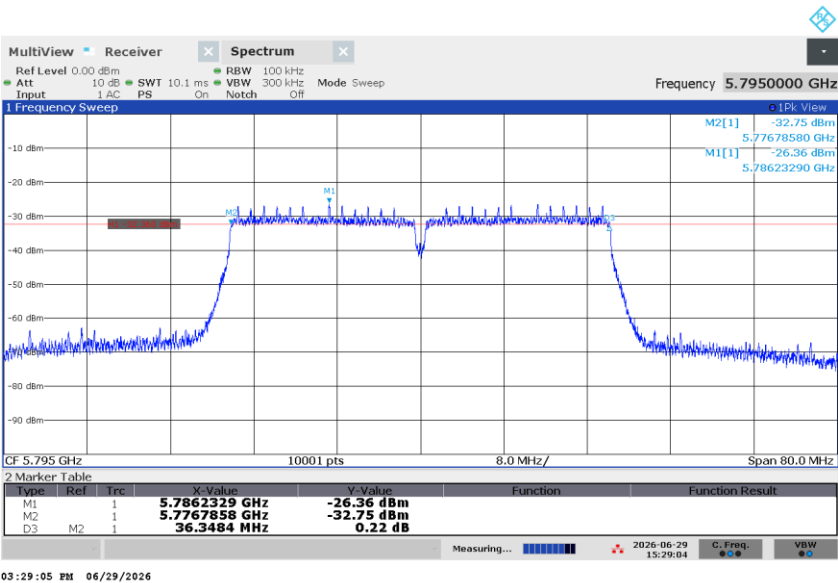


Table 19: 6dB Bandwidth, 802.11ac (VHT40)

Operating Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
5755	36.3404	>0.5
5795	36.3244	>0.5

Figure 22: 6dB Bandwidth, 802.11ac (VHT40), 5755MHz

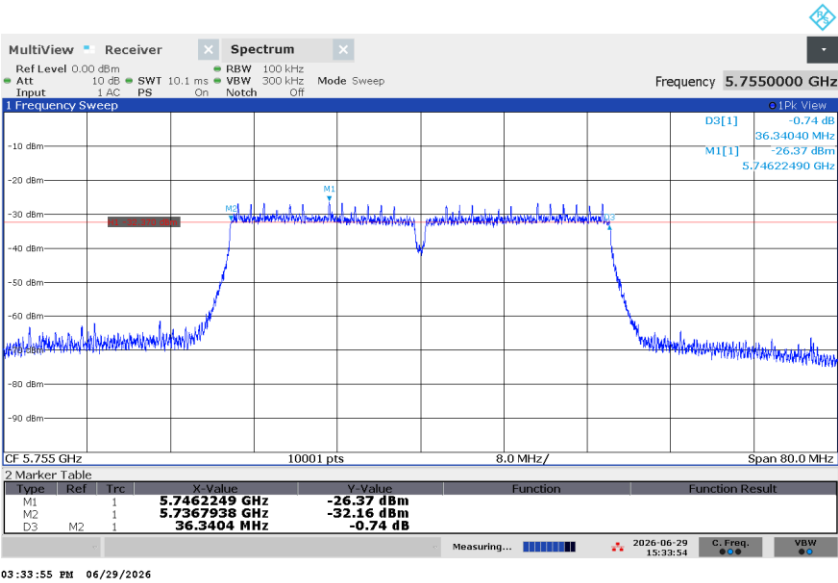


Figure 23: 6dB Bandwidth, 802.11ac (VHT40), 5795MHz

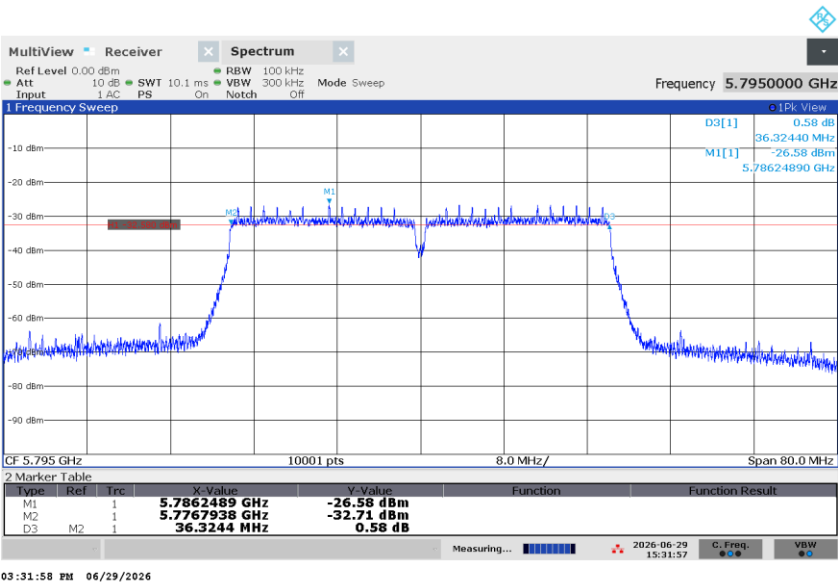
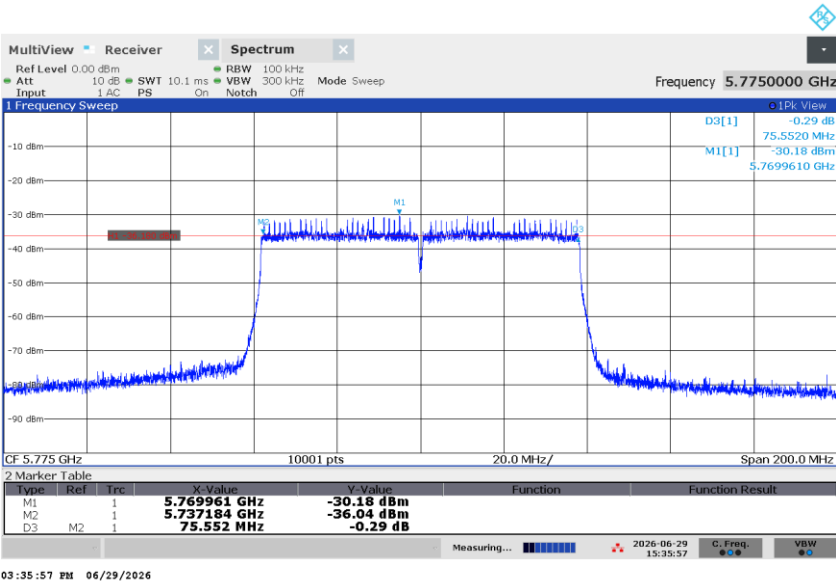


Table 20: 6dB Bandwidth, 802.11ac (VHT80)

Operating Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
5775	75.552	>0.5

Figure 24: 6dB Bandwidth, 802.11ac (VHT80), 5775MHz



Test Report No.: Prüfbericht-Nr.:	JP26BN8I 001	Page 42 of 105 Seite 42 von 105
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5.6 99% Bandwidth

RESULT: For. Ref.

Date of testing: 2026-06-19, 2026-06-29, 2026-06-30
2026-07-02

Ambient temperature: 23, 23, 28, 27°C
Relative humidity: 64, 59, 46, 49%
Atmospheric pressure: 1009, 1009, 1006, 1002hPa

RSS-Gen §6.7

The 99% occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSS.

Test procedure:
ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024 §6.9.3

The 99% bandwidth was measured at the antenna port with a spectrum analyzer using sample detector with single sweep.

The RBW was set in the range from 1% to 5% of the observed OBW, VBW was set to at least three times of RBW.

Markers were placed at the lowest and highest intersections of the trace by 99% OBW function to obtain the value of the 99% emission bandwidth.

Table 21: 99% Bandwidth, 802.11a

Operating Frequency [MHz]	99% Bandwidth [MHz]	Remarks (Emission Designator for ISED)
5745	17.8873	
5785	17.8240	
5825	17.9246	Widest OBW (17M9)

Figure 25: 99% Bandwidth, 802.11a, 5745MHz

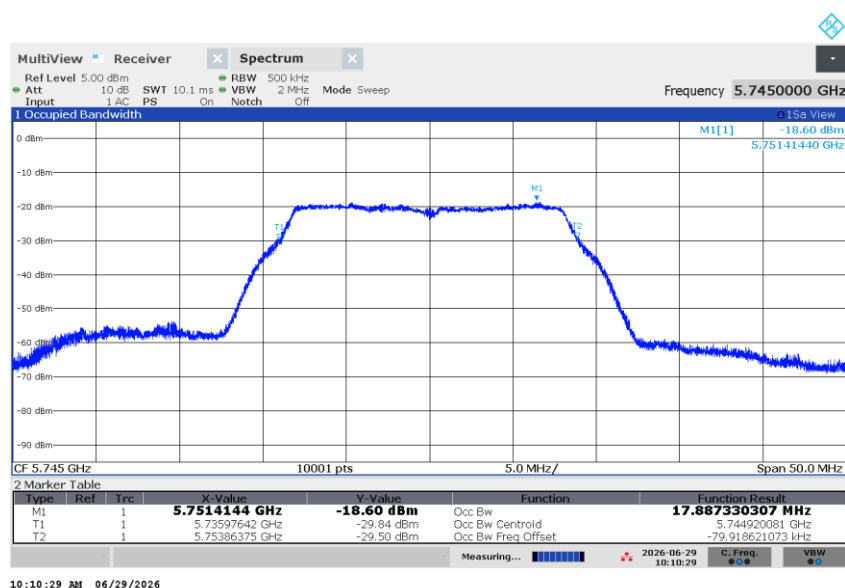


Figure 26: 99% Bandwidth, 802.11a, 5785MHz

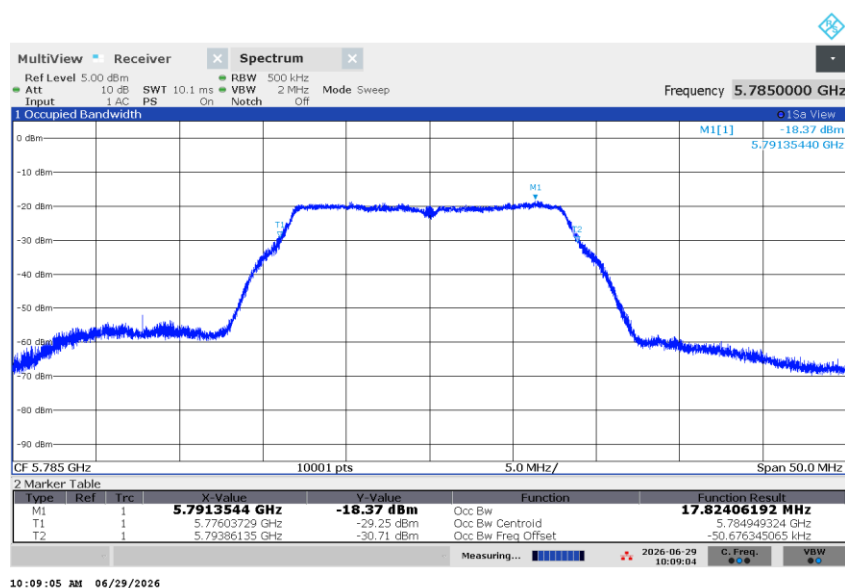
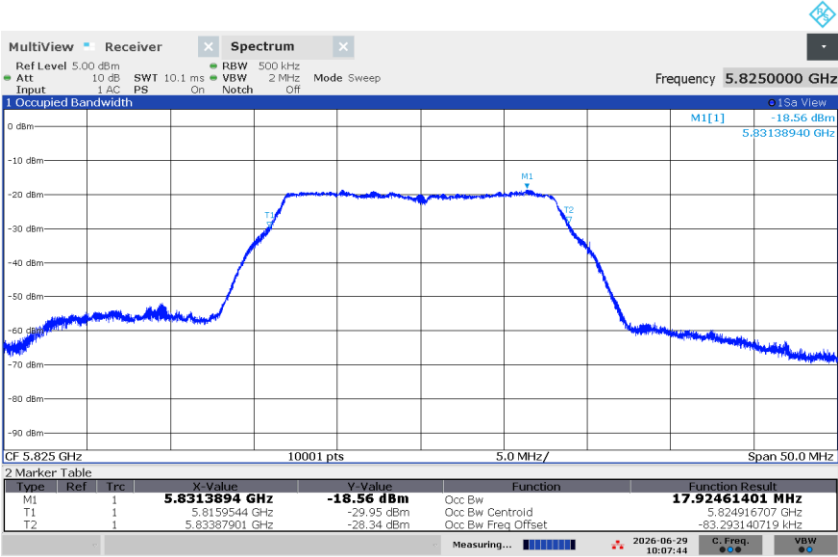


Figure 27: 99% Bandwidth, 802.11a, 5825MHz



10:07:44 AM 06/29/2026

Table 22: 99% Bandwidth, 802.11n (HT20)

Operating Frequency [MHz]	99% Bandwidth [MHz]	Remarks (Emission Designator for ISSED)
5745	18.8544	Widest OBW (18M9)
5785	18.8452	
5825	18.8368	

Figure 28: 99% Bandwidth, 802.11n (HT20), 5745MHz

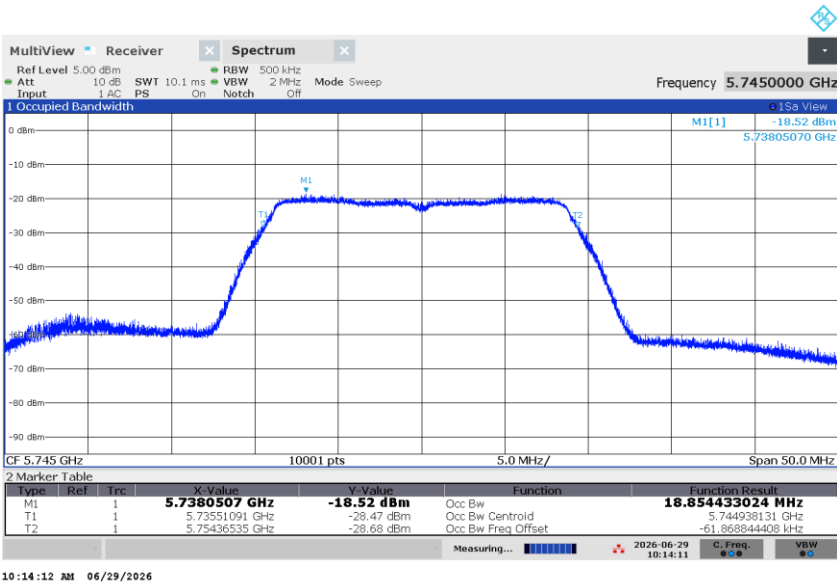


Figure 29: 99% Bandwidth, 802.11n (HT20), 5785MHz

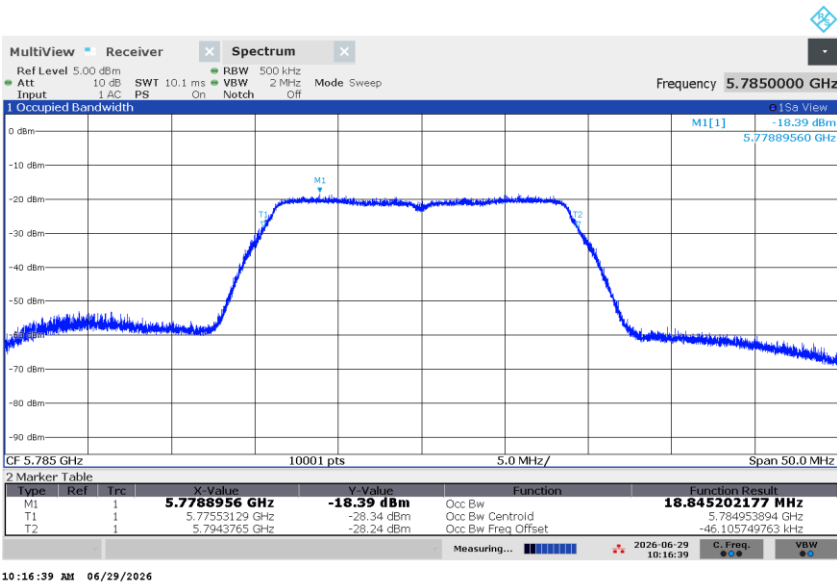
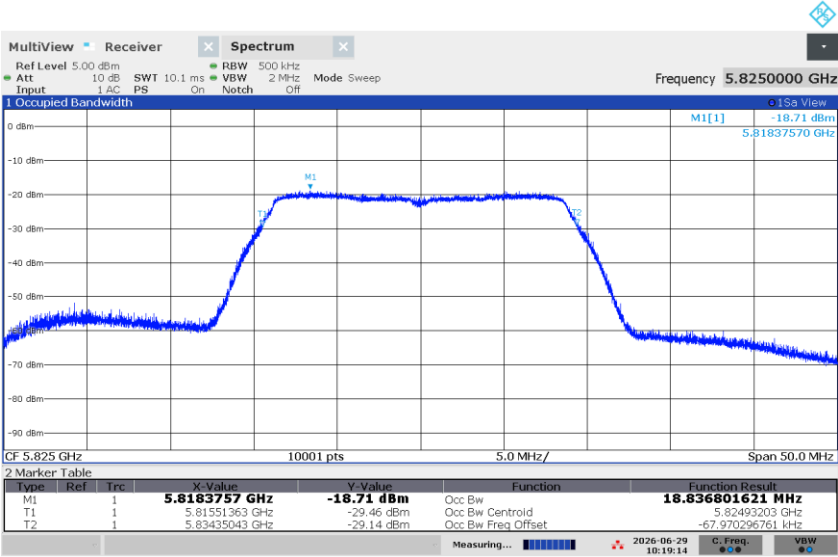


Figure 30: 99% Bandwidth, 802.11n (HT20), 5825MHz



10:19:14 AM 06/29/2026

Table 23: 99% Bandwidth, 802.11n (HT40)

Operating Frequency [MHz]	99% Bandwidth [MHz]	Remarks (Emission Designator for ISED)
5755	36.5414	Widest OBW (36M5)
5795	36.5178	

Figure 31: 99% Bandwidth, 802.11n (HT40), 5755MHz

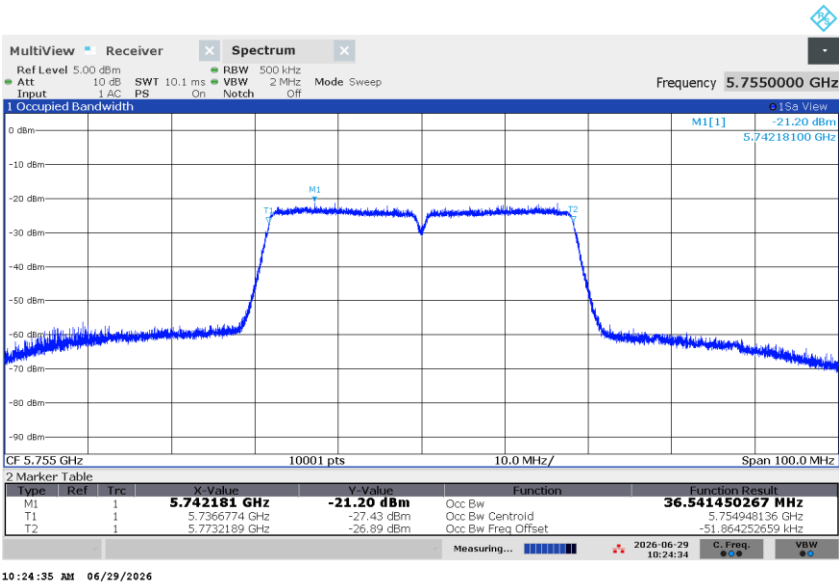
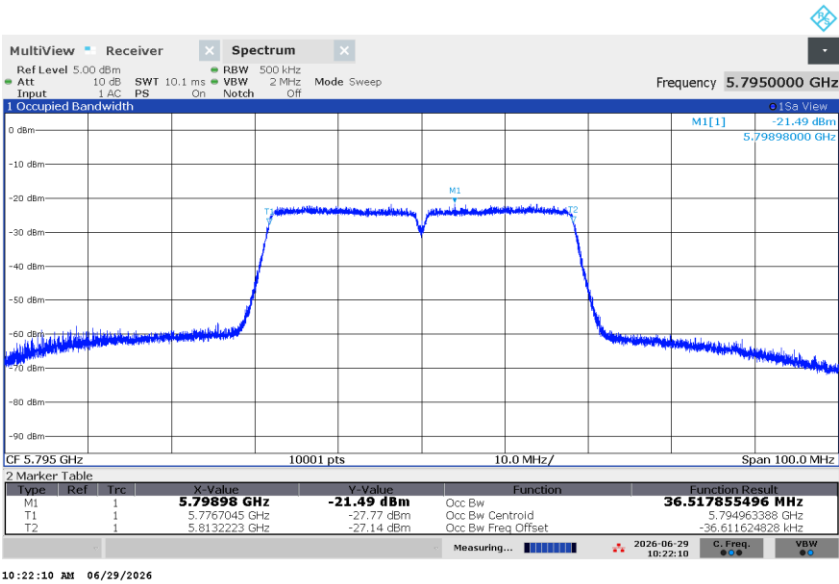


Figure 32: 99% Bandwidth, 802.11n (HT40), 5795MHz



Test Report No.: **JP26BN8I 001**
Prüfbericht-Nr.:

Page 48 of 105
Seite 48 von 105

Table 24: 99% Bandwidth, 802.11ac (VHT40)

Operating Frequency [MHz]	99% Bandwidth [MHz]	Remarks (Emission Designator for ISSED)
5755	36.5989	Widest OBW (36M6)
5795	36.5227	

Figure 33: 99% Bandwidth, 802.11ac (VHT40), 5755MHz

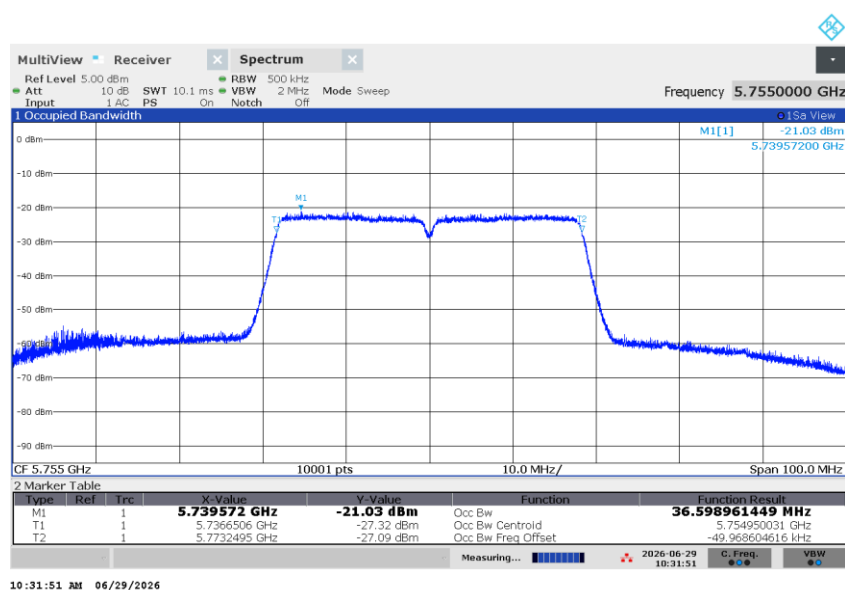


Figure 34: 99% Bandwidth, 802.11ac (VHT40), 5795MHz

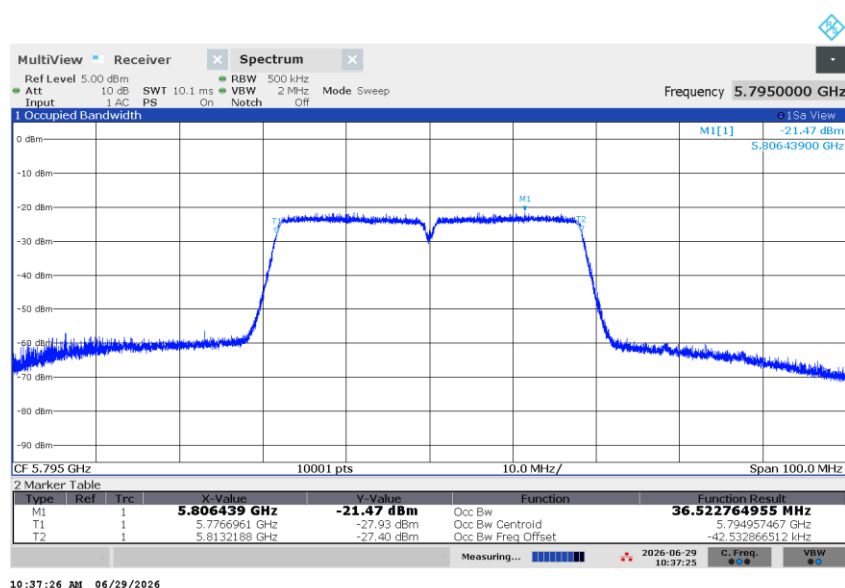
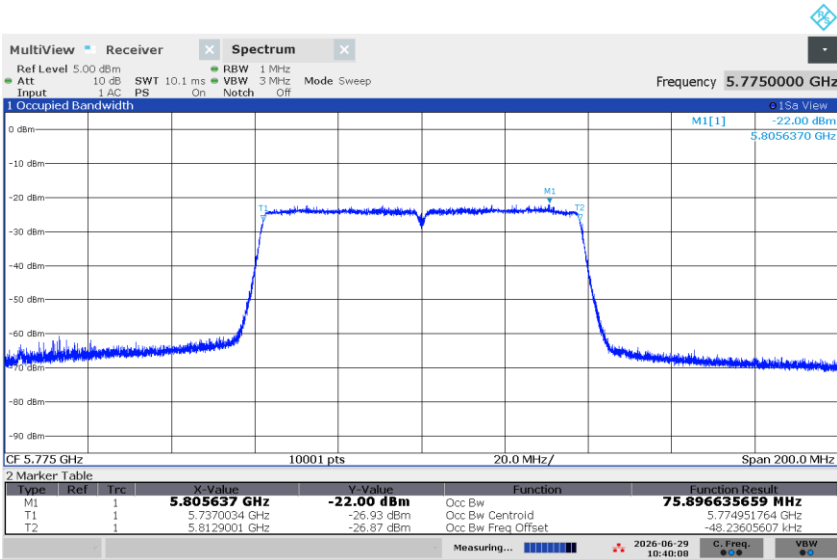


Table 25: 99% Bandwidth, 802.11ac (VHT80)

Operating Frequency [MHz]	99% Bandwidth [MHz]	Remarks (Emission Designator for ISED)
5775	75.8966	Widest OBW (75M9)

Figure 35: 99% Bandwidth, 802.11ac (VHT80), 5775MHz



10:40:08 AM 06/29/2026

5.7 Maximum Power Spectral Density

RESULT:

Pass

Date of testing: 2026-06-19, 2026-06-29, 2026-06-30
2026-07-02

Ambient temperature: 23, 23, 28, 27°C
Relative humidity: 64, 59, 46, 49%
Atmospheric pressure: 1009, 1009, 1006, 1002hPa

Requirements:

FCC §15.407 (a)(3)

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RSS-247 §7.3

Equipment operating in the band 5725-5850 shall comply with the following power limits:

b. the maximum output power spectral density shall not exceed 30 dBm/500kHz. When using transmitting antennas with a directional gain exceeding 6 dBi, the maximum conducted output power and the output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test procedure:

ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024 §12.6 SA-1

The peak power spectral density was measured at the antenna port with a spectrum analyzer using an RMS detector.

The readings of the measurements take into account the loss generated by all the involved cables.

Table 26: Maximum Power Spectral Density, 802.11a

Operating Frequency [MHz]	Result [dBm]	Limit [dBm]	Margin [dB]
5745	-4.50	30.00	34.50
5785	-4.11	30.00	34.11
5825	-4.12	30.00	34.12

Note:
Cable (including temporary RF cable) and attenuator loss has been compensated for the result.

Figure 36: Maximum Power Spectral Density, 802.11a, 5745MHz

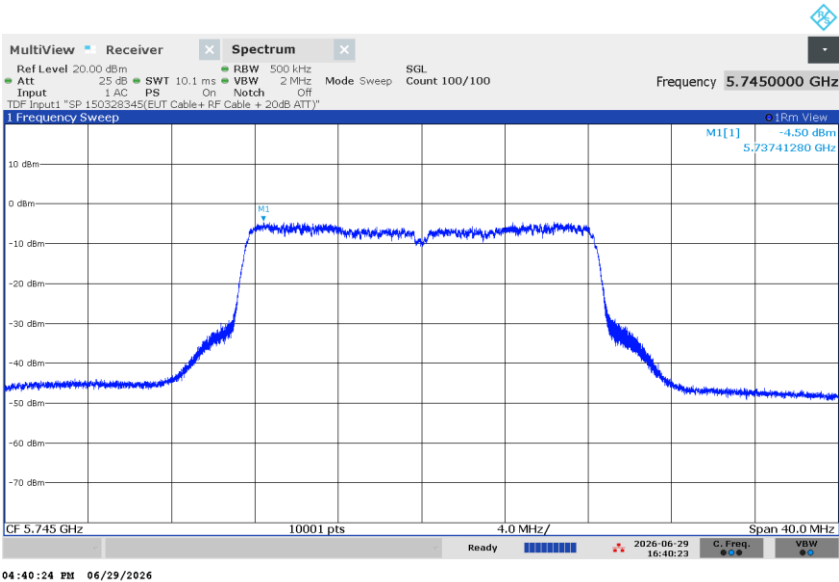


Figure 37: Maximum Power Spectral Density, 802.11a, 5785MHz

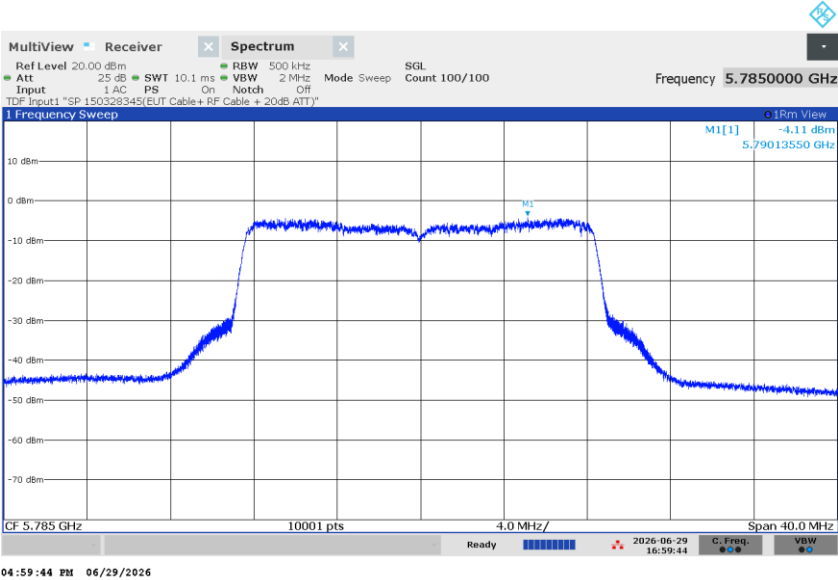


Figure 38: Maximum Power Spectral Density, 802.11a, 5825MHz

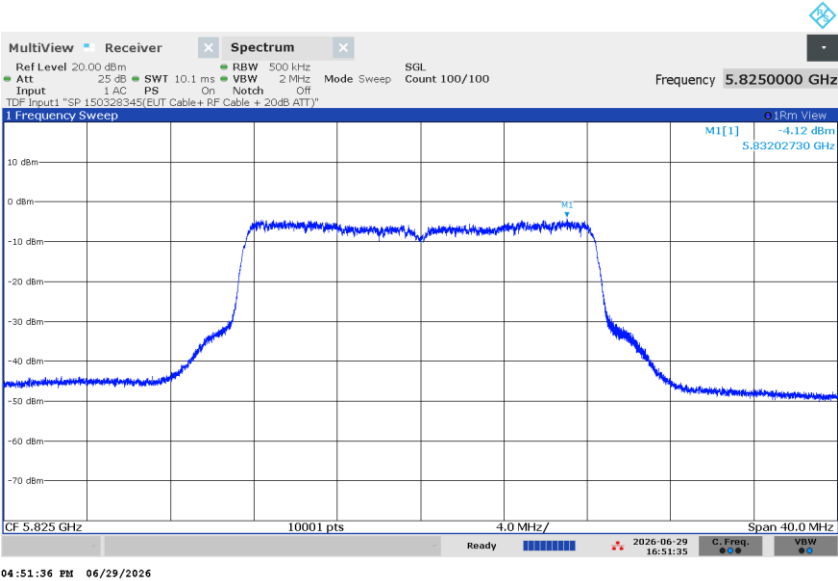


Table 27: Maximum Power Spectral Density, 802.11n (HT20)

Operating Frequency [MHz]	Result [dBm]	Limit [dBm]	Margin [dB]
5745	-5.56	30.00	35.56
5785	-5.45	30.00	35.45
5825	-5.36	30.00	35.36

Note:

Cable (including temporary RF cable) and attenuator loss has been compensated for the result.

Figure 39: Maximum Power Spectral Density, 802.11n (HT20), 5745MHz

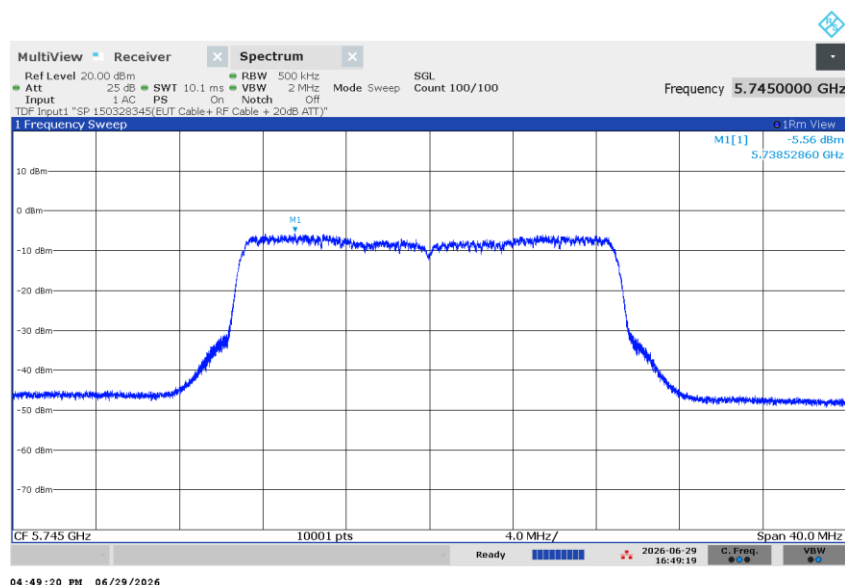


Figure 40: Maximum Power Spectral Density, 802.11n (HT20), 5785MHz

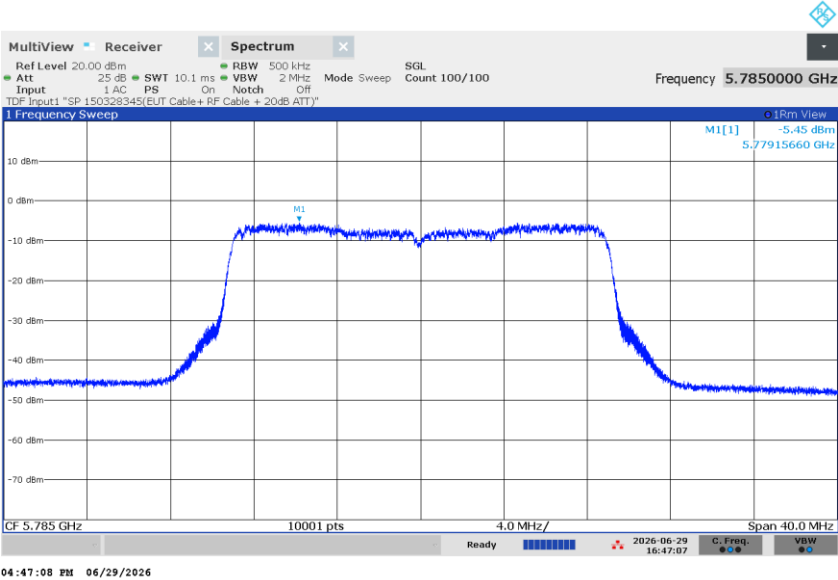


Figure 41: Maximum Power Spectral Density, 802.11n (HT20), 5825MHz

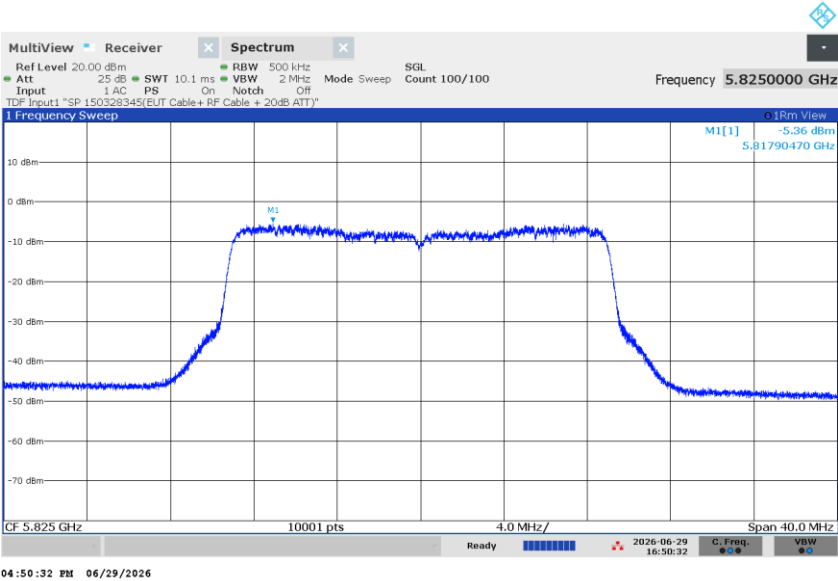


Table 28: Maximum Power Spectral Density, 802.11n (HT40)

Operating Frequency [MHz]	Result [dBm]	Limit [dBm]	Margin [dB]
5755	-8.47	30.00	38.47
5795	-8.41	30.00	38.41

Note:
Cable (including temporary RF cable) and attenuator loss has been compensated for the result.

Figure 42: Maximum Power Spectral Density, 802.11n (HT40), 5755MHz

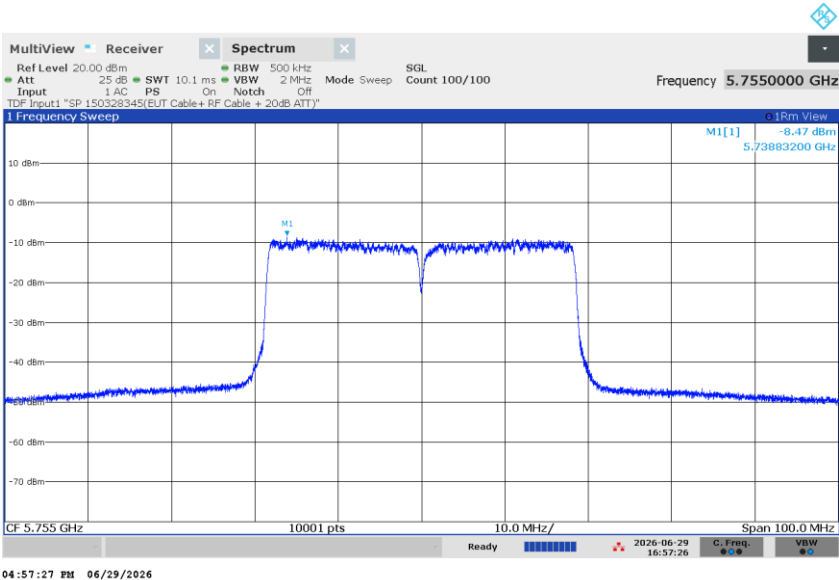


Figure 43: Maximum Power Spectral Density, 802.11n (HT40), 5795MHz

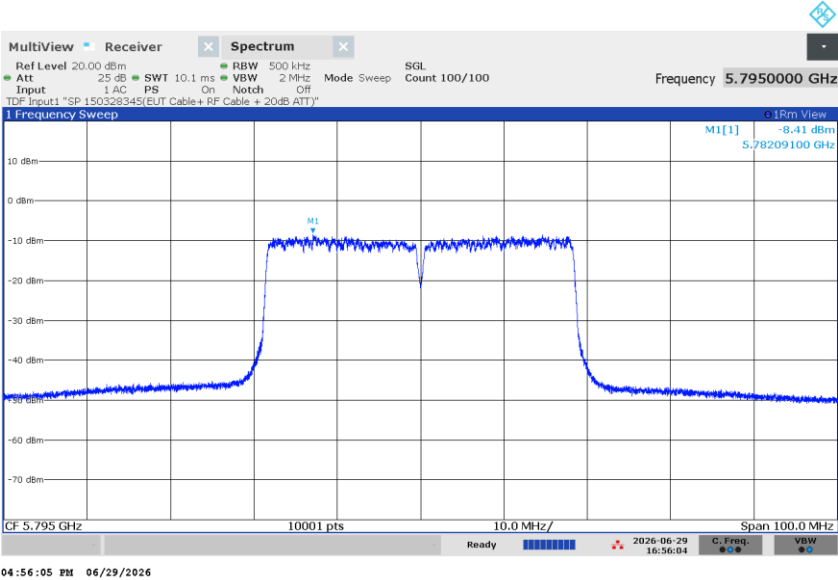


Table 29: Maximum Power Spectral Density, 802.11ac (VHT40)

Operating Frequency [MHz]	Result [dBm]	Limit [dBm]	Margin [dB]
5755	-8.70	30.00	38.70
5795	-8.58	30.00	38.58

Note:
Cable (including temporary RF cable) and attenuator loss has been compensated for the result.

Figure 44: Maximum Power Spectral Density, 802.11ac (VHT40), 5755MHz

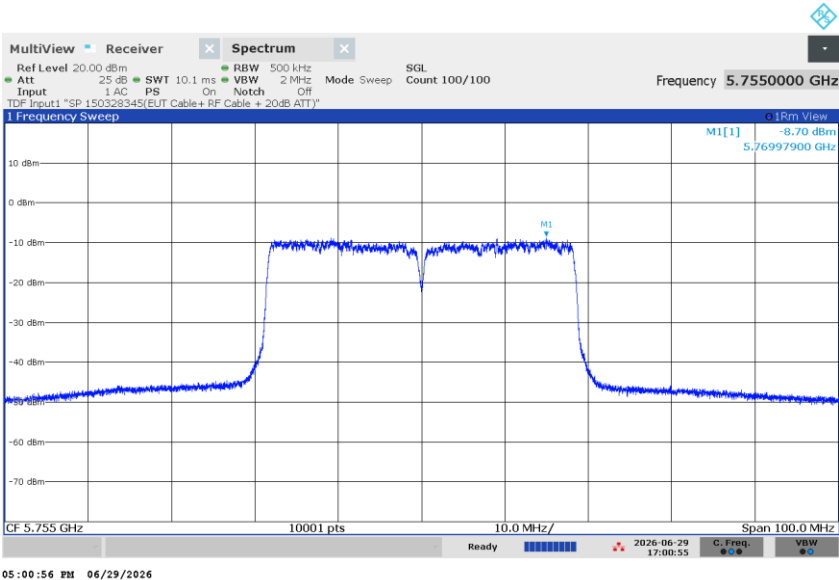


Figure 45: Maximum Power Spectral Density, 802.11ac (VHT40), 5795MHz

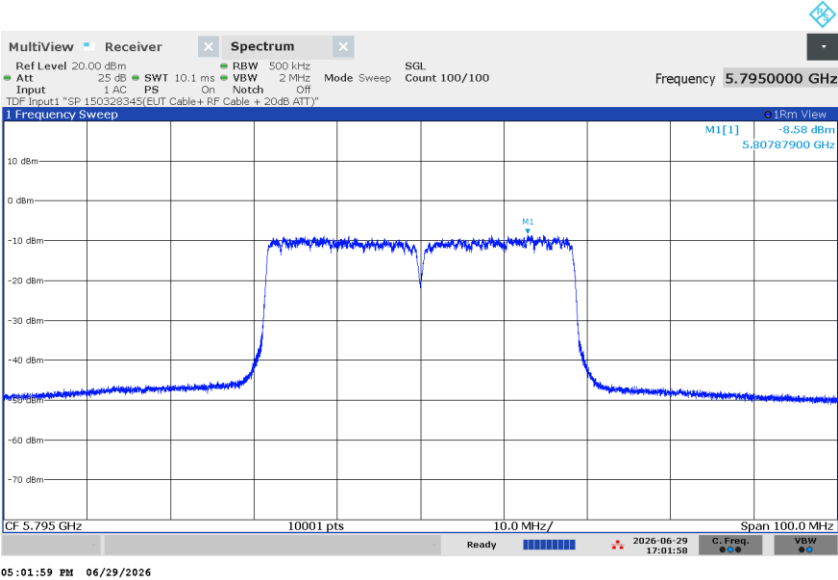
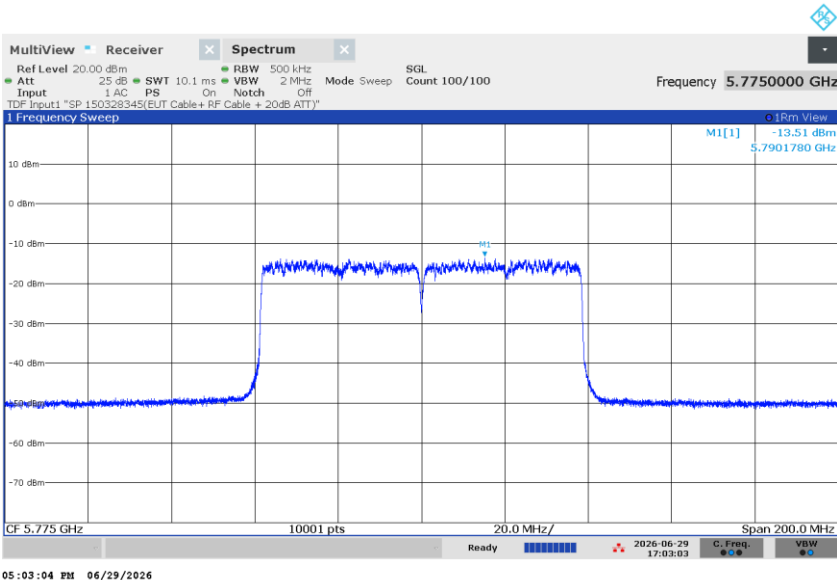


Table 30: Maximum Power Spectral Density, 802.11ac (VHT80)

Operating Frequency [MHz]	Result [dBm]	Limit [dBm]	Margin [dB]
5775	-13.51	30.00	43.51

Note:
Cable (including temporary RF cable) and attenuator loss has been compensated for the result.

Figure 46: Maximum Power Spectral Density, 802.11ac (VHT80), 5775MHz



Test Report No.: Prüfbericht-Nr.:	JP26BN8I 001	Page 60 of 105 Seite 60 von 105
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5.8 Duty Cycle

RESULT: For. Ref.

Date of testing: 2026-06-18, 2026-06-19, 2026-06-29
2026-06-30, 2026-07-02

Ambient temperature: 23, 23, 23, 28, 27°C
Relative humidity: 65, 64, 59, 46, 49%
Atmospheric pressure: 1007, 1009, 1009, 1006, 1002hPa

Requirements:
N/A, this test item was performed as reference.

Test procedure:
ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024 §7.5 and KDB
789033 D02.

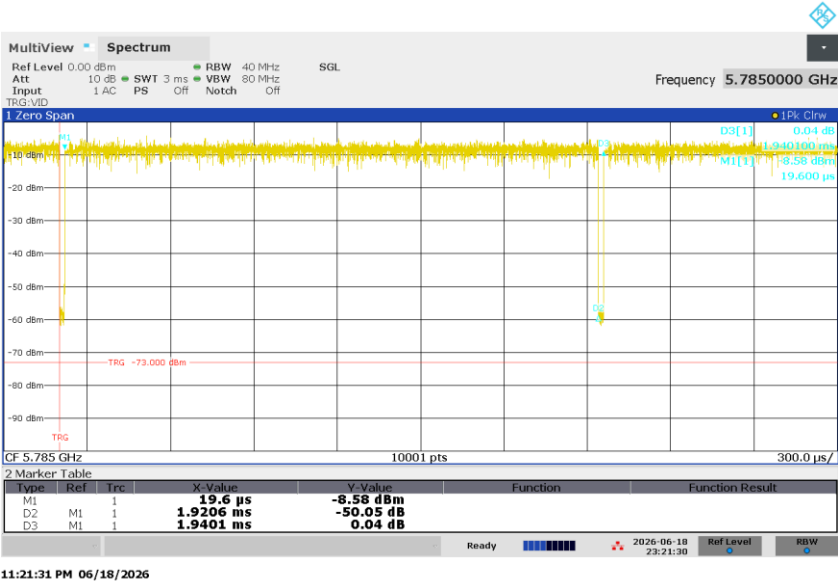
09:55:06 PM 06/18/2026

Figure 48: Duty Cycle, 802.11n (HT20), 5785MHz



10:24:41 PM 06/18/2026

Figure 49: Duty Cycle, 802.11n (HT40), 5785MHz



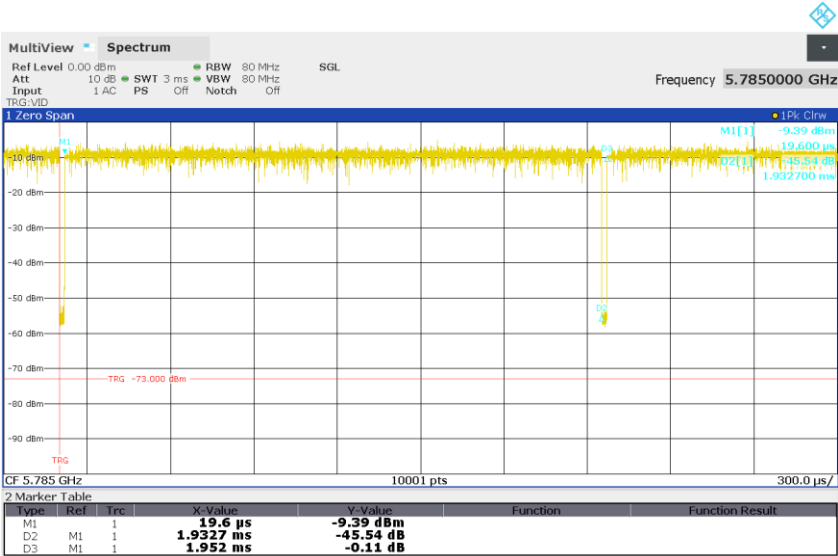
11:21:31 PM 06/18/2026

Figure 50: Duty Cycle, 802.11ac (VHT40), 5785MHz



11:52:21 PM 06/18/2026

Figure 51: Duty Cycle, 802.11ac (VHT80), 5785MHz



12:48:57 AM 06/19/2026