

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description: WLAN module
Applicant: HP Inc.
1501 Page Mill Road, Palo Alto CA 94304 USA
Manufacturer: HP Inc.
1501 Page Mill Road, Palo Alto CA 94304 USA
Brand Name: HP
Model No. HSC-I014RWL
Report Number: TERF2604001385E2
FCC ID B94-HSCI014RWL
Date of EUT Received: N/A, the test results are fully leveraged from test report number TERF2604001393E2, for more details please refer to section 2 in this report.
Date of Test: N/A, the test results are fully leveraged from test report number TERF2604001393E2, for more details please refer to section 2 in this report.
Issue Date: August 31, 2026

Approved By _____

Alex Hsieh

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 and the energy emitted by the sample EUT comply with FCC rule part §15.247.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2604001385E2	00	Original	August 31, 2026	Candice Li	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Equipment Under Test (EUT)

EUT Description	WLAN module
Brand Name	HP
Model No.	HSC-I014RWL
Power Supply	4 Vdc
Test Software (Name/Version)	Qualcomm Radio Control Toolkit/V4.0.192.1

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1.2 RF Specification

WLAN 2.4GHz

Mode	Frequency Range	Channels	Rated Power (dBm)		Modulation Technology
			Peak	Avg.	
802.11b	2412~2472	13	25.81	22.97	DSSS
802.11g	2412~2472	13	21.68	15.48	OFDM
802.11n_HT20	2412~2472	13	20.00	12.02	OFDM
802.11n_HT40	2422~2462	9	19.68	12.42	OFDM
802.11ac_VHT20	2412~2472	13	19.94	11.98	OFDM
802.11ac_VHT40	2422~2462	9	19.62	12.40	OFDM
802.11ax_HE20_SU	2412~2472	13	21.98	11.76	OFDM
802.11ax_HE40_SU	2422~2462	9	24.76	12.97	OFDM
802.11be_EHT20_SU	2412~2472	13	22.04	11.82	OFDM
802.11be_EHT40_SU	2422~2462	9	24.76	12.99	OFDM
802.11ax_HE20_RU	2412~2472	13	23.46	14.94	OFDMA
802.11ax_HE40_RU	2422~2462	9	24.69	12.89	OFDMA
802.11be_EHT20_RU	2412~2472	13	23.51	14.98	OFDMA
802.11be_EHT40_RU	2422~2462	9	24.78	12.96	OFDMA
Modulation type:	CCK,DQPSK, DBPSK for DSSS in 802.11b				
	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11g,11n				
	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac				
	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax				
	4096QAM, 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11be				
Data Rate:	802.11b: 1/2/5.5/11 Mbps				
	802.11g: 6/9/12/18/24/36/48/54 Mbps				
	802.11n_HT20:up to 144.4Mbps				
	802.11n_HT40:up to 300Mbps				
	802.11ac_VHT20:up to 173.4Mbps				
	802.11ac_VHT40:up to 400Mbps				
	802.11ax_HE20:up to 286.8Mbps				
	802.11ax_HE40:up to 573.6Mbps				
	802.11be_EHT20:up to 344.1Mbps				
	802.11be_EHT40:up to 688.2Mbps				

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1.3 Antenna Designation

Ant. Type	Supplier	Main/Aux	Model No.	Freq. (MHz)	Peak Gain(dBi)
PIFA	Vendor 1	Main	6036B0396101 (81EAB615.GBC)	2400~2483.5	2.61
		Aux	6036B0396201 (81EAB615.GBB)		2.66
PIFA	Vendor 2	Main	WA-P-LE-02-460	2400~2483.5	1.84
		Aux	WA-P-LE-02-459		1.88
PIFA	Vendor 1	Main	6036B0395901 (81EAB615.GBE)	2400~2483.5	2.65
		Aux	6036B0396001 (81EAB615.GBD)		2.58
PIFA	Vendor 2	Main	WA-P-LE-02-462	2400~2483.5	2.52
		Aux	WA-P-LE-02-461		2.79
PIFA	Vendor 1	Main	6036B0395701 (81EAB615.GBG)	2400~2483.5	2.14
		Aux	6036B0395801 (81EAB615.GBF)		2.51
PIFA	Vendor 2	Main	WA-P-LE-02-464	2400~2483.5	2.54
		Aux	WA-P-LE-02-463		2.66

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. The antenna information is provided by the applicant. The laboratory does not verify the accuracy of this information, and all test results related to antenna characteristics are based solely on the data supplied. Responsibility for the authenticity and accuracy of these specifications rests entirely with the party who provided the information.
3. The antenna complies with part 15.203 requirement and no consideration of replacement. Please see EUT photo for details.
4. The directional gain is calculated according to section F. 2). e). (ii) of FCC KDB 662911 D01.

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1.4 Operating Frequencies

2400~2483.5 MHz, Bandwidth: 20MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
1	2412 MHz	2	2417 MHz	3	2422 MHz	4	2427 MHz
5	2432 MHz	6	2437 MHz	7	2442 MHz	8	2447 MHz
9	2452 MHz	10	2457 MHz	11	2462 MHz	12	2467 MHz
13	2472 MHz	-	-	-	-	-	-
2400~2483.5 MHz, Bandwidth: 40MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
3	2422 MHz	4	2427 MHz	5	2432 MHz	6	2437 MHz
7	2442 MHz	8	2447 MHz	9	2452 MHz	10	2457 MHz
11	2462 MHz	-	-	-	-	-	-

1.5 EUT Availability and The Worst Test Modes

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.
4. Investigation has been done on all the possible configurations for searching the worst case.

Mode		Transmission Chain								Single Transmission Spatial		Multi Transmission Spatial	
V	802.11 b	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX
V	802.11 g	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX
V	802.11 n	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX
V	802.11 ac	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX
V	802.11 ax	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX
V	802.11 be	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX

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5. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 13	1,6,11,12,13	DSSS	1	2TX
802.11g	1 to 13	1,6,11,12,13	OFDM	6	2TX
802.11n_HT20	1 to 13	1,6,11,12,13	OFDM	MCS0	2TX
802.11n_HT40	3 to 11	3,6,9,10,11	OFDM	MCS0	2TX

CONDUCTED TEST						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	1 to 13	1,6,11,12,13	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54	MCS0	2TX
802.11ax_HE40	3 to 11	3,6,9,10,11	OFDMA	FULL RU 242/61,242/62	MCS0	2TX

CONDUCTED TEST						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11be_EHT20	1 to 13	1,6,11,12,13	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54 52+26MRU1,M RU3 106+26MRU1, MRU2	MCS0	2TX
802.11be_EHT40	3 to 11	3,6,9,10,11	OFDMA	FULL RU 242/61,242/62	MCS0	2TX

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TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 13	6	OFDM	6	2TX

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 13	1,6,11,12,13	CCK	1	2TX
802.11g	1 to 13	1,6,11,12,13	OFDM	6	2TX
802.11n20	1 to 13	1,6,11,12,13	OFDM	MCS0	2TX
802.11n40	3 to 11	3,6,9,10,11	OFDM	MCS0	2TX
802.11be20	1 to 13	1,6,11,12,13	OFDMA	MCS0	2TX
802.11be40	3 to 11	3,6,9,10,11	OFDMA	MCS0	2TX

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11be_EHT20	1 to 13	1,6,11,12,13	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54 52+26MRU1,M RU3 106+26MRU1, MRU2	MCS0	2TX
802.11be_EHT40	3 to 11	3,6,9,10,11	OFDMA	FULL RU 242/61,242/62 52+26MRU1,M RU6 106+26MRU1, MRU4	MCS0	2TX

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2 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result	Note
§15.207(a)	AC Power Line Conducted Emission	Compliant	
§15.247(b) (3)	Peak Output Power	Compliant	
§15.247(a)(2)	Emission Bandwidth	Compliant	
§15.205 §15.209 §15.247(d)	Out of Band Emission	Compliant	
§15.205 §15.209 §15.247(d)	Unwanted Emission	Compliant	
§15.247(e)	Power Spectral Density	Compliant	
§15.203	Antenna Requirement	Compliant	

Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report TERF2604001393E2.

2.1 Test Methodology of Applied Standards

1. ANSI C63.10:2020
2. FCC Part 15, Subpart C §15.247
3. FCC KDB 558074 D01 15.247 Meas Guidance v05r02
4. FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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2.2 Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.61 dB
Output Power measurement	+/- 0.97 dB
Emission Bandwidth	+/- 1.38 Hz
Conducted emission measurement	+/- 0.77 dB
Peak Power Density	+/- 0.61 dB
Temperature	+/- 0.60 °C
Humidity	+/- 3.00 %
DC / AC Power Source	+/- 1.00 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.41 dB	1GHz - 18GHz
	+/- 3.89 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.41 dB	1GHz - 18GHz
	+/- 3.89 dB	18GHz - 40GHz
Radiated Spurious Emission	+/- 2.00 dB	33GHz - 50GHz
	+/- 1.59 dB	50GHz - 60GHz
	+/- 1.71 dB	60GHz - 90GHz
	+/- 1.64 dB	90GHz - 140GHz
	+/- 3.84 dB	140GHz - 220GHz

Note

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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2.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number / Registration Number	IC CAB identifier / Company Number
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803	SAC 1 / SAC 2 / SAC 3 Conduction 1 / Conducted 1 Conducted 2 / Conducted 3 Conducted 4 / Conducted 5 Conducted 6 / FAC 1	TW0027 / 891563	TW3702 / 4620A
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.2, Keji 1st Rd, Guishan District, Taoyuan City, Taiwan 333	SAC C / SAC D / SAC G Conduction C/ Conducted A Conducted B / Conducted C Conducted D / Conducted E Conducted F / Conducted G FAC A	TW0028 / 200037	TW3702 / 4620E

Measurement	Test Site Name	Test Engineer	EUT S/N	Test Environment	Test Date
Conducted	Conducted E	Henry Chiang	P84844-001	22.6~23.4°C / 74~68%	2026/05/05 ~ 2026/06/22
Radiated	SAC C	Alex Li	P84844-001	24.5~25.8°C / 55~56%	2026/05/19 ~ 2026/06/16
Conduction	Conduction C	Alex Li	P84844-001	21.3°C / 62%	2026/07/04

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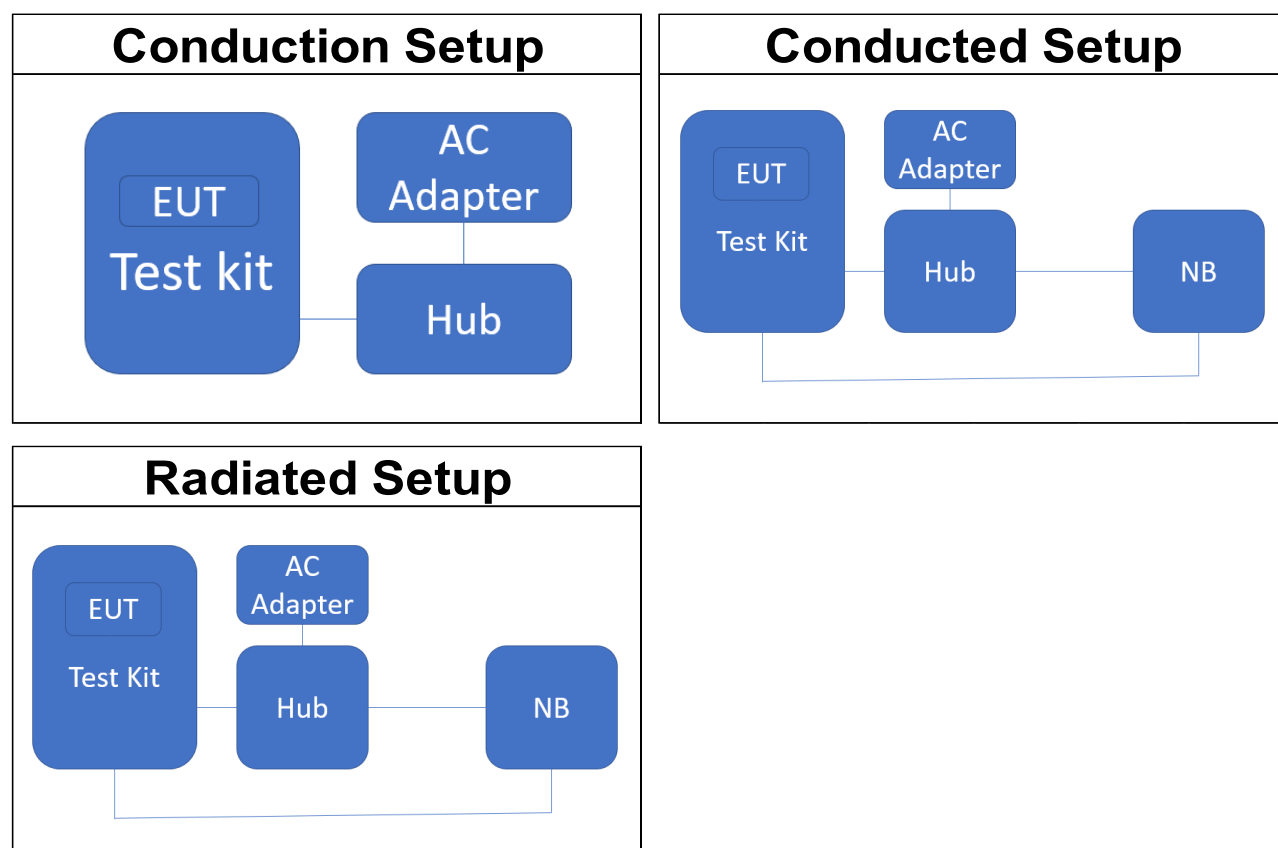
3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

3.2 Diagrams



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3.3 List

3.3.1 Conduction Setup

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Adapter	Chicony Power Technology Co., Ltd.	TPN-CA25	N/A	N/A	N/A
Hub	HP	TPC-I049-D	N/A	N/A	N/A
Test Kit	HP	HSC-I014RWL	N/A	N/A	N/A

3.3.2 Conducted Setup

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Adapter	Delta Electronics, Inc.	TPN-DA25	N/A	N/A	N/A
Hub	HP	TPC-I049-D	N/A	N/A	N/A
Test kit	HP	HSC-I014RWL	N/A	N/A	N/A
Notebook	ASUS	ME407KA	N/A	N/A	N/A

3.3.3 Radiated Setup

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	Lenovo	L440	P0000367	N/A	N/A
USB Cable	SHANG LIAN TECHNOLOGY CO.,LTD	VPC-70	N/A	N/A	N/A
AC Adapter	Chicony Power Technology Co., Ltd.	TPN-CA25	N/A	N/A	N/A
Hub	HP	TPC-I049-D	N/A	N/A	N/A
Test Kit	HP	HSC-I014RWL	N/A	N/A	N/A

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4 TEST INSTRUMENT

4.1 Conducted Measurement

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Marvelous	MVE2213-10	RF05	11/13/2025	11/12/2026
DC Block	PASTERNAK	PE8210	RF34	11/13/2025	11/12/2026
Power Meter	Anritsu	ML2496A	1326001	07/29/2025	07/28/2026
Power Sensor	Anritsu	MA2411B	1315048	07/29/2025	07/28/2026
Power Sensor	Anritsu	MA2411B	1315049	07/29/2025	07/28/2026
Spectrum Analyzer	KEYSIGHT	N9010B	MY63440390	02/02/2026	02/01/2027
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

4.2 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber C	N/A	03/02/2026	03/01/2027
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/16/2025	12/15/2026
Attenuator	Woken	WATT-218FS-10	RF17	11/13/2025	11/12/2026
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/14/2025	11/13/2026
Coaxial Cable	EMCI+Huber Suhner	RG 214/U+EMC104-SM-SM-6000+EMC105-SM-SM-12000+15	W13.01+150813+2310002+15	11/13/2025	11/12/2026
EMI Test Receiver	R&S	ESU 40	100363	04/29/2026	04/28/2027
Horn Antenna	RF SPIN	DRH0844	KV2E12A0844	01/23/2026	01/22/2027
Pre-Amplifier	EMC Instruments	EMC118A45SE	980789	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC184045SEE	980881	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC330	980091	11/13/2025	11/12/2026
Spectrum Analyzer	KEYSIGHT	N9010B	MY63440390	02/02/2026	02/01/2027
Test Software	audix	e3	E3 210616 SGS Ver.9 (C)	N.C.R	N.C.R

4.3 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2026	03/26/2027
EMI Test Receiver	R&S	ESCI	101342	04/16/2026	04/15/2027
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	974	06/29/2026	06/28/2027
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2026	03/26/2027

NOTE: N.C.R refers to Not Calibrated Required.

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5 REGULATORY REQUIREMENTS

5.1 Emission Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

5.2 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

5.3 Maximum Output Power

FCC

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

5.4 Maximum Power Spectral Density

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

The power spectral density shall be determined using the same method as is used to determine the maximum conducted output power.

5.5 Out of Band Emission

For emissions in non-restricted frequency bands, in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS aver-aging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

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5.6 Unwanted Emissions

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the applicable radiated emission limits as defined in the general emission limit tables. Moreover, for an intentional radiator operating below 10 GHz, the frequency range of measurements shall extend up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	2400/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note: The lower limit shall apply at the transition frequencies.

5.7 AC Power Line Conducted Emission

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- The lower limit shall apply at the transition frequencies
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

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5.8 Antenna Requirement

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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6 TEST CONFIGURATION

6.1 Emission Bandwidth



1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. 6dB BW measurements
The testing is performed in accordance with the applicable regulatory measurement procedure.
Set the spectrum analyzer as
RBW= 1% to 5% of the OBW but not less than 100 kHz,
VBW $\geq 3 \times$ RBW,
Span= 2 to 5 times of the OBW,
Sweep=Auto, Detector = Peak, and Trace mode = Max Hold.
Use the X dB bandwidth mode function of the spectrum analyzer and set to 6dB.
Repeat above procedures until all test default channel is completed.
4. 99% BW measurements
The testing is performed in accordance with the applicable regulatory measurement procedure.
Set the spectrum analyzer as
RBW= 1 % to 5% of 99% without going below 10kHz,
VBW $\geq 3 \times$ RBW,
Span= 1.5 to 5 times of the OBW,
Sweep=Auto, Detector = Peak, and Trace mode = Max Hold.
Use the 99% power bandwidth function of the spectrum analyzer.
Repeat above procedures until all test default channel is completed.

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6.2 Maximum Output Power

6.2.1 Duty Cycle



Place the EUT on the table and set it in transmitting mode.

Set the spectrum analyzer as

Center Frequency = fundamental frequency

Span = Zero,

RBW = 8 MHz,

VBW = 8 MHz,

Detector = Peak,

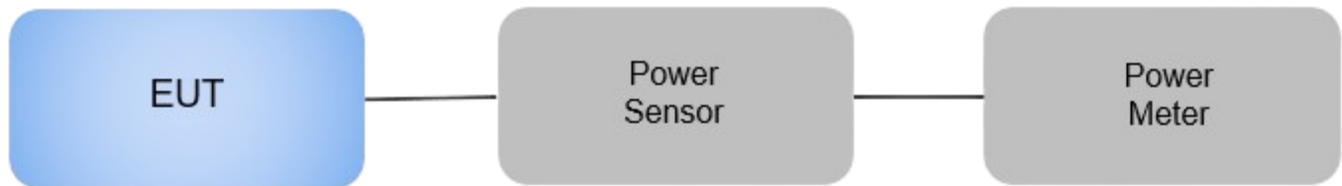
Allow trace to fully stabilize.

Use the delta marker function to determine the ON and OFF times.

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6.2.2 Maximum Output Power



1. The testing is performed in accordance with the applicable output power measurement procedure.
2. Place the EUT on the table and set it to transmit mode.
3. Remove the antenna from the EUT and connect a low-loss RF cable from the antenna port to the power meter.
4. The power meter is used as auxiliary test equipment to conduct the output power measurement. Record the maximum reading as observed from the spectrum analyzer or power meter.

When testing for multiple output ports in simultaneous transmission mode, the measured values of each individual output port are tested separately and then linearly summed.

The directional gain is calculated using the formula

$$DirectionalGain = 10 \times \log_{10} \left(\frac{(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_n/20})^2}{N_{ant}} \right)$$

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

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6.3 Maximum Power Spectral Density



The test is conducted in accordance with the applicable regulatory measurement procedure.

Set spectrum analyzer center frequency to DTS channel center frequency.

Set the span > 1.5 times the DTS channel bandwidth.

Set the RBW = 3 kHz and VBW = 10 kHz.

Detector = Peak

Sweep time = Auto Couple.

Trace mode = Max Hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

When testing for multiple output ports in simultaneous transmission mode, the measured values of each individual output port are tested separately and then linearly summed.

The directional gain is calculated using the formula

$$DirectionalGain = 10 \times \log_{10} \left(\frac{(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_n/20})^2}{N_{ant}} \right)$$

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6.4 Out of Band Emission



6.4.1 Reference Level of Emission Limit

The testing is performed in accordance with the applicable measurement procedure.

Set the analyzer center frequency to the DTS channel center frequency.

Set the span to 1.5 times the DTS channel bandwidth.

Set RBW = 100 kHz and VBW = 300 kHz.

Detector = peak

Sweep time = Auto Couple.

Trace mode = Max Hold.

Allow the trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

6.4.2 Conducted Band Edge

1. The testing is performed in accordance with the applicable measurement procedure.
2. Connect the antenna port of the EUT to the spectrum analyzer.
3. Remove the antenna from the EUT and connect a low-loss RF cable from the antenna port to the spectrum analyzer.
4. Set the start frequency and stop frequency of the spectrum analyzer to encompass the spectrum to be examined.
5. Configure the spectrum analyzer as follows:
 - RBW = 100 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Sweep = Auto
 - Mark the highest reading of the emission as the reference level.
 - Set the display limit as: reference level marker reading -20 dBm.
 - Mark the highest emissions observed outside of the 2400 MHz to 2483.5 MHz band.
6. Repeat the above procedure for each default test channel (low, middle, and high).

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6.4.3 Conducted Spurious Emission

1. The testing is performed in accordance with the applicable measurement procedure.
2. Connect the antenna port of the EUT to the spectrum analyzer.
3. Configure the spectrum analyzer as follows:
 - RBW = 100 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Sweep = Auto.
 - Allow the trace to fully stabilize.
 - Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental emission bandwidth (EBW).
4. Repeat the above procedures until all default test channels (low, middle, and high) have been measured.

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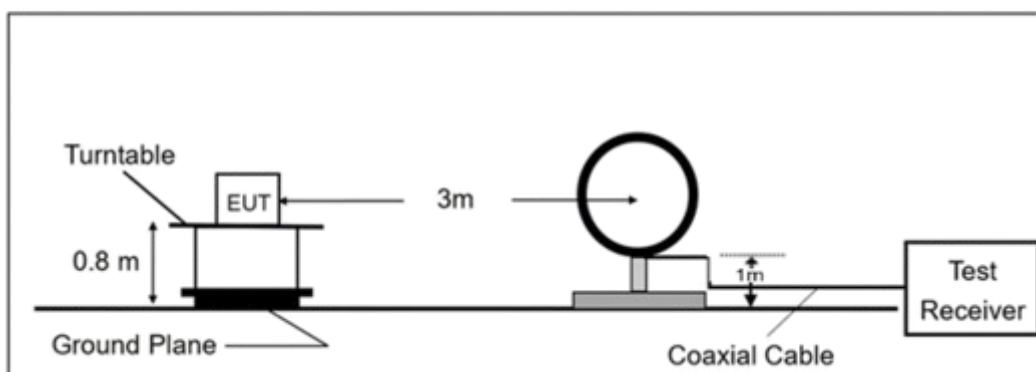
6.5 Unwanted Emissions

For Measurements From 9 kHz To 30 MHz

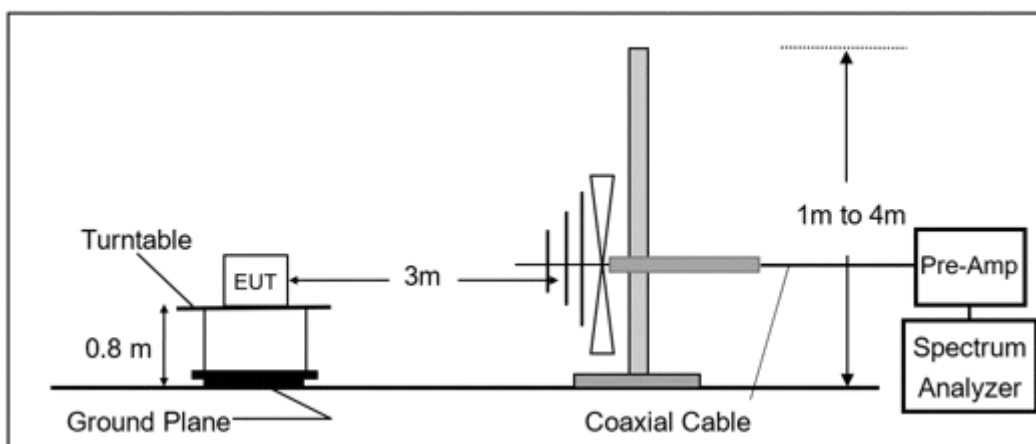
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

Radiated Emission Test Set-Up, Frequency Below 30MHz.



Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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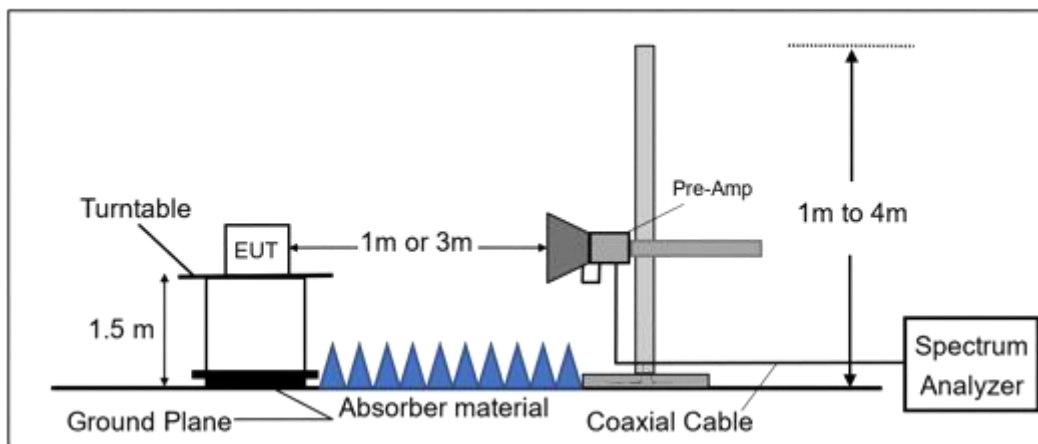
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Radiated Emission Test Set-Up, Frequency Above 1GHz.



1. The testing was performed in accordance with the applicable radiated emission measurement procedure.
2. The EUT was placed on a turntable at a height of 0.8 m for frequencies below 1 GHz and 1.5 m for frequencies above 1 GHz.
3. The turntable was rotated 360 degrees to determine the position of the maximum emission level.
4. The EUT was positioned 3 meters away from the receiving antenna, which was varied in height from 1 m to 4 m to locate the highest emissions.
5. For measurements below 30MHz, set the spectrum analyzer as
 - ☒ For Peak measurement
 - RBW=10 kHz
 - VBW=30 kHz
 - Detector = peak
 - Trace mode = max-hold
 - ☒ For Quasi-peak measurement in receiver mode
 - RBW=10 kHz
 - Detector = Quasi-Peak
 - Peak detection is used unless otherwise noted as quasi-peak.
6. For measurements in 30MHz to 1GHz, set the spectrum analyzer as
 - ☒ For Peak measurement
 - RBW=100 kHz
 - VBW=300 kHz
 - Detector = peak
 - Trace mode = max-hold
 - ☒ For Quasi-peak measurement in receiver mode
 - RBW=120 kHz
 - Detector = Quasi-Peak
 - Peak detection is used unless otherwise noted as quasi-peak.

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7. For measurements above 1GHz, set the spectrum analyzer as
- ☒ For Peak measurement:
 - RBW=1 MHz
 - VBW=3 MHz
 - Detector = peak
 - Trace mode = max-hold
 - ☒ For Average measurement:
 - ☒ Duty cycle $\geq 98\%$:
 - RBW=1 MHz
 - VBW=3 MHz
 - Detector = Power averaging (rms)
 - trace average was performed over at least 100 traces
 - ☒ Duty cycle $< 98\%$
 - RBW=1 MHz
 - VBW $\geq 1/T$
 - Detector = peak
 - Trace mode = max-hold
 - ☐ Duty cycle $< 98\%$
 - RBW=1 MHz
 - VBW ≥ 3 MHz
 - Detector = Power averaging (rms)
 - trace average was performed over at least 100 traces
 - add Duty cycle factor(dB)
 - ☐ Duty cycle factor (DCF)
 - the average value of pulsed emissions with duty cycle correction factor $20 \log (T_{on}/100ms)$ from the peak measurement
8. When measuring radiated emissions above 1 GHz, the receiving antenna was maintained within the "cone of radiation" and pointed at the emission source in both azimuth and elevation, with polarization oriented for maximum response, ensuring it remained within the 3 dB illumination beamwidth of the measurement antenna.
9. The six highest emissions were fully maximized using the above procedures to ensure EUT compliance.
10. Each emission was further maximized by changing the receiving antenna polarization between horizontal and vertical.
11. Repeat the above procedures until all default test channels (low, middle, and high) are measured.

Note: Emissions from 9 kHz to 30 MHz were pre-scanned and found to be at least 20 dB below the applicable limits, and are therefore not reported.

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6.5.1 Field Strength Calculation

The field strength is calculated by adding the antenna factor and cable loss, then subtracting the amplifier gain and any applicable duty cycle correction factor from the measured reading. The basic equation and an example calculation are as follows:

$$FS = RA + AF + CL - AG$$

Where:

FS = Field Strength (dB μ V/m)
RA = Reading Amplitude (dB μ V)
AF = Antenna Factor (dB/m)
CL = Cable Loss (dB)
AG = Amplifier Gain (dB)

The emission limit is expressed in dB μ V/m, which corresponds to the logarithmic conversion of $20 \times \log_{10} (\mu\text{V/m})$.

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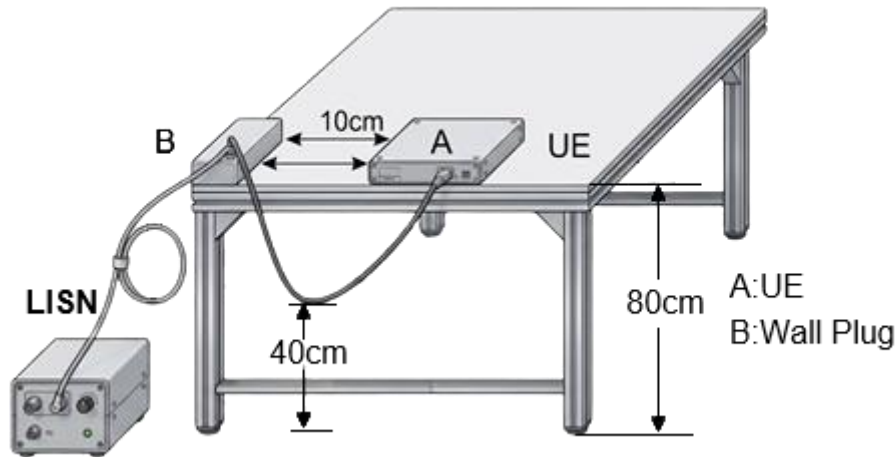
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6.6 AC Power Line Conducted Emission



1. The conducted emission tests were performed at the designated test site using a setup in accordance with ANSI_C63.10
2. The EUT was placed on a non-conductive table that is 0.8 meters above the ground plane. Conducted emissions were measured in the frequency range from 0.15 MHz to 30 MHz using CISPR Quasi-Peak and Average detector modes. The two LISNs provided 50 μ H / 50 ohm coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
3. The AC/DC power adaptor of the EUT was connected to the LISN. The EUT was positioned flush with the rear edge of the table, with a minimum 0.4-meter distance from the shielding wall.
4. The LISNs were connected to the power source and configured according to the test requirements.
5. The maximum emission levels were investigated for each mode of operation. The six highest emissions were further maximized to ensure compliance.
6. The above procedures were repeated for all power supply configurations of the EUT.

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7 TEST RESULTS

7.1 Emission Bandwidth

802.11b_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	12.837	7694	≥ 500	PASS
2437	12.480	8046	≥ 500	PASS
2462	12.650	8085	≥ 500	PASS
2467	12.834	8137	≥ 500	PASS
2472	12.701	8027	≥ 500	PASS

802.11b_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	12.601	7687	≥ 500	PASS
2437	12.481	8084	≥ 500	PASS
2462	12.690	7707	≥ 500	PASS
2467	12.964	8145	≥ 500	PASS
2472	12.869	8091	≥ 500	PASS

802.11g_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	16.911	16370	≥ 500	PASS
2437	16.994	16390	≥ 500	PASS
2462	16.962	16410	≥ 500	PASS
2467	16.930	16440	≥ 500	PASS
2472	16.669	16350	≥ 500	PASS

802.11g_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	16.762	16450	≥ 500	PASS
2437	16.803	16480	≥ 500	PASS
2462	16.778	16500	≥ 500	PASS
2467	16.801	16510	≥ 500	PASS
2472	16.504	16380	≥ 500	PASS

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802.11n_HT20_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	18.047	17670	≥ 500	PASS
2437	18.086	17660	≥ 500	PASS
2462	18.061	17680	≥ 500	PASS
2467	18.059	17660	≥ 500	PASS
2472	17.640	17480	≥ 500	PASS

802.11n_HT20_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	17.991	17620	≥ 500	PASS
2437	17.991	17710	≥ 500	PASS
2462	17.953	17690	≥ 500	PASS
2467	17.985	17720	≥ 500	PASS
2472	17.631	17510	≥ 500	PASS

802.11n_HT40_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2422	36.535	36420	≥ 500	PASS
2437	36.804	36420	≥ 500	PASS
2452	36.670	36350	≥ 500	PASS
2457	36.682	36360	≥ 500	PASS
2462	36.379	36270	≥ 500	PASS

802.11n_HT40_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2422	36.483	36410	≥ 500	PASS
2437	36.566	36540	≥ 500	PASS
2452	36.393	36270	≥ 500	PASS
2457	36.425	36410	≥ 500	PASS
2462	36.329	36530	≥ 500	PASS

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802.11be_EHT20_SU_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	19.060	18990	≥ 500	PASS
2437	19.057	19060	≥ 500	PASS
2462	19.041	19040	≥ 500	PASS
2467	19.034	19050	≥ 500	PASS
2472	18.807	18900	≥ 500	PASS

802.11be_EHT20_SU_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	19.090	19090	≥ 500	PASS
2437	19.086	19060	≥ 500	PASS
2462	19.069	19090	≥ 500	PASS
2467	19.132	19060	≥ 500	PASS
2472	18.784	18880	≥ 500	PASS

802.11be_EHT40_SU_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2422	37.843	38060	≥ 500	PASS
2437	37.986	38140	≥ 500	PASS
2452	37.907	38070	≥ 500	PASS
2457	37.926	38060	≥ 500	PASS
2462	37.827	38070	≥ 500	PASS

802.11be_EHT40_SU_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2422	37.772	37860	≥ 500	PASS
2437	37.970	38100	≥ 500	PASS
2452	37.853	38020	≥ 500	PASS
2457	37.905	38030	≥ 500	PASS
2462	37.847	38130	≥ 500	PASS

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f (886-2) 2298-0488

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802.11be_EHT20_RU_Ch0

Freq. (MHz)	RU Config	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	242	19.239	19230	≥ 500	PASS
2412	26/0	18.885	2183	≥ 500	PASS
2437	242	19.348	19270	≥ 500	PASS
2462	242	19.175	19250	≥ 500	PASS
2467	242	19.282	19350	≥ 500	PASS
2472	242	19.026	19170	≥ 500	PASS

802.11be_EHT20_RU_Ch1

Freq. (MHz)	RU Config	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	242	19.260	19240	≥ 500	PASS
2412	26/0	18.822	2194	≥ 500	PASS
2437	242	19.374	19270	≥ 500	PASS
2462	242	19.187	19250	≥ 500	PASS
2467	242	19.264	19310	≥ 500	PASS
2472	242	19.075	19190	≥ 500	PASS

802.11be_EHT40_RU_Ch0

Freq. (MHz)	RU Config	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2422	484	38.228	38340	≥ 500	PASS
2437	484	38.265	38430	≥ 500	PASS
2452	484	38.273	38340	≥ 500	PASS
2457	484	38.214	38420	≥ 500	PASS
2462	484	37.889	38140	≥ 500	PASS

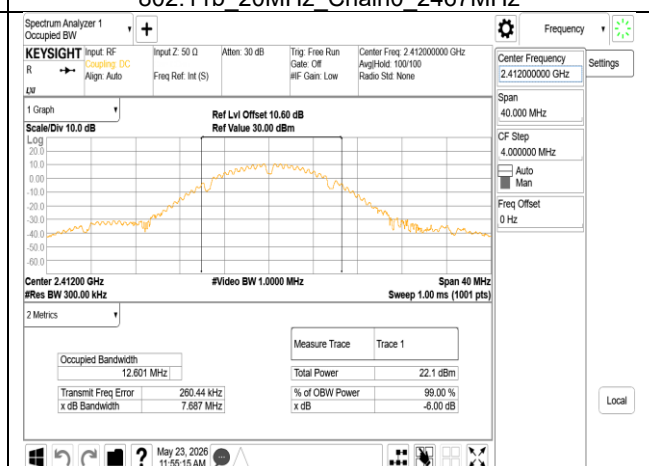
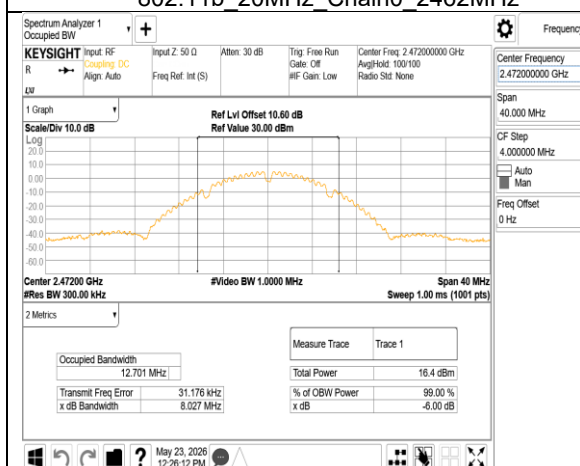
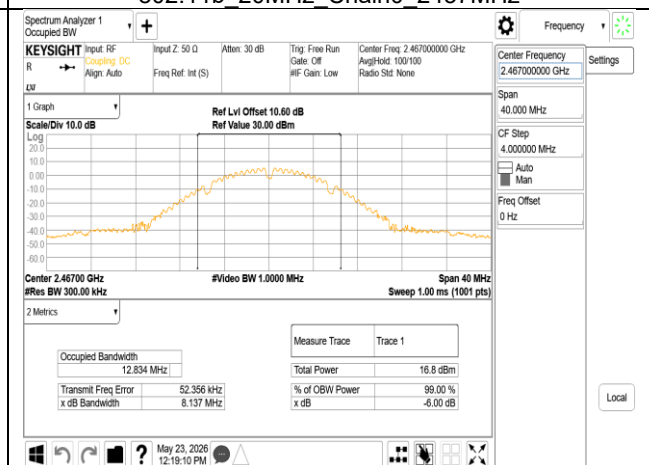
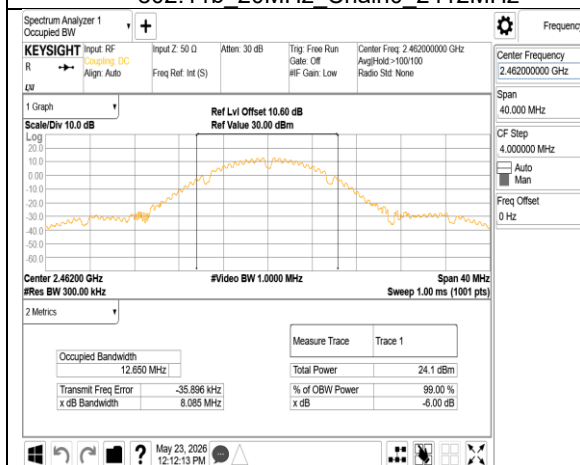
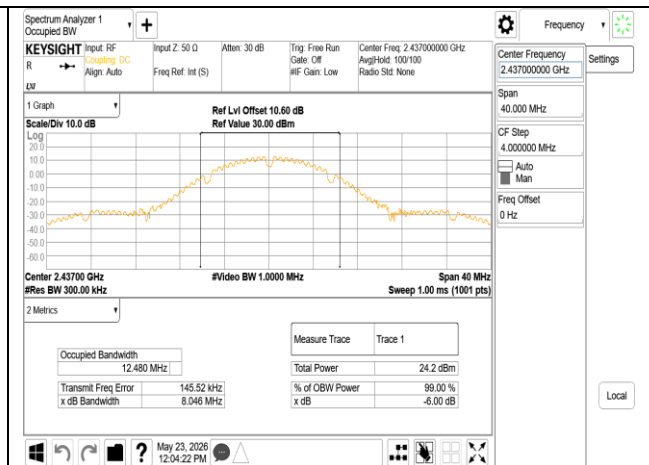
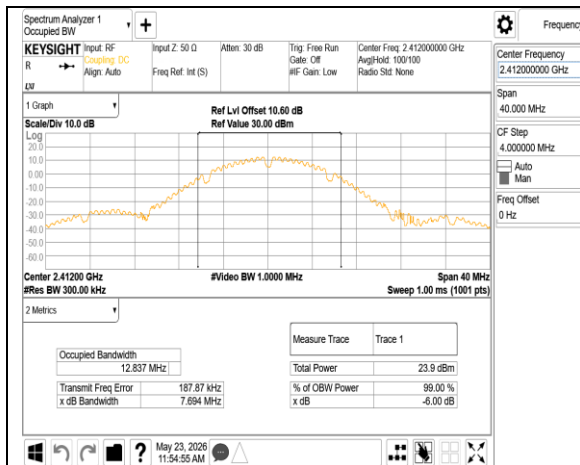
802.11be_EHT40_RU_Ch1

Freq. (MHz)	RU Config	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2422	484	38.205	38320	≥ 500	PASS
2437	484	38.228	38450	≥ 500	PASS
2452	484	38.311	38300	≥ 500	PASS
2457	484	38.237	38450	≥ 500	PASS
2462	484	37.876	38150	≥ 500	PASS

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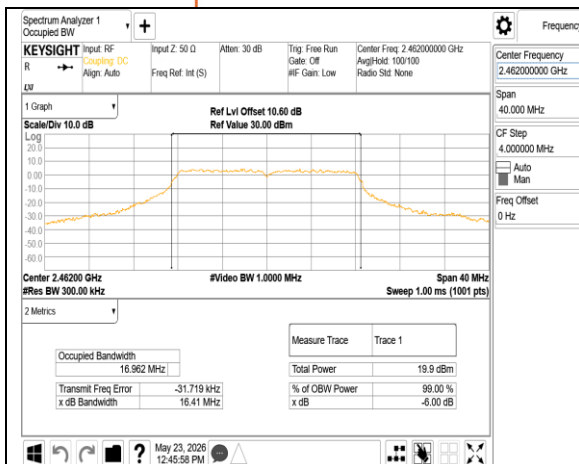
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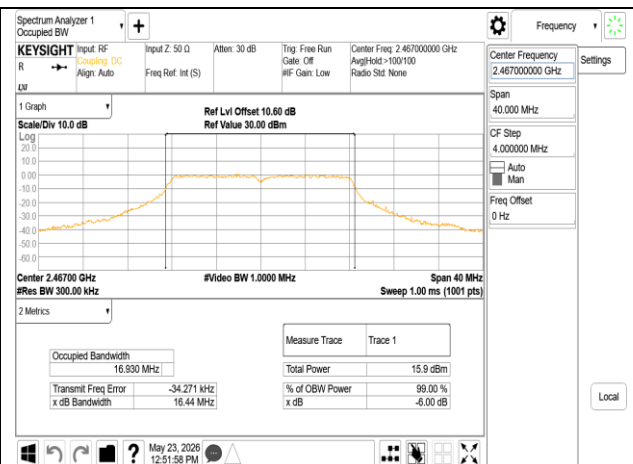
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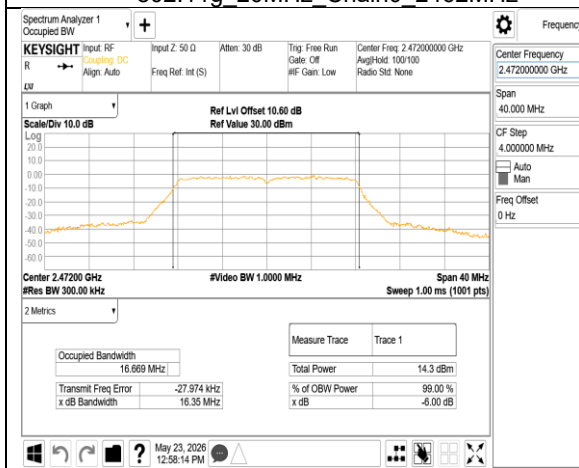
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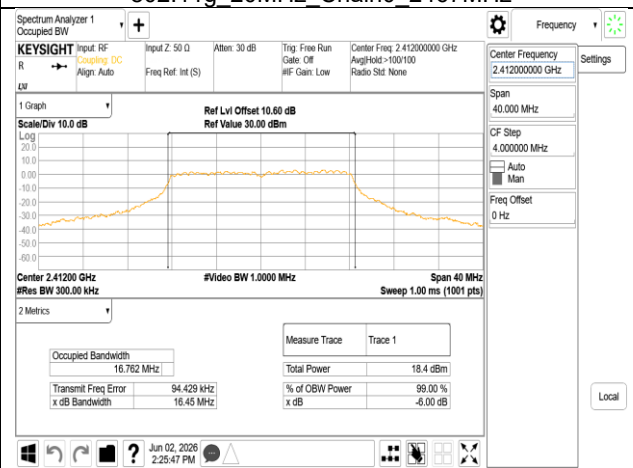
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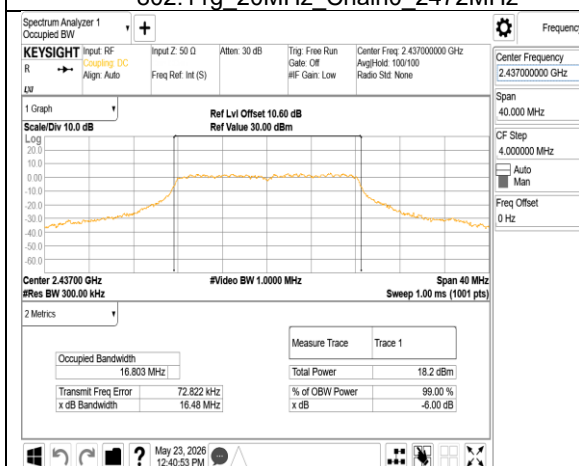
802.11g_20MHz_Chain0_2467MHz



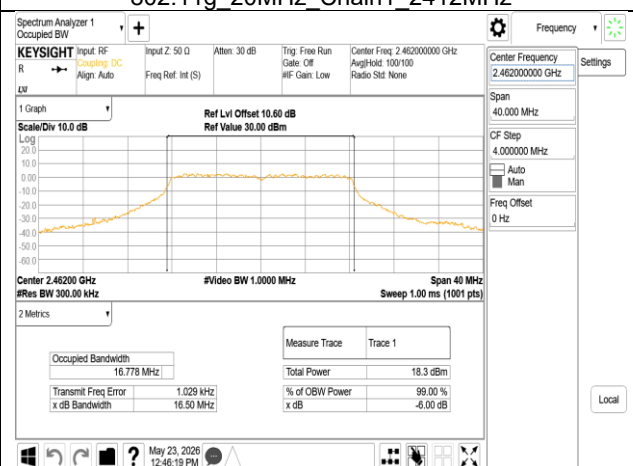
802.11g_20MHz_Chain0_2472MHz



802.11g_20MHz_Chain1_2412MHz



802.11g_20MHz_Chain1_2437MHz

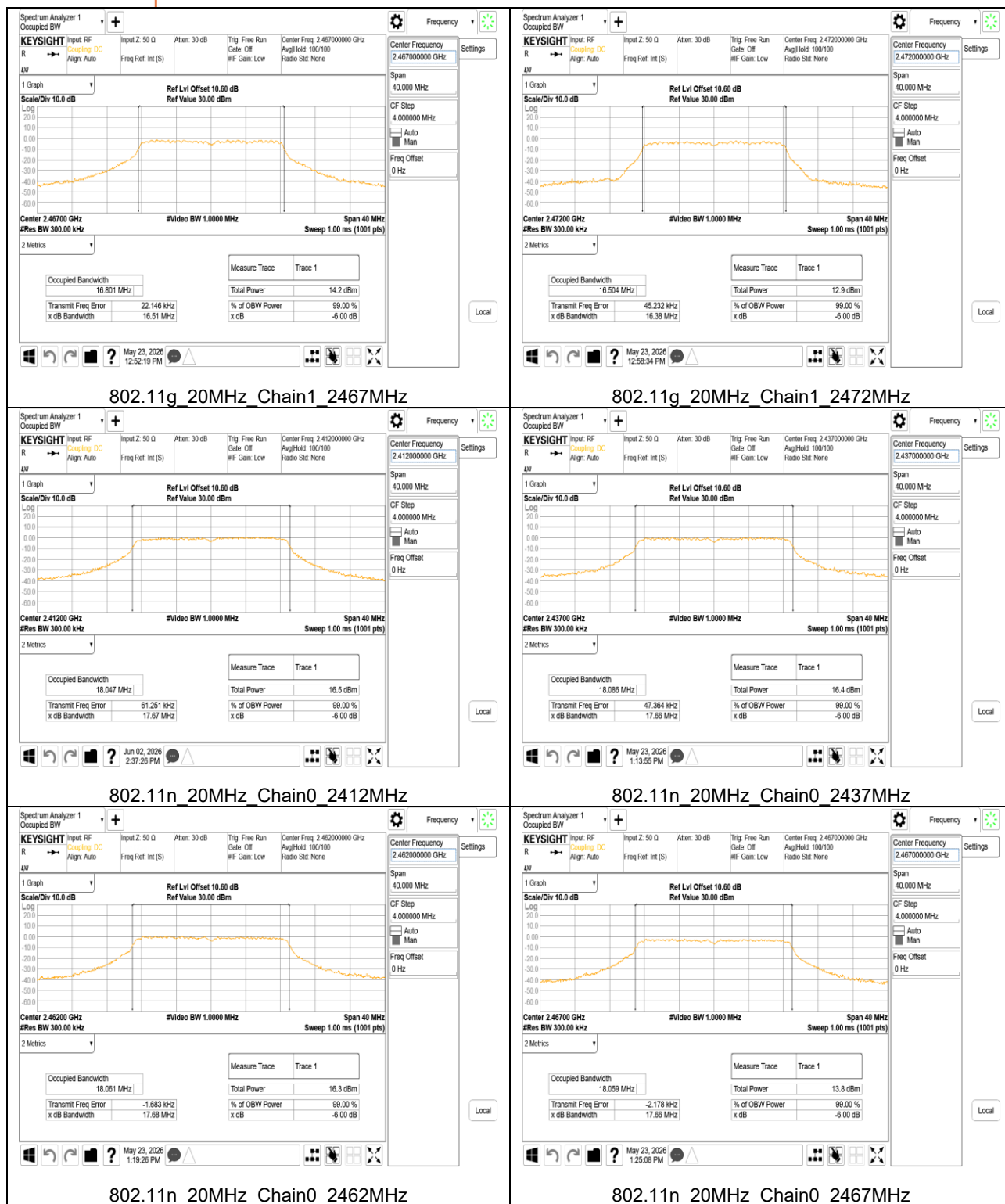


802.11g_20MHz_Chain1_2462MHz

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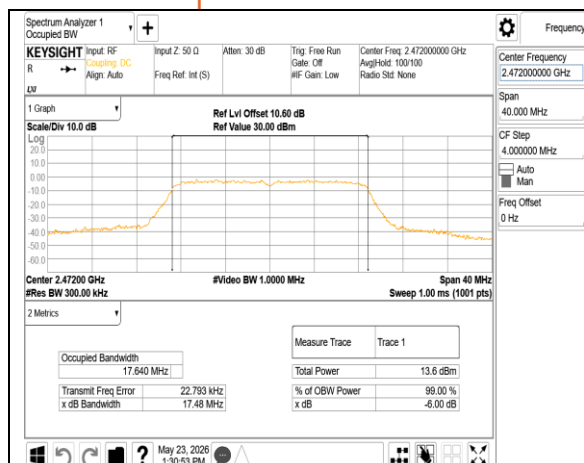
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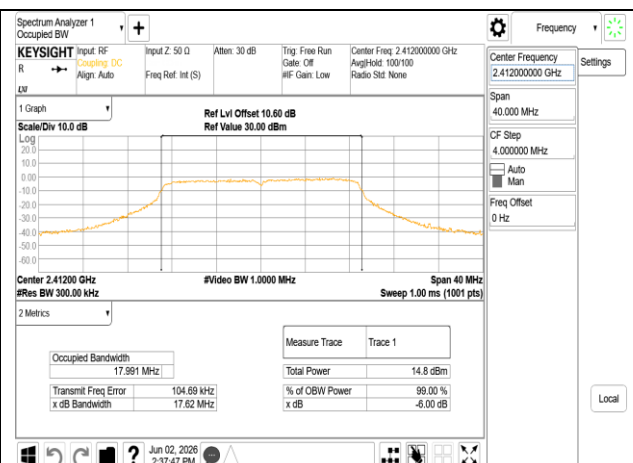
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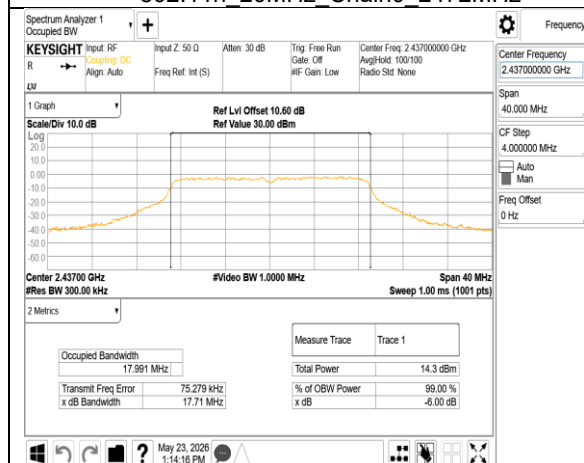
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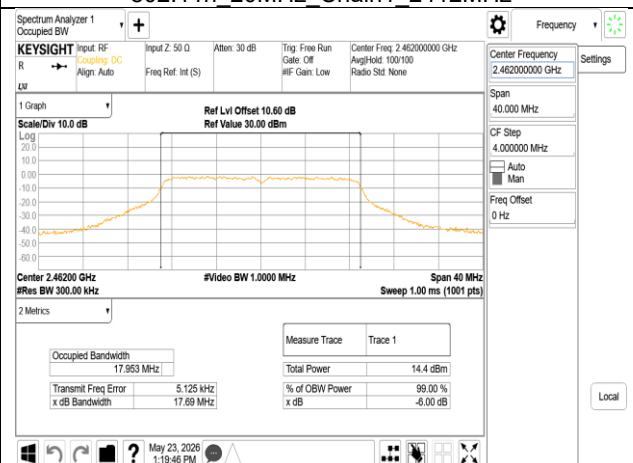
802.11n 20MHz Chain0 2472MHz



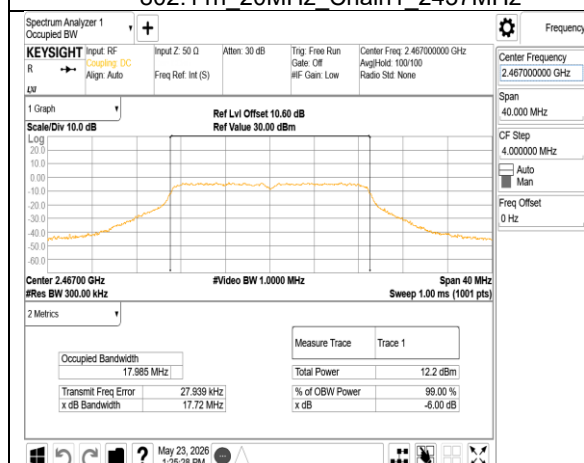
802.11n 20MHz Chain1 2412MHz



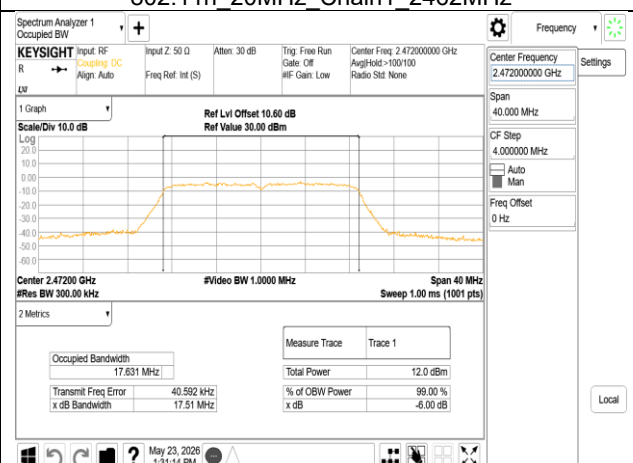
802.11n 20MHz Chain1 2437MHz



802.11n 20MHz Chain1 2462MHz



802.11n 20MHz Chain1 2467MHz



802.11n 20MHz Chain1 2472MHz

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7.2 Duty Cycle

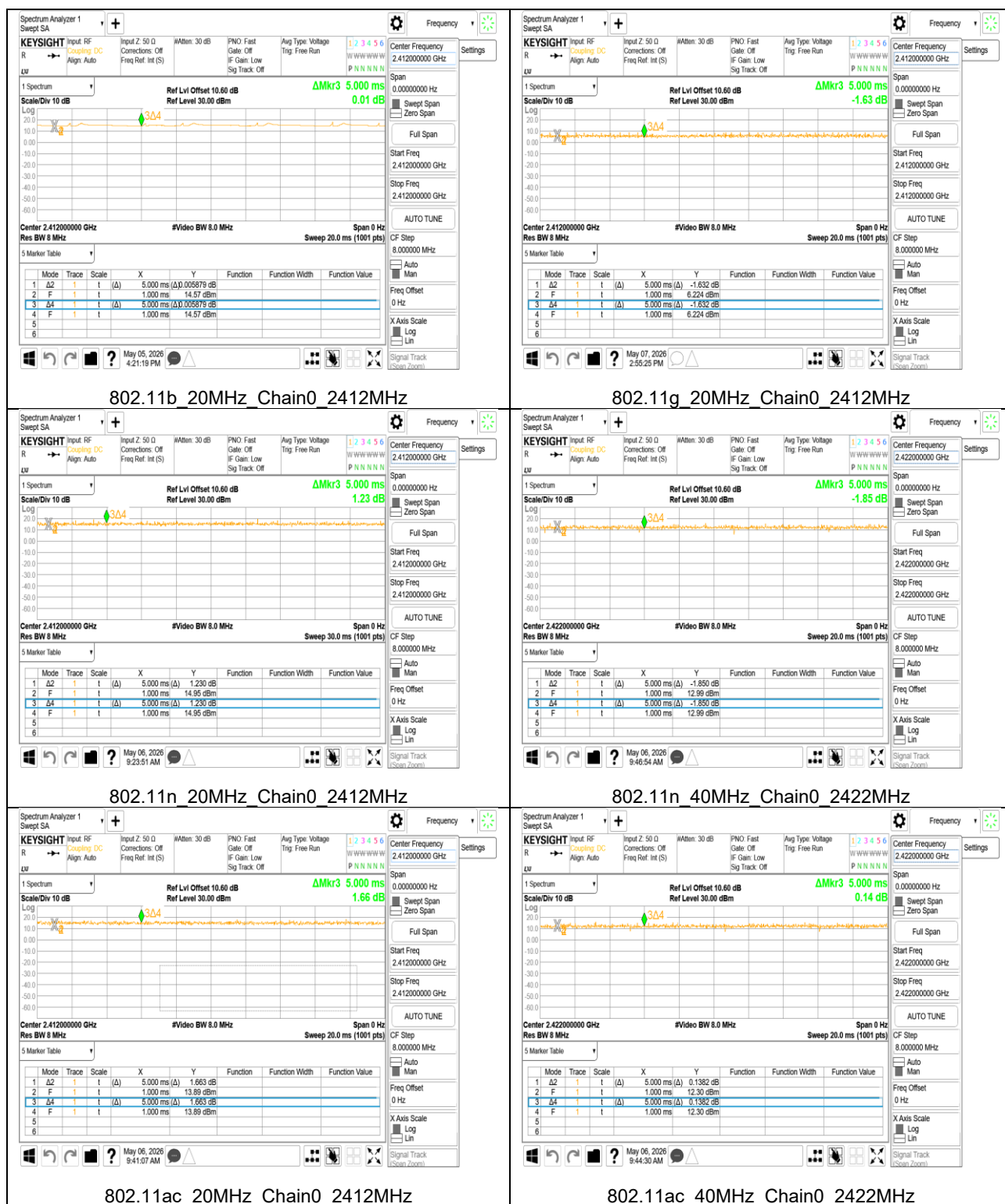
Mode		Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b		100.00	0.00	0.00	0.01
802.11g		100.00	0.00	0.00	0.01
802.11n_20		100.00	0.00	0.00	0.01
802.11n_40		100.00	0.00	0.00	0.01
802.11ac_20		100.00	0.00	0.00	0.01
802.11ac_40		100.00	0.00	0.00	0.01
802.11ax_20_SU		100.00	0.00	0.00	0.01
802.11ax_40_SU		100.00	0.00	0.00	0.01
802.11be_20_SU		100.00	0.00	0.00	0.01
802.11be_40_SU		100.00	0.00	0.00	0.01
Mode	RU Config	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11ax_20_RU	242	100.00	0.00	0.00	0.01
	26 RU	100.00	0.00	0.00	0.01
	52 RU	100.00	0.00	0.00	0.01
	106 RU	100.00	0.00	0.00	0.01
802.11ax_40_RU	484	100.00	0.00	0.00	0.01
	242 RU	100.00	0.00	0.00	0.01
802.11be_20_RU	242	100.00	0.00	0.00	0.01
	26 RU	100.00	0.00	0.00	0.01
	52 RU	100.00	0.00	0.00	0.01
	106 RU	100.00	0.00	0.00	0.01
	52+26 MRU	100.00	0.00	0.00	0.01
	106+26 MRU	100.00	0.00	0.00	0.01
802.11be_40_RU	484	100.00	0.00	0.00	0.01
	242 RU	100.00	0.00	0.00	0.01
	52+26 MRU	100.00	0.00	0.00	0.01
	106+26 MRU	100.00	0.00	0.00	0.01

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7.2.1 Duty Cycle test plots



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t (886-2) 2299-3279

f (886-2) 2298-0488

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