

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: LG Electronics USA, Inc.
111 Sylvan Avenue, North Building, Englewood Cliffs, New
Jersey 07632, United States

Product Name: Notebook Computer

Brand Name: LG or

Model No.: 16T90TP

Series Model: 16T90TP**, 16TD90TP**, 16TG90TP**, 16TB90TP**, 16TS90TP**
Remark "**" can be 0 to 9 or A to Z or dash or blank

Model Difference: For marketing purposes only

Report Number: TERF2409002607ER

FCC ID BEJNT-16T90TP

Date of EUT Received: September 3, 2024

Date of Test: September 4, 2024~November 7, 2024

Issue Date: November 8, 2024

Approved By CHUN-CHIEH, CHEN
Chun Chieh Chen

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 C63.10:2013 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
TERF2409002607ER	00	Original	October 22, 2024	Karen Huang	
TERF2409002607ER	01	Add measurement date of 802.11 ax mode	November 8, 2024	Karen Huang	*

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.
And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Notebook Computer
Brand Name:	LG or  LG
Model No.:	16T90TP
Series Model:	16T90TP**, 16TD90TP**, 16TG90TP**, 16TB90TP**, 16TS90TP** Remark "*" can be 0 to 9 or A to Z or dash or blank
Model Difference:	For marketing purposes only
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	408PGRS937454, 408PGVC937455, 408PGWR937497
Power Supply:	15.52 Vdc from rechargeable battery or 5 / 9 / 15 / 20 Vdc from adapter
Test Software (Name/Version)	DRTU.06643.23.60.0

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1.2 RF Specification

WLAN 2.4GHz

Wi-Fi	Frequency Range	Channels	Rated Power (dBm)		Modulation Technology
			Peak	Avg.	
802.11b	2412~2472	13	14.64	12.53	DSSS
802.11g	2412~2472	13	17.30	12.54	OFDM
802.11n_HT20	2412~2472	13	20.25	15.33	OFDM
802.11n_HT40	2422~2462	9	21.23	15.63	OFDM
802.11ax_HE20	2412~2472	13	20.30	15.34	OFDMA
802.11ax_HE40	2422~2462	9	21.25	15.64	OFDMA
802.11be_EHT20	2412~2472	13	20.33	15.36	OFDMA
802.11be_EHT40	2422~2462	9	21.28	15.68	OFDMA
Modulation type:		CCK, DQPSK, DBPSK for DSSS in 802.11b			
		64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11g, 11n			
		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			
		802.11ax_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

Antenna Type	Supplier	NB Mode / TB Mode	Main / Aux	Antenna Part No.	Freq.	Peak Antenna Gain (dBi)
PIFA	AWAN	NB Mode	Main	AYF6Y-200008 (1415-0ADV000)	2.4GHz	2.87
			Aux	AYF6Y-200008 (1415-0ADV000)		3.02
		TB Mode	Main	AYF6Y-200008 (1415-0ADV000)		-1.81
			Aux	AYF6Y-200008 (1415-0ADV000)		-1.69
PIFA	INPAQ	NB Mode	Main	1415-0ADT000 (WA-F-LELE-04-003)	2.4GHz	2.84
			Aux	1415-0ADT000 (WA-F-LELE-04-003)		2.91
		TB Mode	Main	1415-0ADT000 (WA-F-LELE-04-003)		-1.89
			Aux	1415-0ADT000 (WA-F-LELE-04-003)		-1.75

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. Antenna information is provided by the applicant.
3. Chain A = Aux antenna, Chain B = Main antenna.

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

1.5 Test Facility

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

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 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.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

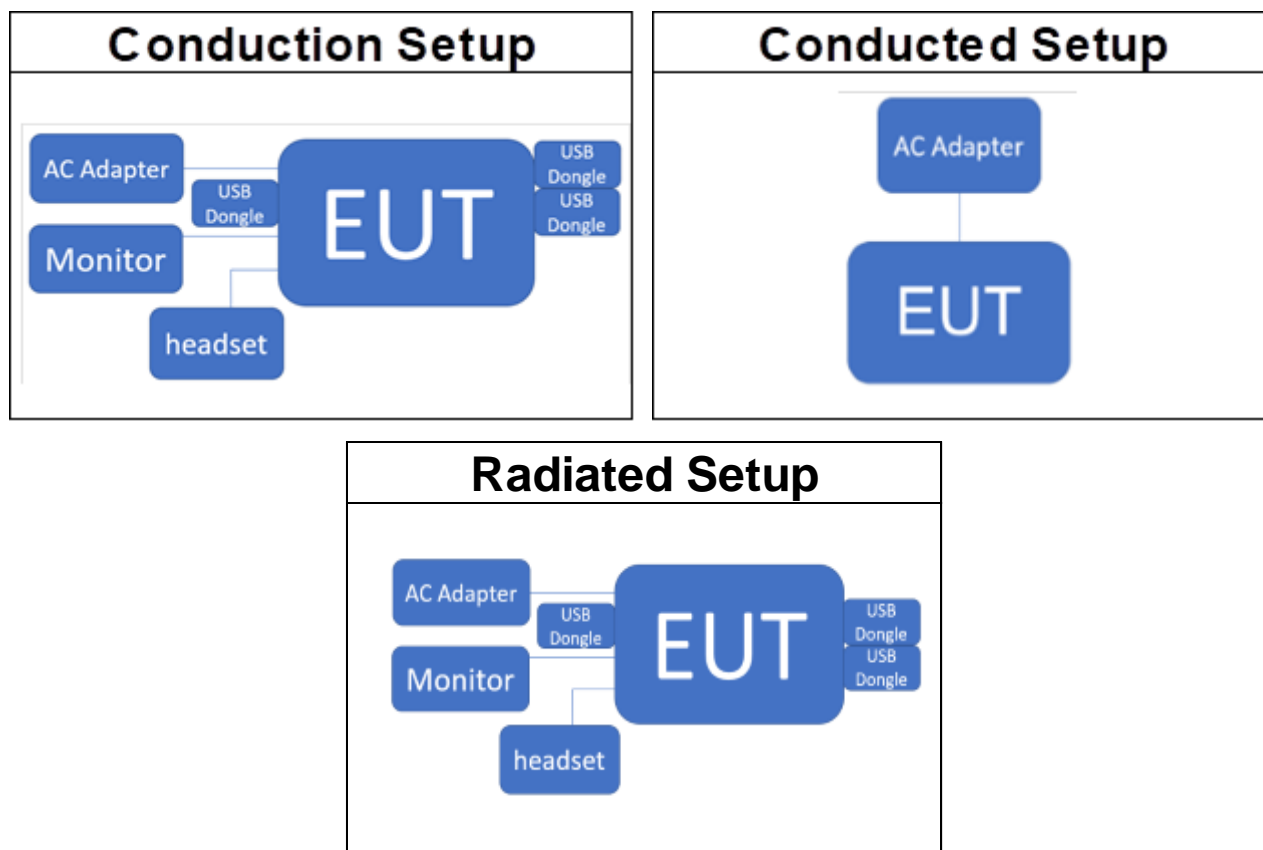
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

2.4.2 For all conducted test items:

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.

2.5 Test Configuration



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2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
AC Adapter	LG	LP65WFC20P-NJ	N/A	N/A	N/A
Type C to Type C cable	Luxshare	L1LUC022-CS-H	N/A	N/A	N/A
Monitor	Dell	U2413f	CN-06VNX5-72872-34D-A6YL	N/A	N/A
Headset	Apple	A1472	N/A	N/A	N/A
USB Dongle	SanDisk	SDCZ600-032G	N/A	N/A	N/A
USB Dongle	SanDisk	SDDDC4	N/A	N/A	N/A
USB Dongle	TEAMGROUP	C175	N/A	N/A	N/A
HDMI Cable	Hotron	E246588	N/A	N/A	N/A
Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
AC Adapter	LG	LP65WFC20P-NJ	N/A	N/A	N/A
Type C to Type C cable	Luxshare	L1LUC022-CS-H	N/A	N/A	N/A
Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
AC Adapter	LG	LP65WFC20P-NJ	N/A	N/A	N/A
Monitor	Dell	U2413f	CN-06VNX5-72872-34D-A6YL	N/A	N/A
HDMI Cable	Hotron	E246588	N/A	N/A	N/A
Headset	Apple	A1472	N/A	N/A	N/A
Type C to Type C cable	Luxshare	L1LUC022-CS-H	N/A	N/A	N/A
USB Dongle	SanDisk	SDCZ600-032G	N/A	N/A	N/A
USB Dongle	SanDisk	SDDDC4	N/A	N/A	N/A
USB Dongle	TEAMGROUP	C175	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	Emission Bandwidth	Compliant
§15.209 §15.247(d)	Conducted Band Edge and Spurious Emission	Compliant
§15.209 §15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.205	Restricted Bands	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.203	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

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

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4.2 The Worst Test Modes and Channel Details

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. Investigation has been done on all the possible configurations for searching the worst case.

The given UE is pre-scanned among below modes.

Modulation		Transmission Chain							Single Transmission Spatial	Multi Transmission Spatial
V	802.11 b	V	ChA	V	ChB		ChC		ChD	V 1TX 2TX
V	802.11 g	V	ChA	V	ChB		ChC		ChD	V 1TX 2TX
V	802.11 n	V	ChA	V	ChB		ChC		ChD	1TX V 2TX
V	802.11 ac	V	ChA	V	ChB		ChC		ChD	1TX V 2TX
V	802.11 ax	V	ChA	V	ChB		ChC		ChD	1TX V 2TX
V	802.11 be	V	ChA	V	ChB		ChC		ChD	1TX V 2TX

4. 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	chA
802.11g	1 to 13	1,6,11,12,13	OFDM	6	chA

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	chB
802.11g	1 to 13	1,6,11,12,13	OFDM	6	chB

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11n_HT20	1 to 13	1,6,11,12,13	OFDM	MCS0	Chain A + Chain B
802.11n_HT40	3 to 11	3,6,9,10,11	OFDM	MCS0	Chain A + Chain B

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

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,MRU3 106+26MRU1,MRU2	MCS0	Chain A + Chain B
802.11be_EHT40	3 to 11	3,6,9,10,11	OFDMA	FULL RU 242/61,242/62	MCS0	Chain A + Chain B

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	Chain A

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	DSSS	1	Chain A
802.11g	1 to 13	1,6,11,12,13	OFDM	6	Chain A

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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	Chain B

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	DSSS	1	Chain B
802.11g	1 to 13	1,6,11,12,13	OFDM	6	Chain B

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11n_HT20	1 to 13	1,6,11,12,13	OFDM	MCS0	Chain A + Chain B
802.11n_HT40	3 to 11	3,6,9,10,11	OFDM	MCS0	Chain A + Chain B

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)						
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	Chain A + Chain B
802.11ax_HE40	3 to 9	3,6,9,10,11	OFDMA	FULL RU 242/61,242/62	MCS0	Chain A + Chain B

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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+26 MRU1,106+26 MRU1 52+26 MRU3,106+26 MRU2	MCS0	Chain A + Chain B
802.11be_EHT40	3 to 11	3,6,9,10,11	OFDMA	FULL RU 242/61,242/62	MCS0	Chain A + Chain B

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for channel Low, Mid and High under TB mode, the worst case position was NB mode as reported.

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.54 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	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.15 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.02 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.7 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.83 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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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2024	06/21/2025
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
LISN	SCHWARZBECK	NSLK 8127	1040	09/07/2024	09/06/2025
LISN	SCHWARZBECK	NSLK 8127	1041	10/26/2023	10/25/2024
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2024	06/21/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Attenuator	Mini-Circuits	BW-S10W2+	28	12/12/2023	12/11/2024
DC Block	Mini-Circuits	BLK-18-S+	10	12/12/2023	12/11/2024
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/04/2024	06/03/2025
Power Meter	Anritsu	ML2496A	1804001	04/16/2024	04/15/2025
Power Sensor	Anritsu	MA2411B	1726104	04/16/2024	04/15/2025
Power Sensor	Anritsu	MA2411B	1726107	04/16/2024	04/15/2025
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

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6.3 Radiated Measurement

Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
4G High Pass Filter	WI	WHKX4.0	22	12/12/2023	12/11/2024
Attenuator	Mini-Circuits	BW-S10W2+	23	12/12/2023	12/11/2024
Band Reject Filter 2400-2483.5	EWT	EWT-14-0166	M3	12/12/2023	12/11/2024
Bi-log Antenna	SCHWARZBECK	VULB9168	9168-1278	03/04/2024	03/03/2025
Coaxial Cables	EMCI	EMC104-SM-SM-600 +EMC105-SM-SM-2000 +EMC105-SM-SM-1500 +EMC105-SM-SM-10000	RX Cable 9K-18G (220237+220909+220906+240801)	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/2	08/30/2024	08/29/2025
EMI Test Receiver	R&S	ESR 7	102525	02/17/2024	02/16/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242392	12/22/2023	12/21/2024
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025
Horn Antenna	RF SPIN	DRH18-E	210303A18-ES	02/16/2024	02/15/2025
Loop Antenna	COM-POWER	AL-130R	10160104	12/04/2023	12/03/2024
Pre-Amplifier	EMCI	EMC118A45SEE	980867	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC184045SEE	9080939	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC330N	980826	08/30/2024	08/29/2025
Site Cal	SGS	SAC 2	N/A	08/30/2024	08/29/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

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Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
4G High Pass Filter	WI	WHKX4.0	24	12/12/2023	12/11/2024
Attenuator	Mini-Circuits	BW-S10W2+	23	12/12/2023	12/11/2024
Band Reject Filter 2400-2483.5	Titan	T04N2400248350S0 1	23040703-10	12/12/2023	12/11/2024
Coaxial Cable	EMCI	EMC104-SM-SM- 8000+EMC106-SM- SM-7600	RX Cable 9K- 18G(160125+15081 7)	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/ 2	08/30/2024	08/29/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242081	10/23/2024	10/22/2025
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	01/12/2024	01/11/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980933	08/30/2024	08/29/2025
Site Cal	SGS	SAC 1	N/A	08/30/2024	08/29/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

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

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable

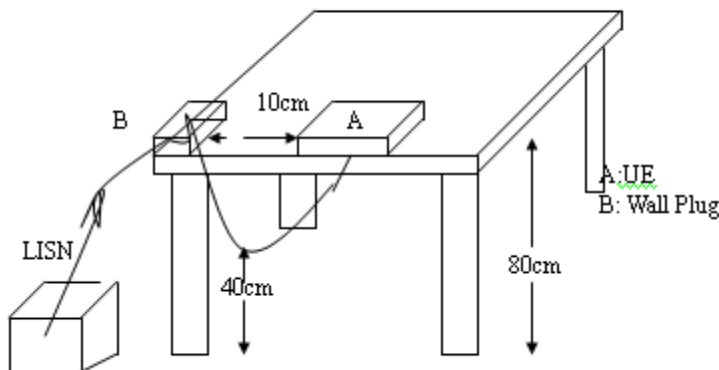
Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits (dBuV)	
	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 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

7.2 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test Setup



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7.4 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed

7.5 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closest to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2409002607ER

Operation Mode :WLAN 2.4G

Power :120V/60Hz

Probe :L

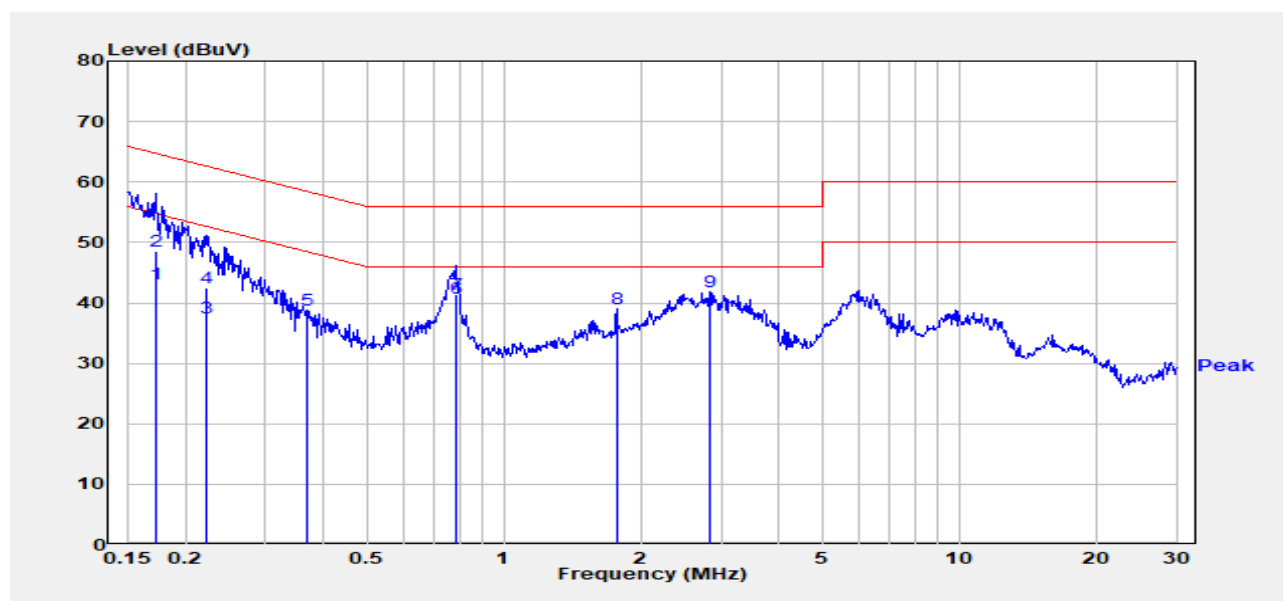
Note: :

Test Site :Conduction 1

Test Date :2024-09-11

Temp./Humi. :26.4°C/51%

Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.172	Average	32.90	10.25	43.15	54.86	-11.71
0.172	QP	38.40	10.25	48.65	64.86	-16.21
0.222	Average	27.30	10.25	37.55	52.74	-15.19
0.222	QP	32.20	10.25	42.45	62.74	-20.29
0.371	Peak	28.60	10.25	38.85	58.47	-19.63
0.783	Average	30.40	10.32	40.72	46.00	-5.28
0.783	QP	31.00	10.32	41.32	56.00	-14.68
1.772	Peak	28.08	10.95	39.03	56.00	-16.97
2.824	Peak	30.91	10.87	41.78	56.00	-14.22

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Report Number :TERF2409002607ER

Operation Mode :WLAN 2.4G

Power :120V/60Hz

Probe :N

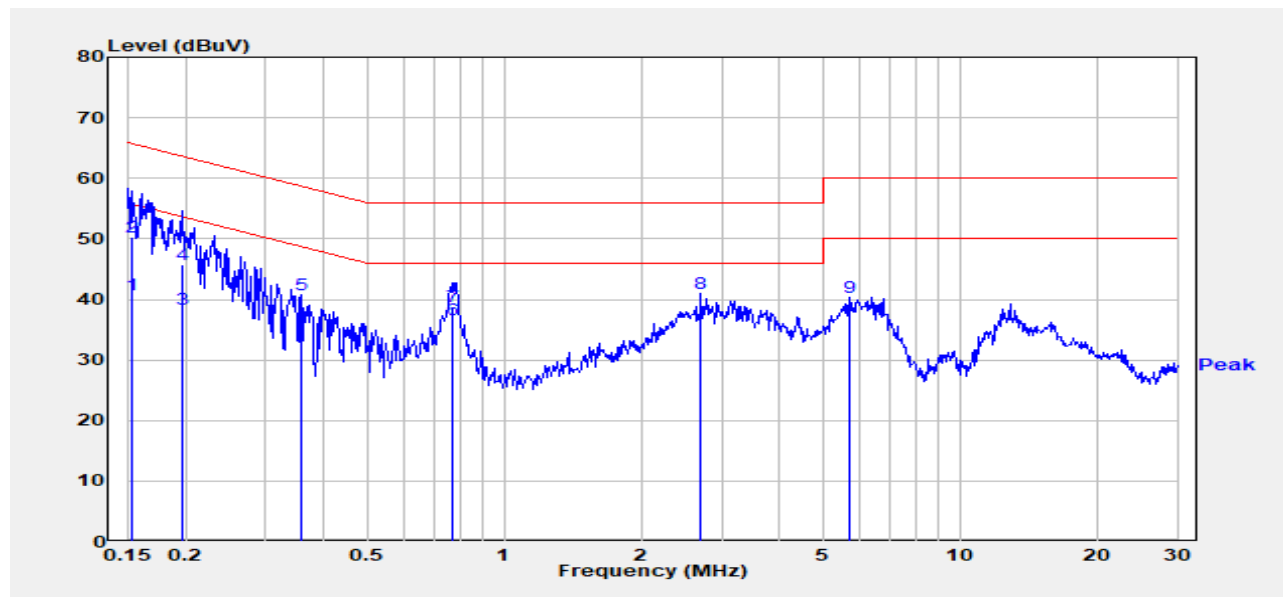
Note: :

Test Site :Conduction 1

Test Date :2024-09-11

Temp./Humi. :26.4°C/51%

Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS		
MHz	PK/QP/AV	dB μ V	dB	dB μ V	dB μ V	dB
0.153	Average	30.60	10.25	40.85	55.82	-14.97
0.153	QP	40.00	10.25	50.25	65.82	-15.57
0.197	Average	28.20	10.25	38.45	53.76	-15.31
0.197	QP	35.40	10.25	45.65	63.76	-18.11
0.358	Peak	30.57	10.25	40.82	58.78	-17.96
0.767	Average	26.40	10.32	36.72	46.00	-9.28
0.767	QP	28.40	10.32	38.72	56.00	-17.28
2.707	Peak	30.13	10.90	41.03	56.00	-14.97
5.713	Peak	29.82	10.57	40.39	60.00	-19.61

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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

8.1.1 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.

8.1.2 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.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Note:

When the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$\bullet \text{ DirectionalGain} = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

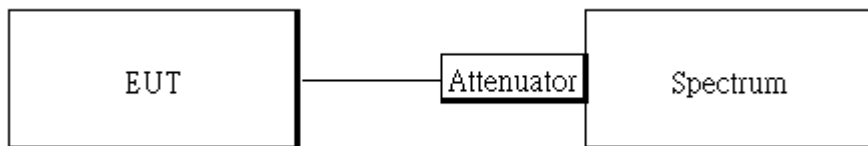
G_k is the gain in dBi of the kth antenna.

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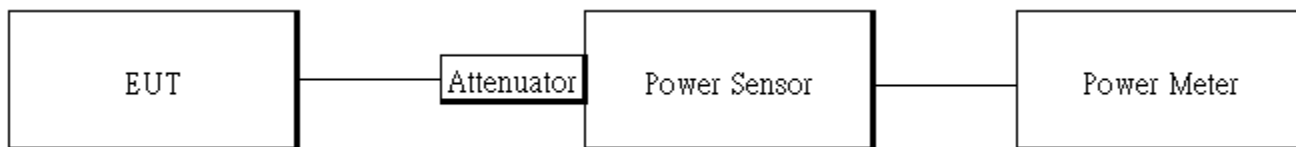
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8.2 Test Setup

8.2.1 Duty Cycle



8.2.2 Output Power:



8.3 Measurement Procedure

8.3.1 Duty Cycle:

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

8.3.2 Output Power

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.
5. MIMO mode: offset is set with “measure and add 10 Log (N)” to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

*** Note: The duty cycle factor and below is compensated to obtain the maximum value of measurement in average.**

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8.4 Measurement Result

8.4.1 Duty Cycle:

Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	99.43	0.02	0.12	0.01
802.11g	97.67	0.10	0.48	1.00

Mode		Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11n_20		99.38	0.03	0.13	0.01
802.11n_40		99.36	0.03	0.13	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	Full	98.76	0.05	0.25	0.01
	26 RU	98.67	0.06	0.26	0.01
	52 RU	97.18	0.12	0.18	1.00
	106 RU	95.45	0.20	0.18	1.00
802.11ax_40	Full	98.79	0.05	0.22	0.01
	242 RU	98.76	0.05	0.22	0.01
802.11be_20	Full	98.48	0.07	0.39	0.01
	26 RU	98.75	0.05	0.26	0.01
	52 RU	98.75	0.05	0.26	0.01
	106 RU	98.75	0.05	0.26	0.01
	52+26 MRU	98.75	0.05	0.26	0.01
	106+26 MRU	98.73	0.06	0.26	0.01
802.11be_40	Full	98.74	0.06	0.27	0.01
	242 RU	98.51	0.07	0.39	0.01

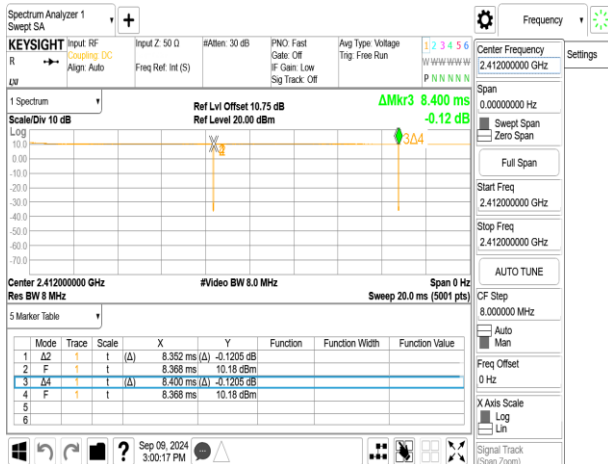
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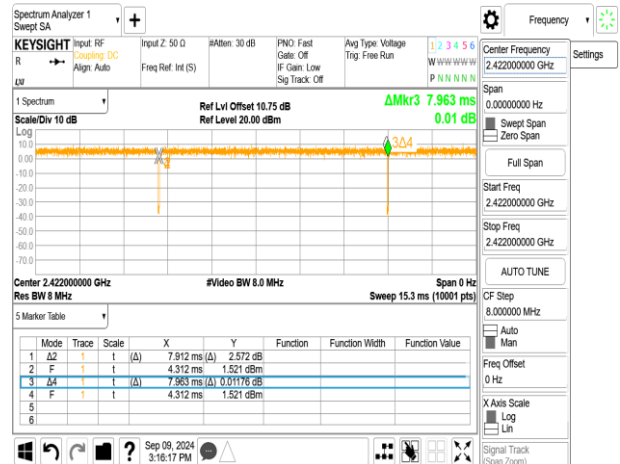
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8.4.2 Duty Cycle test plots

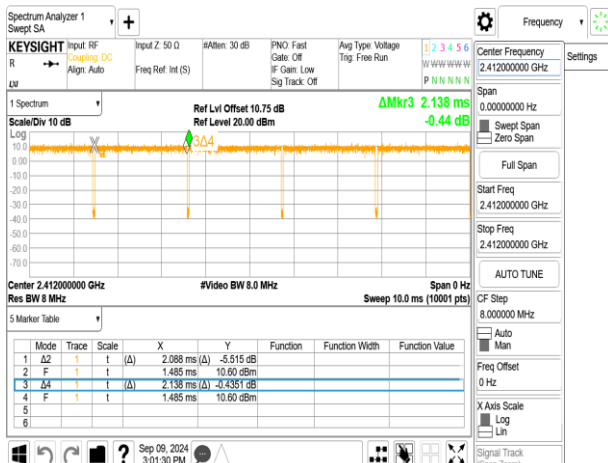
802.11b_20MHz_ChainA_2412MHz



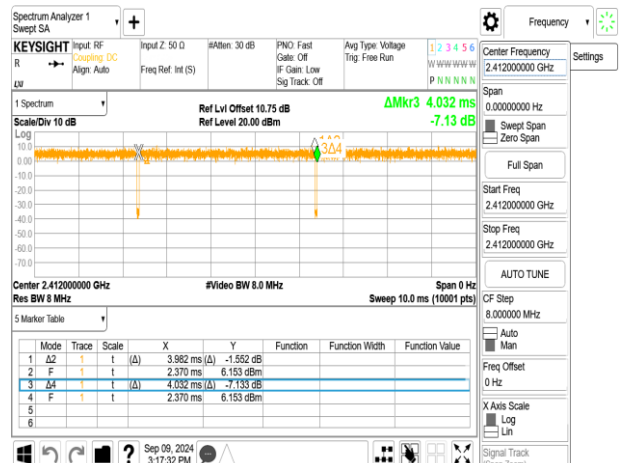
802.11n_40MHz_ChainA_2422MHz



802.11g_20MHz_ChainA_2412MHz



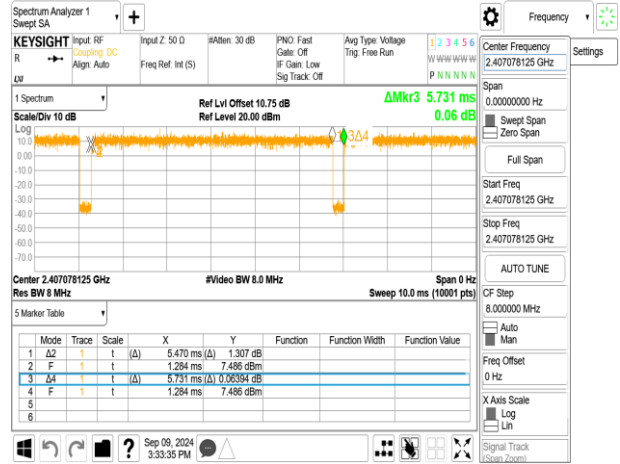
802.11ax_20MHz_ChainA_2412MHz



802.11n_20MHz_ChainA_2412MHz



802.11ax_20MHz_ChainA_2412MHz_RU106_53

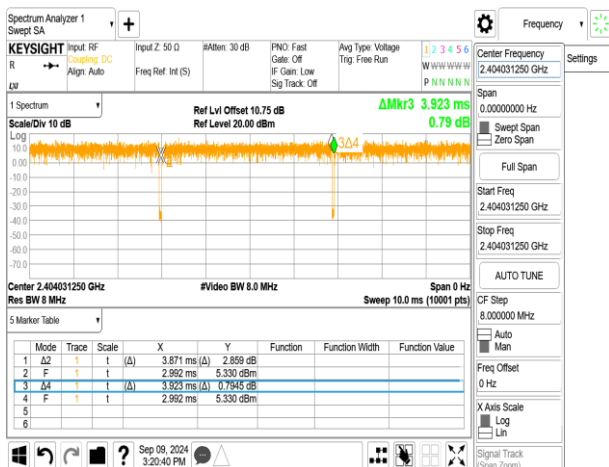


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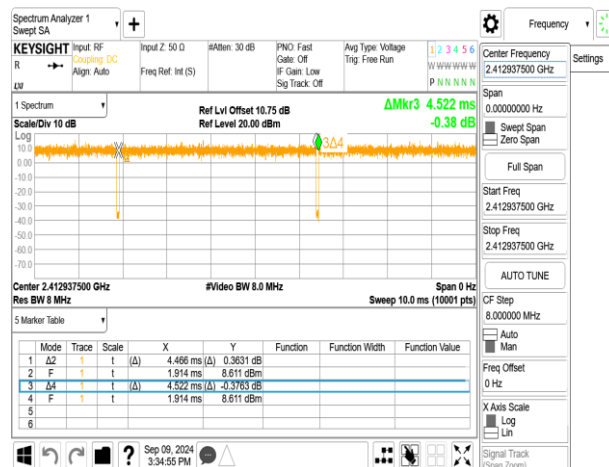
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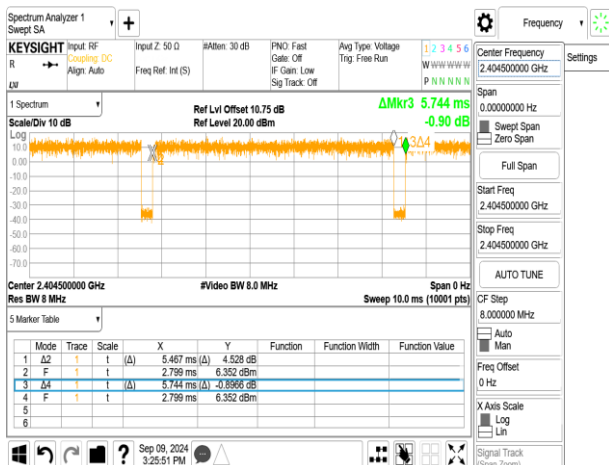
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802.11ax_40MHz_ChainA_2422MHz_RU242_61



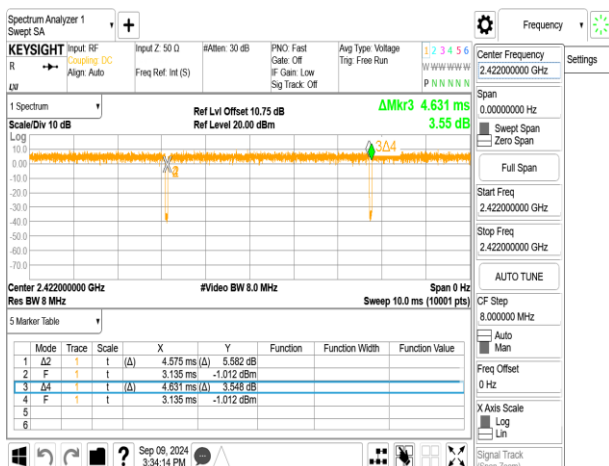
802.11ax_20MHz_ChainA_2412MHz_RU52_37



802.11be_20MHz_ChainA_2412MHz



802.11ax_40MHz_ChainA_2422MHz



802.11be_20MHz_ChainA_2412MHz_106+26_MRU1



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802.11be_20MHz_ChainA_2412MHz_52+26_MRU1



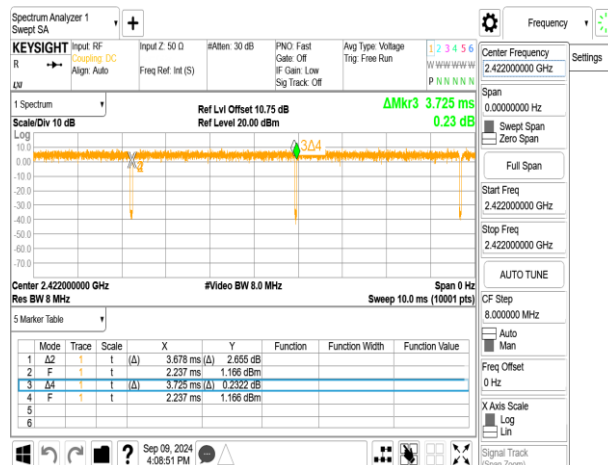
802.11be_20MHz_ChainA_2412MHz_RU52_37



802.11be_20MHz_ChainA_2412MHz_RU106_53



802.11be_40MHz_ChainA_2422MHz



802.11be_20MHz_ChainA_2412MHz_RU26_0



802.11be_40MHz_ChainA_2422MHz_RU242_61



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8.4.3 Output Power

Mode: Chain A

802.11b ChA							
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	12.5	27.93	14.46	30.00	PASS
6	2437	1	12.5	27.54	14.40	30.00	PASS
11	2462	1	12.5	28.77	14.59	30.00	PASS
12	2467	1	12.5	27.73	14.43	30.00	PASS
13	2472	1	12.5	27.61	14.41	30.00	PASS
802.11b ChA							
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	12.5	17.28	12.37	30.00	PASS
6	2437	1	12.5	17.04	12.31	30.00	PASS
11	2462	1	12.5	17.80	12.50	30.00	PASS
12	2467	1	12.5	17.16	12.34	30.00	PASS
13	2472	1	12.5	17.08	12.32	30.00	PASS
802.11g ChA							
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	12.5	52.12	17.17	30.00	PASS
6	2437	6	12.5	51.05	17.08	30.00	PASS
11	2462	6	12.5	52.72	17.22	30.00	PASS
12	2467	6	12.5	51.88	17.15	30.00	PASS
13	2472	6	12.5	52.24	17.18	30.00	PASS
802.11g ChA							
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	12.5	17.39	12.40	30.00	PASS
6	2437	6	12.5	17.19	12.35	30.00	PASS
11	2462	6	12.5	17.79	12.50	30.00	PASS
12	2467	6	12.5	17.35	12.39	30.00	PASS
13	2472	6	12.5	17.27	12.37	30.00	PASS

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Mode: Chain B

802.11b ChB							
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	12.5	29.11	14.64	30.00	PASS
6	2437	1	12.5	28.64	14.57	30.00	PASS
11	2462	1	12.5	29.04	14.63	30.00	PASS
12	2467	1	12.5	28.77	14.59	30.00	PASS
13	2472	1	12.5	28.84	14.60	30.00	PASS

802.11b ChB							
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	12.5	17.93	12.53	30.00	PASS
6	2437	1	12.5	17.60	12.45	30.00	PASS
11	2462	1	12.5	17.88	12.52	30.00	PASS
12	2467	1	12.5	17.76	12.49	30.00	PASS
13	2472	1	12.5	17.84	12.51	30.00	PASS

802.11g ChB							
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	12.5	53.46	17.28	30.00	PASS
6	2437	6	12.5	52.84	17.23	30.00	PASS
11	2462	6	12.5	53.70	17.30	30.00	PASS
12	2467	6	12.5	53.09	17.25	30.00	PASS
13	2472	6	12.5	53.58	17.29	30.00	PASS

802.11g ChB							
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	12.5	17.87	12.52	30.00	PASS
6	2437	6	12.5	17.67	12.47	30.00	PASS
11	2462	6	12.5	17.96	12.54	30.00	PASS
12	2467	6	12.5	17.79	12.50	30.00	PASS
13	2472	6	12.5	17.71	12.48	30.00	PASS

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Mode: Chain A + Chain B

802.11n_HT20M_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				ChA	ChB				
1	2412	MCS0	12.5	17.04	17.29	104.16	20.18	30.00	PASS
6	2437	MCS0	12.5	17.06	17.25	103.90	20.17	30.00	PASS
11	2462	MCS0	12.5	17.18	17.29	105.82	20.25	30.00	PASS
12	2467	MCS0	12.5	17.27	17.18	105.57	20.24	30.00	PASS
13	2472	MCS0	12.5	17.20	17.25	105.57	20.24	30.00	PASS

802.11n_HT20M_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				ChA	ChB				
1	2412	MCS0	12.5	12.11	12.34	33.37	15.23	30.00	PASS
6	2437	MCS0	12.5	12.12	12.27	33.14	15.20	30.00	PASS
11	2462	MCS0	12.5	12.28	12.37	34.14	15.33	30.00	PASS
12	2467	MCS0	12.5	12.27	12.22	33.51	15.25	30.00	PASS
13	2472	MCS0	12.5	12.32	12.27	33.90	15.30	30.00	PASS

802.11n_HT40M_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				ChA	ChB				
3	2422	MCS0	12.5	17.96	17.98	125.32	20.98	30.00	PASS
6	2437	MCS0	12.5	17.95	17.97	125.03	20.97	30.00	PASS
9	2452	MCS0	12.5	17.97	18.01	125.90	21.00	30.00	PASS
10	2457	MCS0	12.5	18.20	18.23	132.60	21.23	30.00	PASS
11	2462	MCS0	12.5	18.02	18.10	127.95	21.07	30.00	PASS

802.11n_HT40M_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				ChA	ChB				
3	2422	MCS0	12.5	12.31	12.43	34.50	15.38	30.00	PASS
6	2437	MCS0	12.5	12.29	12.38	34.22	15.34	30.00	PASS
9	2452	MCS0	12.5	12.34	12.45	34.70	15.40	30.00	PASS
10	2457	MCS0	12.5	12.52	12.72	36.55	15.63	30.00	PASS
11	2462	MCS0	12.5	12.46	12.54	35.55	15.51	30.00	PASS

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802.11ax_HE20M_2TX

CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					ChA	ChB				
1	2412	MCS0	full	12.5	17.11	17.33	105.48	20.23	30.00	PASS
			26/0	5	10.04	10.21	20.59	13.14	30.00	PASS
			52/37	7	12.30	12.52	34.85	15.42	30.00	PASS
			106/53	10	15.21	15.48	68.51	18.36	30.00	PASS
6	2437	MCS0	full	12.5	17.08	17.26	104.26	20.18	30.00	PASS
11	2462	MCS0	full	12.5	17.25	17.33	107.16	20.30	30.00	PASS
			26/8	4.5	9.29	9.42	17.24	12.37	30.00	PASS
			52/40	6.5	10.28	10.41	21.66	13.36	30.00	PASS
			106/54	9	14.50	14.29	55.04	17.41	30.00	PASS
12	2467	MCS0	full	12.5	17.22	17.26	105.93	20.25	30.00	PASS
13	2472	MCS0	full	12.5	17.26	17.29	106.79	20.29	30.00	PASS
			26/8	4	8.39	8.48	13.95	11.45	30.00	PASS
			52/40	9	9.10	9.41	16.86	12.27	30.00	PASS
			106/54	9	13.20	13.25	42.03	16.24	30.00	PASS

802.11ax_HE20M_2TX

CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
					ChA	ChB				
1	2412	MCS0	full	12.5	12.12	12.37	33.58	15.26	30.00	PASS
			26/0	5	5.09	5.38	6.68	8.25	30.00	PASS
			52/37	7	7.07	7.42	10.62	10.26	30.00	PASS
			106/53	10	9.88	10.00	19.74	12.95	30.00	PASS
6	2437	MCS0	full	12.5	12.13	12.28	33.27	15.22	30.00	PASS
11	2462	MCS0	full	12.5	12.29	12.36	34.20	15.34	30.00	PASS
			26/8	4.5	4.56	4.70	5.81	7.64	30.00	PASS
			52/40	6.5	6.62	6.81	9.40	9.73	30.00	PASS
			106/54	9	9.01	9.32	16.52	12.18	30.00	PASS
12	2467	MCS0	full	12.5	12.20	12.32	33.69	15.27	30.00	PASS
13	2472	MCS0	full	12.5	12.29	12.35	34.16	15.33	30.00	PASS
			26/8	4	3.45	3.44	4.42	6.45	30.00	PASS
			52/40	9	4.83	4.84	6.09	7.85	30.00	PASS
			106/54	9	8.85	8.97	15.57	11.92	30.00	PASS

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802.11ax_HE40M_2TX										
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					ChA	ChB				
3	2422	MCS0	full	12.5	17.92	18.04	125.62	20.99	30.00	PASS
			242/61	9	14.01	14.04	50.53	17.04	30.00	PASS
6	2437	MCS0	full	12.5	17.96	18.07	126.64	21.03	30.00	PASS
9	2452	MCS0	full	12.5	18.01	18.05	127.07	21.04	30.00	PASS
			242/62	8	11.97	12.02	31.66	15.01	30.00	PASS
10	2457	MCS0	full	12.5	18.22	18.25	133.21	21.25	30.00	PASS
11	2462	MCS0	full	12.5	18.05	18.13	128.84	21.10	30.00	PASS
			242/62	8	11.76	11.84	30.27	14.81	30.00	PASS
802.11ax_HE40M_2TX										
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
					ChA	ChB				
3	2422	MCS0	full	12.5	12.33	12.48	34.82	15.42	30.00	PASS
			242/61	9	9.00	9.27	16.41	12.15	30.00	PASS
6	2437	MCS0	full	12.5	12.32	12.42	34.54	15.38	30.00	PASS
9	2452	MCS0	full	12.5	12.35	12.44	34.74	15.41	30.00	PASS
			242/62	8	7.86	8.00	12.43	10.95	30.00	PASS
10	2457	MCS0	full	12.5	12.56	12.69	36.63	15.64	30.00	PASS
11	2462	MCS0	full	12.5	12.45	12.58	35.72	15.53	30.00	PASS
			242/62	8	7.79	8.18	12.60	11.00	30.00	PASS

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802.11be_EHT20M_2TX

CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					ChA	ChB				
1	2412	MCS0	full	12.5	17.11	17.32	105.36	20.23	30.00	PASS
			26/0	5	10.09	10.28	20.88	13.20	30.00	PASS
			52/37	7	12.33	12.56	35.13	15.46	30.00	PASS
			106/53	10	15.25	15.51	69.06	18.39	30.00	PASS
			52+26 MRU1	9	13.28	13.57	44.03	16.44	30.00	PASS
			106+26 MRU1	11	16.16	16.48	85.77	19.33	30.00	PASS
6	2437	MCS0	full	12.5	17.12	17.36	105.97	20.25	30.00	PASS
11	2462	MCS0	full	12.5	17.23	17.29	106.42	20.27	30.00	PASS
			26/8	4.5	9.34	9.45	17.40	12.41	30.00	PASS
			52/40	6.5	10.31	10.45	21.83	13.39	30.00	PASS
			106/54	9	14.53	14.33	55.48	17.44	30.00	PASS
			52+26 MRU3	9	14.74	14.96	61.12	17.86	30.00	PASS
			106+26 MRU2	11	15.48	15.69	72.39	18.60	30.00	PASS
12	2467	MCS0	full	12.5	17.28	17.23	106.30	20.27	30.00	PASS
13	2472	MCS0	full	12.5	17.30	17.34	107.90	20.33	30.00	PASS
			26/8	4	8.41	8.50	14.01	11.47	30.00	PASS
			52/40	9	9.14	9.46	17.03	12.31	30.00	PASS
			106/54	9	13.26	13.29	42.51	16.29	30.00	PASS
			52+26 MRU3	8	11.13	11.18	26.09	14.17	30.00	PASS
			106+26 MRU2	9.5	14.69	14.66	58.69	17.69	30.00	PASS

802.11be_EHT20M_2TX

CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
					ChA	ChB				
1	2412	MCS0	full	12.5	12.18	12.38	33.79	15.29	30.00	PASS
			26/0	5	5.10	5.39	6.70	8.26	30.00	PASS
			52/37	7	7.08	7.42	10.64	10.27	30.00	PASS
			106/53	10	9.85	10.06	19.82	12.97	30.00	PASS
			52+26 MRU1	9	8.85	9.39	16.38	12.14	30.00	PASS
			106+26 MRU1	11	10.83	11.00	24.67	13.92	30.00	PASS
6	2437	MCS0	full	12.5	12.15	12.35	33.56	15.26	30.00	PASS
11	2462	MCS0	full	12.5	12.31	12.39	34.33	15.36	30.00	PASS
			26/8	4.5	4.58	4.70	5.83	7.66	30.00	PASS
			52/40	6.5	6.64	6.80	9.41	9.74	30.00	PASS
			106/54	9	9.01	9.33	16.55	12.19	30.00	PASS
			52+26 MRU3	9	9.09	9.41	16.86	12.27	30.00	PASS
			106+26 MRU2	11	10.97	11.00	25.07	13.99	30.00	PASS
12	2467	MCS0	full	12.5	12.25	12.31	33.78	15.29	30.00	PASS
13	2472	MCS0	full	12.5	12.31	12.37	34.25	15.35	30.00	PASS
			26/8	4	3.47	3.45	4.44	6.47	30.00	PASS
			52/40	9	4.84	4.85	6.11	7.86	30.00	PASS
			106/54	9	8.84	8.99	15.60	11.93	30.00	PASS
			52+26 MRU3	8	7.94	8.12	12.72	11.05	30.00	PASS
			106+26 MRU2	9.5	9.36	9.32	17.16	12.35	30.00	PASS

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

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802.11be_EHT40M_2TX										
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					ChA	ChB				
3	2422	MCS0	full	12.5	17.95	18.15	127.69	21.06	30.00	PASS
			242/61	9	13.31	13.26	42.61	16.30	30.00	PASS
6	2437	MCS0	full	12.5	17.98	18.10	127.37	21.05	30.00	PASS
9	2452	MCS0	full	12.5	17.99	18.11	127.66	21.06	30.00	PASS
			242/62	8	11.85	11.92	30.87	14.90	30.00	PASS
10	2457	MCS0	full	12.5	18.25	18.28	134.13	21.28	30.00	PASS
11	2462	MCS0	full	12.5	18.07	18.15	129.43	21.12	30.00	PASS
			242/62	8	11.87	11.94	31.01	14.92	30.00	PASS
802.11be_EHT40M_2TX										
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
					ChA	ChB				
3	2422	MCS0	full	12.5	12.35	12.49	34.88	15.43	30.00	PASS
			242/61	9	9.05	9.32	16.57	12.19	30.00	PASS
6	2437	MCS0	full	12.5	12.34	12.42	34.56	15.39	30.00	PASS
9	2452	MCS0	full	12.5	12.36	12.47	34.84	15.42	30.00	PASS
			242/62	8	7.91	8.05	12.55	10.99	30.00	PASS
10	2457	MCS0	full	12.5	12.59	12.75	36.95	15.68	30.00	PASS
11	2462	MCS0	full	12.5	12.48	12.59	35.82	15.54	30.00	PASS
			242/62	8	7.84	8.24	12.74	11.05	30.00	PASS

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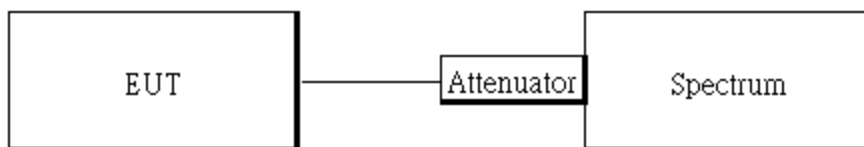
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9 EMISSION BANDWIDTH MEASUREMENT

9.1 Standard Applicable

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

9.2 Test Setup



9.3 Measurement Procedure:

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.

9.3.1 6dB BW measurements

1. The testing follows the Measurement Procedure of the KDB 558074 D01.
2. Set the spectrum analyzer as
RBW= 100 kHz ,
VBW = 3 X RBW,
Span= 2 to 5 times of the OBW,
Sweep=auto, Detector = Peak, and Max hold.
3. Mark the upper and lower frequencies of -6dB.
4. Repeat above procedures until all test default channel is completed.

9.3.2 99% BW measurements

1. The testing follows the Measurement Procedure of the RSS-Gen section 6.7.
2. Set the spectrum analyzer as
RBW= 1 % to 5% of 99%,
VBW \geq 3 X RBW,
Span= large enough to capture all products of the modulation process
Sweep=auto, Detector = Peak, and Max hold.
3. Mark the upper and lower frequencies of 99%.
4. Repeat above procedures until all test default channel is completed.

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9.4 Measurement Result:

9.4.1 6dB BW measurements

Mode: Chain A

802.11b ChA

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	9083.00	≥ 500	PASS
2437	9076.00	≥ 500	PASS
2462	9073.00	≥ 500	PASS
2467	9064.00	≥ 500	PASS
2472	9020.00	≥ 500	PASS

802.11g ChA

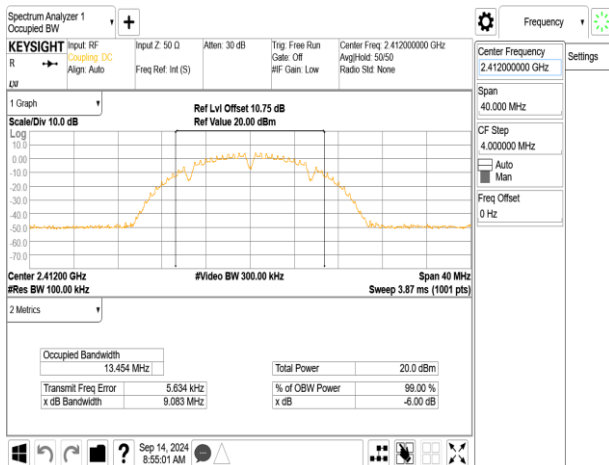
Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15160.00	≥ 500	PASS
2437	15360.00	≥ 500	PASS
2462	15150.00	≥ 500	PASS
2467	17000.00	≥ 500	PASS
2472	18760.00	≥ 500	PASS

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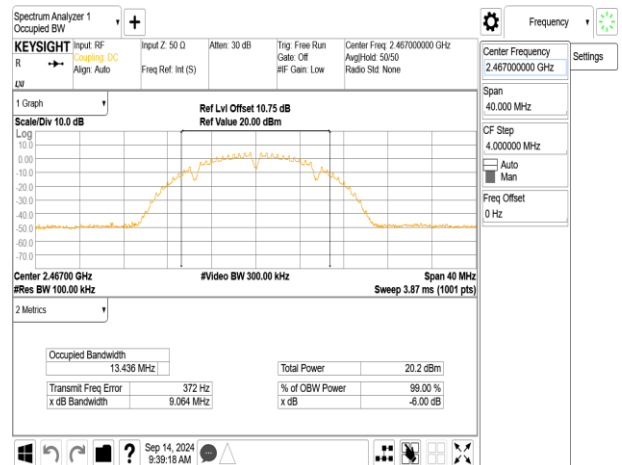
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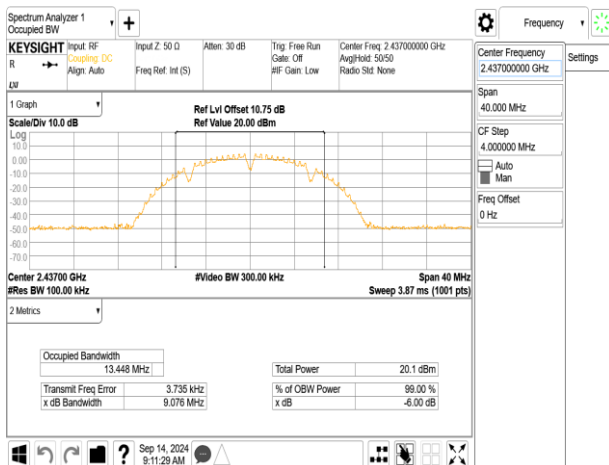
802.11b_20MHz_ChainA_2412MHz



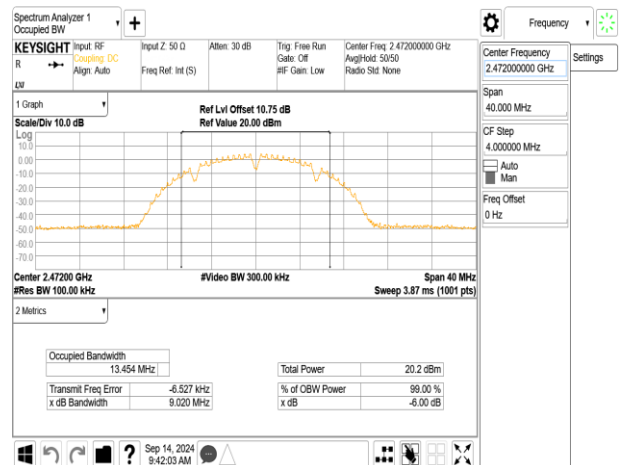
802.11b_20MHz_ChainA_2467MHz



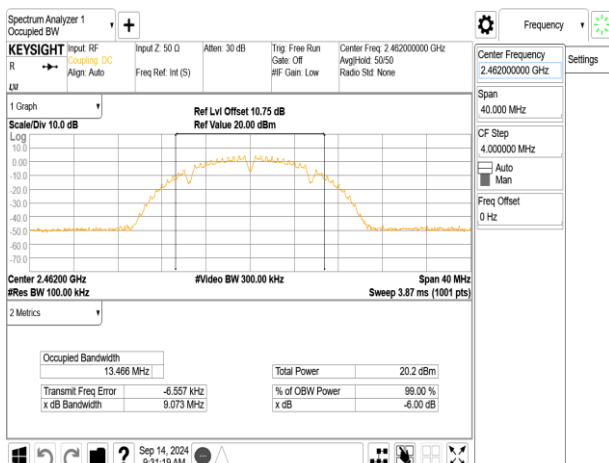
802.11b_20MHz_ChainA_2437MHz



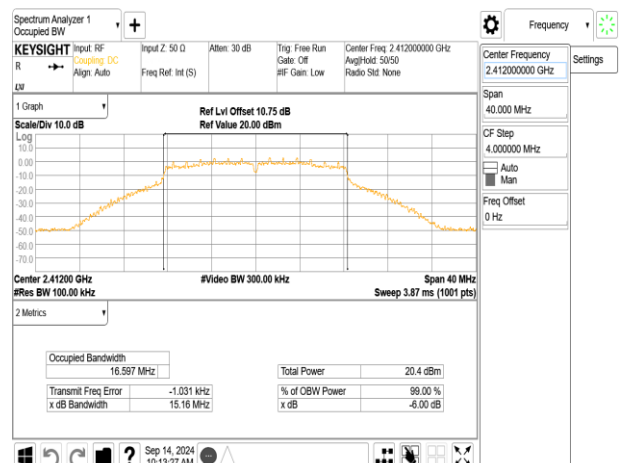
802.11b_20MHz_ChainA_2472MHz



802.11b_20MHz_ChainA_2462MHz



802.11g_20MHz_ChainA_2412MHz

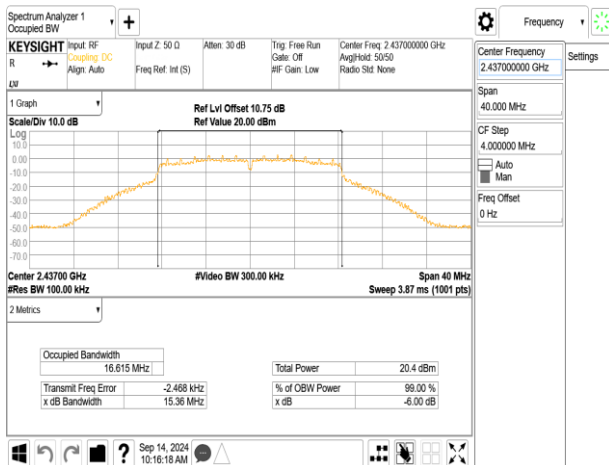


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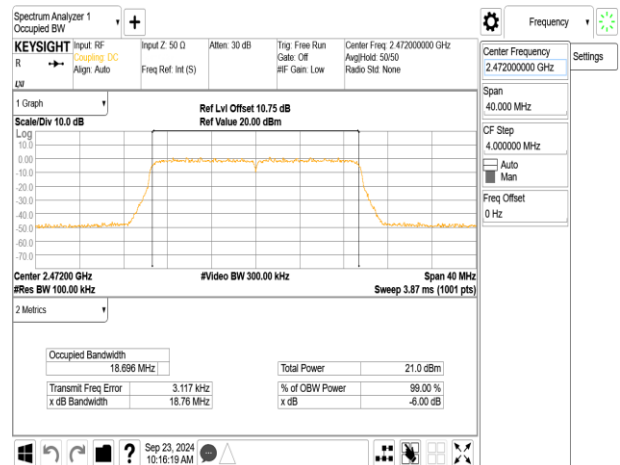
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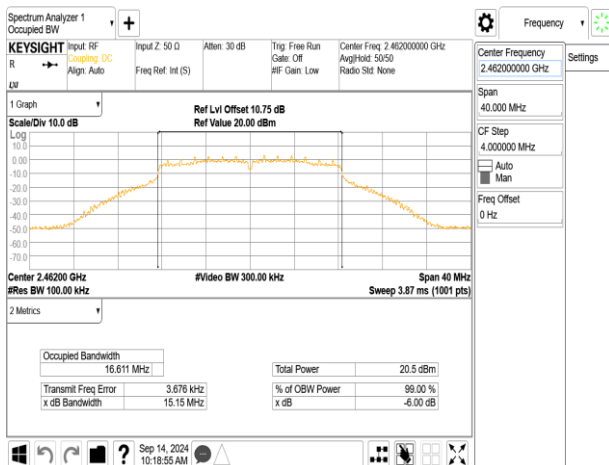
802.11g_20MHz_ChainA_2437MHz



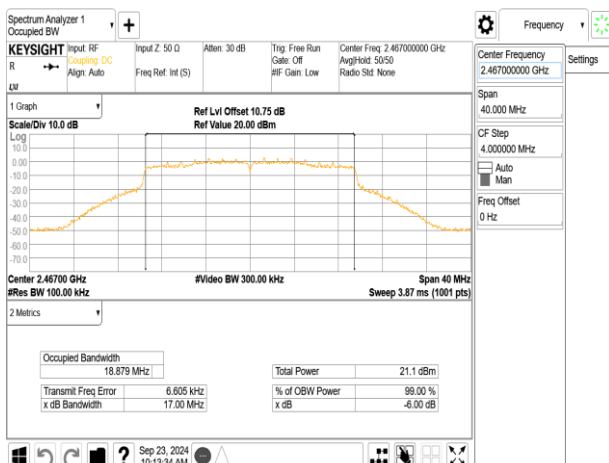
802.11g_20MHz_ChainA_2472MHz



802.11g_20MHz_ChainA_2462MHz



802.11g_20MHz_ChainA_2467MHz



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802.11b ChB

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	9076.00	≥ 500	PASS
2437	9075.00	≥ 500	PASS
2462	9074.00	≥ 500	PASS
2467	9075.00	≥ 500	PASS
2472	9075.00	≥ 500	PASS

802.11g ChB

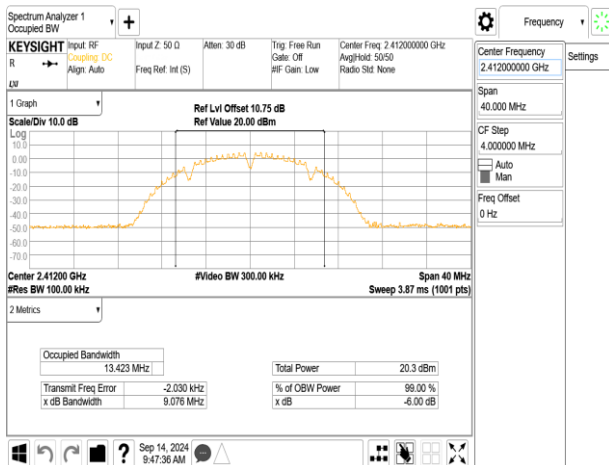
Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15170.00	≥ 500	PASS
2437	15170.00	≥ 500	PASS
2462	15510.00	≥ 500	PASS
2467	17240.00	≥ 500	PASS
2472	18730.00	≥ 500	PASS

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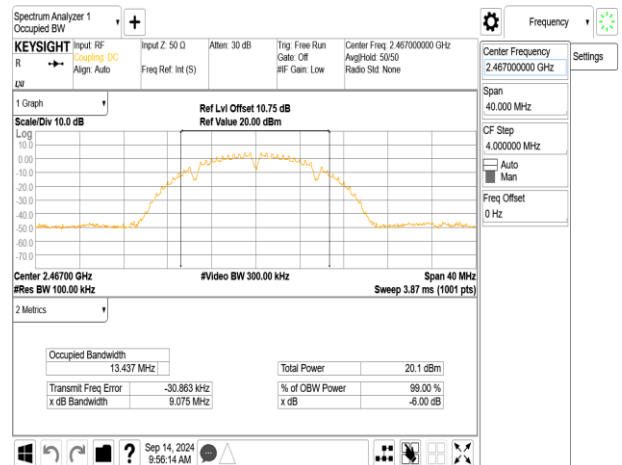
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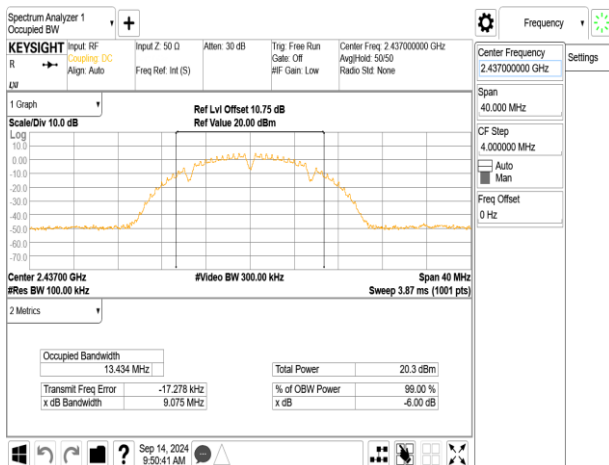
802.11b_20MHz_ChainB_2412MHz



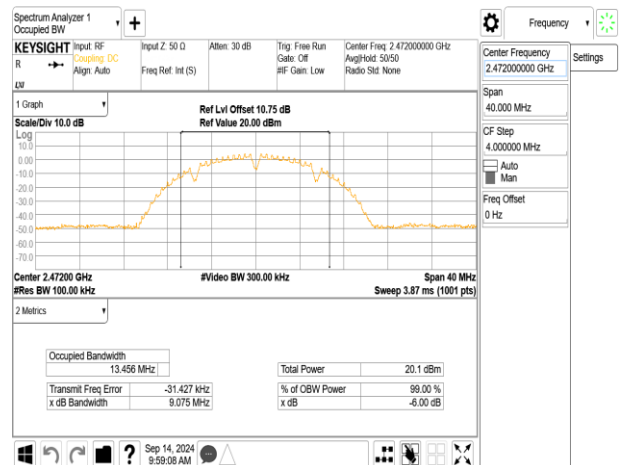
802.11b_20MHz_ChainB_2467MHz



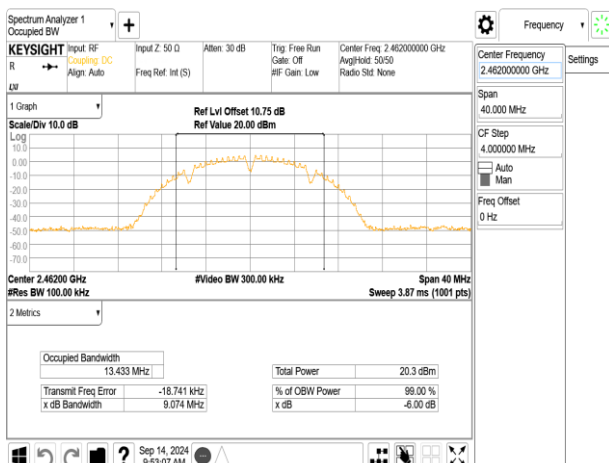
802.11b_20MHz_ChainB_2437MHz



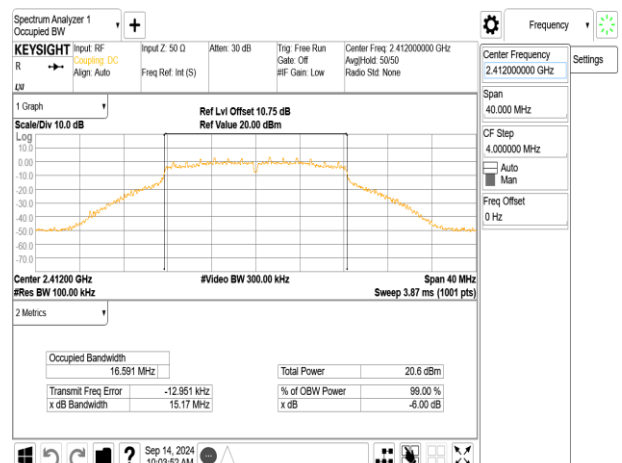
802.11b_20MHz_ChainB_2472MHz



802.11b_20MHz_ChainB_2462MHz



802.11g_20MHz_ChainB_2412MHz

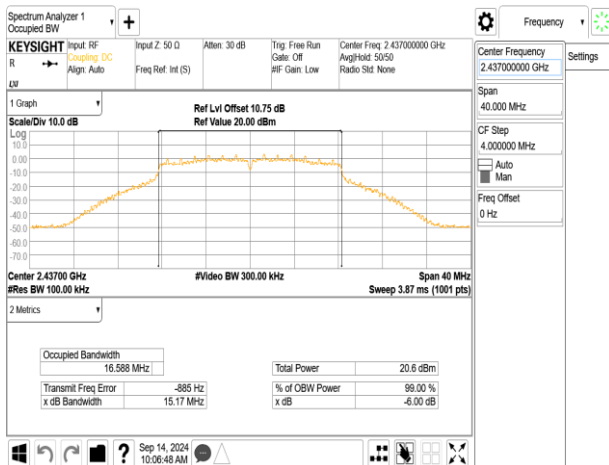


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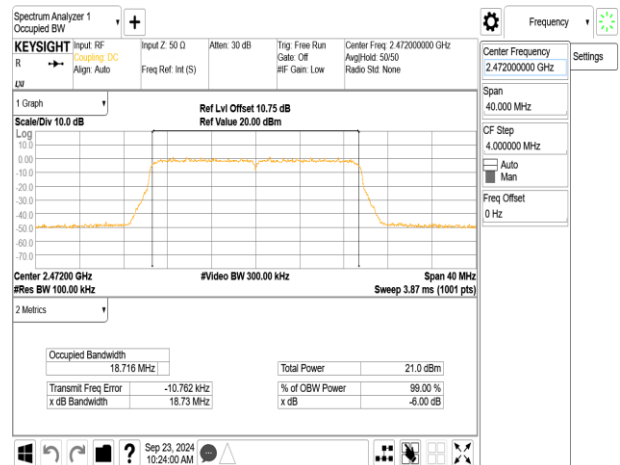
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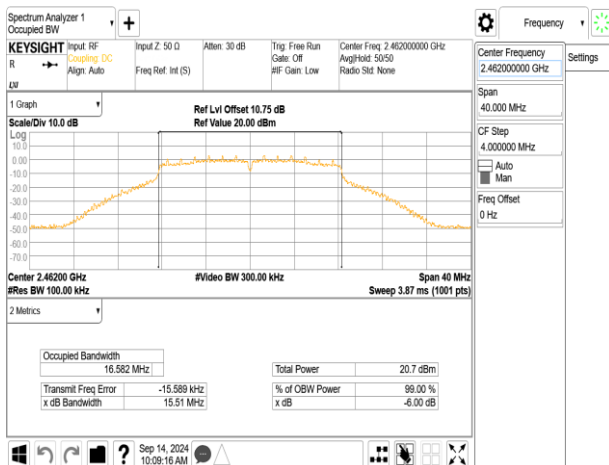
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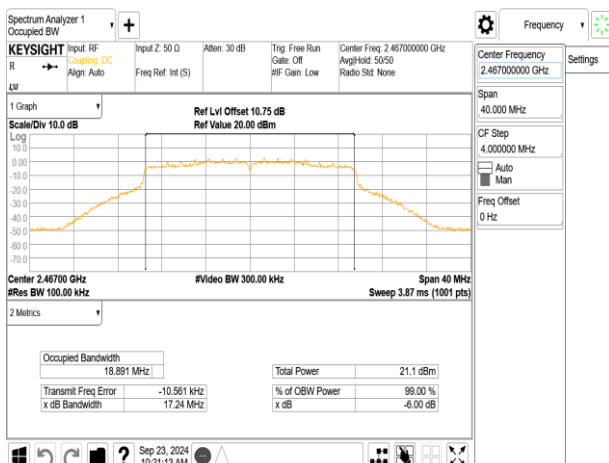
802.11g_20MHz_ChainB_2472MHz



802.11g_20MHz_ChainB_2462MHz



802.11g_20MHz_ChainB_2467MHz



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Mode: Chain A + Chain B

802.11n_HT_20M ChA

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15070.00	≥ 500	PASS
2437	15100.00	≥ 500	PASS
2462	15100.00	≥ 500	PASS
2467	15640.00	≥ 500	PASS
2472	17630.00	≥ 500	PASS

802.11n_HT_20M ChB

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15150.00	≥ 500	PASS
2437	15450.00	≥ 500	PASS
2462	15460.00	≥ 500	PASS
2467	15390.00	≥ 500	PASS
2472	17630.00	≥ 500	PASS

802.11n_HT_40M ChA

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35320.00	≥ 500	PASS
2437	35410.00	≥ 500	PASS
2452	34160.00	≥ 500	PASS
2457	35110.00	≥ 500	PASS
2462	36430.00	≥ 500	PASS

802.11n_HT_40M ChB

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35210.00	≥ 500	PASS
2437	35160.00	≥ 500	PASS
2452	33950.00	≥ 500	PASS
2457	35050.00	≥ 500	PASS
2462	36450.00	≥ 500	PASS

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802.11ax_HE_20M ChA

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2412	full	16720.00	≥ 500	PASS
2412	26/0	2099.00	≥ 500	PASS
2412	52/37	17050.00	≥ 500	PASS
2412	106/53	17190.00	≥ 500	PASS
2437	full	17580.00	≥ 500	PASS
2462	full	16730.00	≥ 500	PASS
2462	26/8	2001.00	≥ 500	PASS
2462	52/40	17040.00	≥ 500	PASS
2462	106/54	17130.00	≥ 500	PASS
2467	full	16500.00	≥ 500	PASS
2472	full	18680.00	≥ 500	PASS
2472	26/8	2012.00	≥ 500	PASS
2472	52/40	16910.00	≥ 500	PASS
2472	106/54	17050.00	≥ 500	PASS

802.11ax_HE_20M ChB

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2412	full	15650.00	≥ 500	PASS
2412	26/0	2095.00	≥ 500	PASS
2412	52/37	17000.00	≥ 500	PASS
2412	106/53	17140.00	≥ 500	PASS
2437	full	16910.00	≥ 500	PASS
2462	full	16140.00	≥ 500	PASS
2462	26/8	2065.00	≥ 500	PASS
2462	52/40	17000.00	≥ 500	PASS
2462	106/54	17180.00	≥ 500	PASS
2467	full	15180.00	≥ 500	PASS
2472	full	18640.00	≥ 500	PASS
2472	26/8	1982.00	≥ 500	PASS
2472	52/40	16960.00	≥ 500	PASS
2472	106/54	17060.00	≥ 500	PASS

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802.11ax_HE_40M ChA

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2422	full	37190.00	≥ 500	PASS
2422	242/61	18560.00	≥ 500	PASS
2437	full	36920.00	≥ 500	PASS
2452	full	37390.00	≥ 500	PASS
2452	242/62	18200.00	≥ 500	PASS
2457	full	37360.00	≥ 500	PASS
2462	full	38100.00	≥ 500	PASS
2462	242/62	18430.00	≥ 500	PASS

802.11ax_HE_40M ChB

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2422	full	37670.00	≥ 500	PASS
2422	242/61	18350.00	≥ 500	PASS
2437	full	37400.00	≥ 500	PASS
2452	full	37170.00	≥ 500	PASS
2452	242/62	18280.00	≥ 500	PASS
2457	full	37740.00	≥ 500	PASS
2462	full	38010.00	≥ 500	PASS
2462	242/62	18550.00	≥ 500	PASS

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802.11be_EHT_20M ChA

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2412	full	17000.00	≥ 500	PASS
2412	26/0	2088.00	≥ 500	PASS
2412	52/37	17050.00	≥ 500	PASS
2412	106/53	17190.00	≥ 500	PASS
2412	52+26 MRU1	6338.00	≥ 500	PASS
2412	106+26 MRU1	17150.00	≥ 500	PASS
2437	full	17270.00	≥ 500	PASS
2462	full	17800.00	≥ 500	PASS
2462	26/8	2061.00	≥ 500	PASS
2462	52/40	17010.00	≥ 500	PASS
2462	106/54	17140.00	≥ 500	PASS
2462	52+26 MRU3	6356.00	≥ 500	PASS
2462	106+26 MRU2	17240.00	≥ 500	PASS
2467	full	17560.00	≥ 500	PASS
2472	full	18780.00	≥ 500	PASS
2472	26/8	2044.00	≥ 500	PASS
2472	52/40	16950.00	≥ 500	PASS
2472	106/54	17050.00	≥ 500	PASS
2472	52+26 MRU3	6332.00	≥ 500	PASS
2472	106+26 MRU2	17130.00	≥ 500	PASS

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802.11be_EHT_20M ChB

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2412	full	16850.00	≥ 500	PASS
2412	26/0	2079.00	≥ 500	PASS
2412	52/37	17030.00	≥ 500	PASS
2412	106/53	17190.00	≥ 500	PASS
2412	52+26 MRU1	6362.00	≥ 500	PASS
2412	106+26 MRU1	10880.00	≥ 500	PASS
2437	full	17690.00	≥ 500	PASS
2462	full	17980.00	≥ 500	PASS
2462	26/8	2116.00	≥ 500	PASS
2462	52/40	17000.00	≥ 500	PASS
2462	106/54	17150.00	≥ 500	PASS
2462	52+26 MRU3	6296.00	≥ 500	PASS
2462	106+26 MRU2	10820.00	≥ 500	PASS
2467	full	17620.00	≥ 500	PASS
2472	full	18870.00	≥ 500	PASS
2472	26/8	2041.00	≥ 500	PASS
2472	52/40	16950.00	≥ 500	PASS
2472	106/54	17240.00	≥ 500	PASS
2472	52+26 MRU3	6182.00	≥ 500	PASS
2472	106+26 MRU2	10720.00	≥ 500	PASS

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802.11be_EHT_40M ChA

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2422	full	36330.00	≥ 500	PASS
2422	242/61	18420.00	≥ 500	PASS
2437	full	36270.00	≥ 500	PASS
2452	full	37270.00	≥ 500	PASS
2452	242/62	18110.00	≥ 500	PASS
2457	full	36740.00	≥ 500	PASS
2462	full	37890.00	≥ 500	PASS
2462	242/62	18590.00	≥ 500	PASS

802.11be_EHT_40M ChB

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2422	full	37560.00	≥ 500	PASS
2422	242/61	18430.00	≥ 500	PASS
2437	full	37280.00	≥ 500	PASS
2452	full	37560.00	≥ 500	PASS
2452	242/62	18480.00	≥ 500	PASS
2457	full	37140.00	≥ 500	PASS
2462	full	37980.00	≥ 500	PASS
2462	242/62	18550.00	≥ 500	PASS

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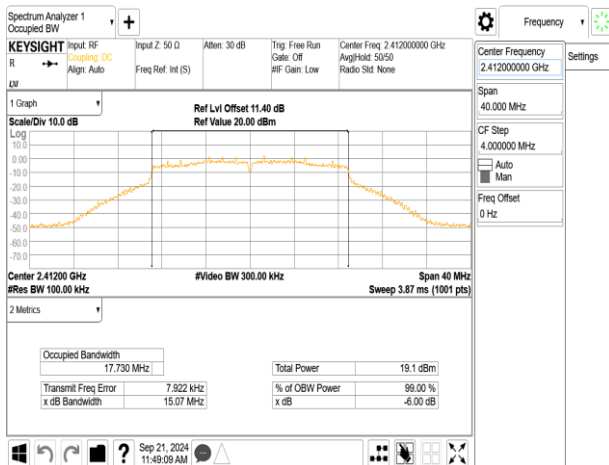
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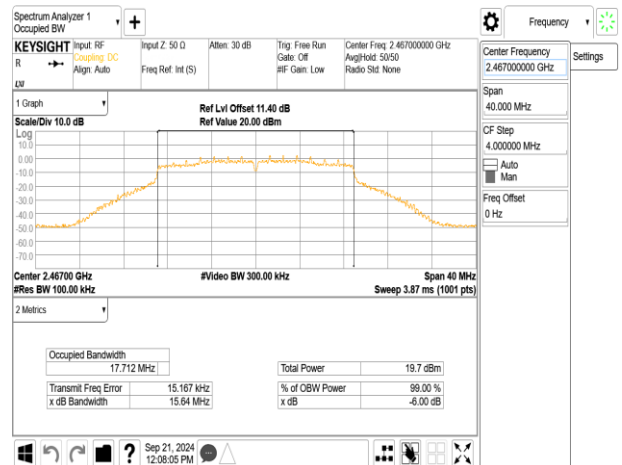
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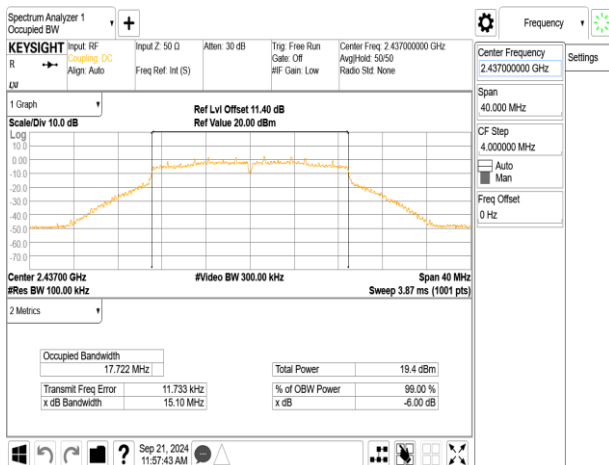
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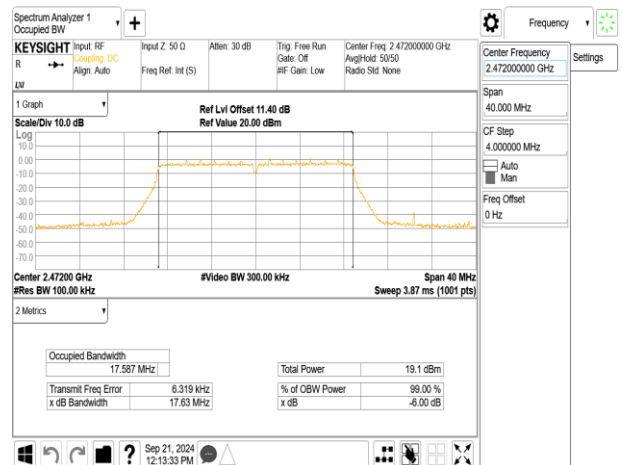
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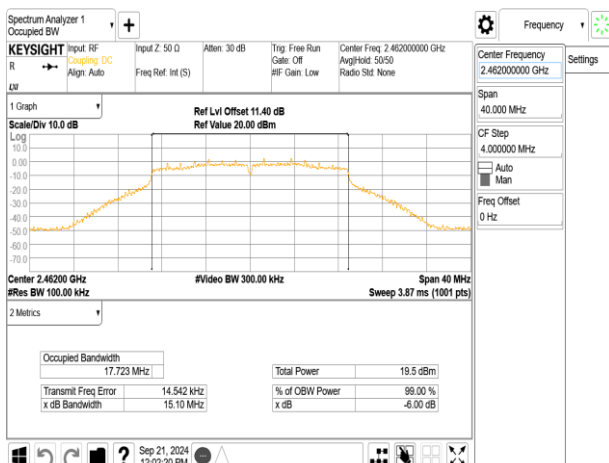
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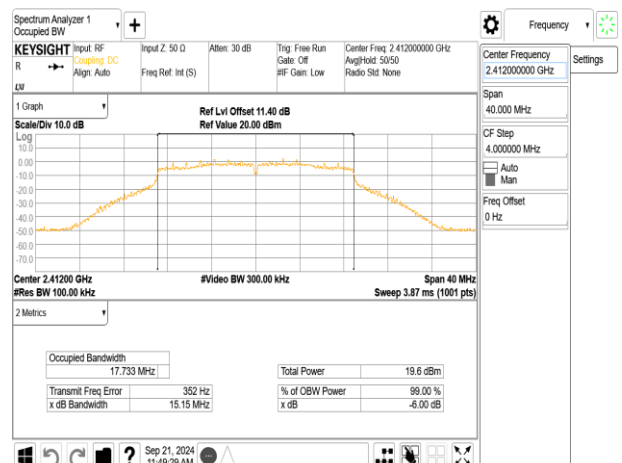
802.11n_20MHz_ChainA_2472MHz



802.11n_20MHz_ChainA_2462MHz



802.11n_20MHz_ChainB_2412MHz

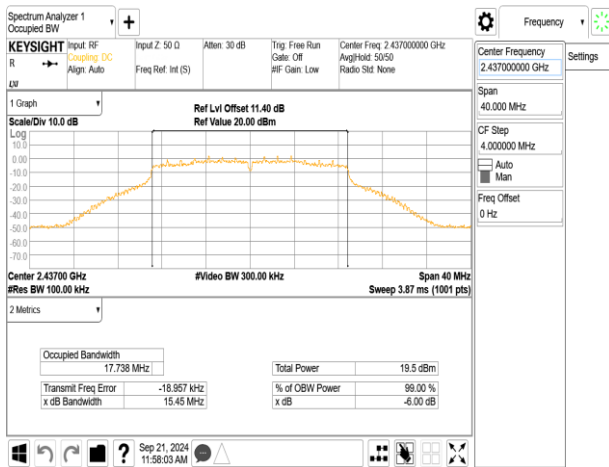


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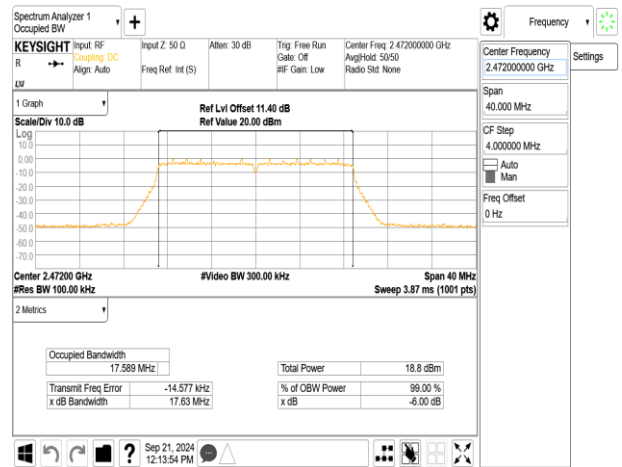
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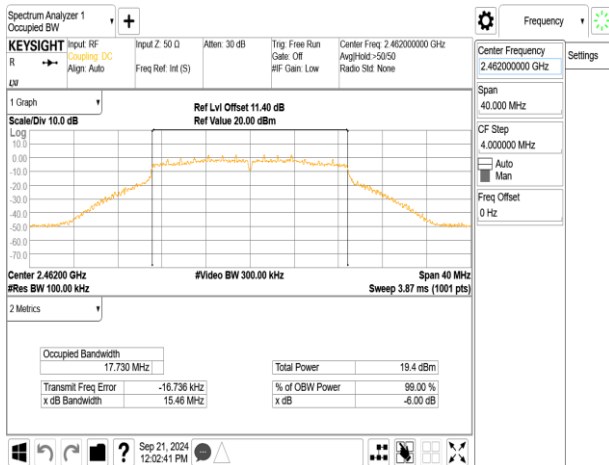
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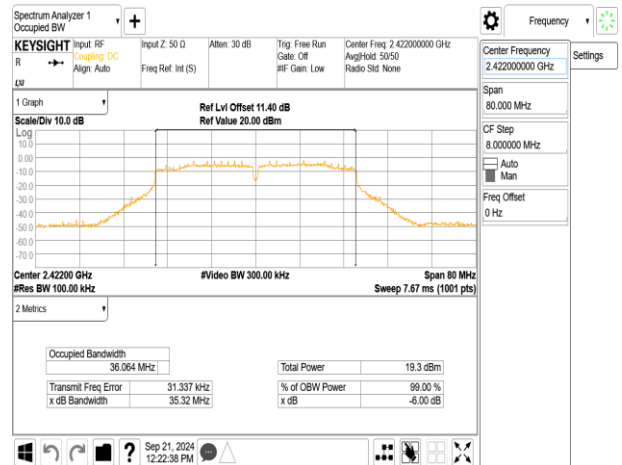
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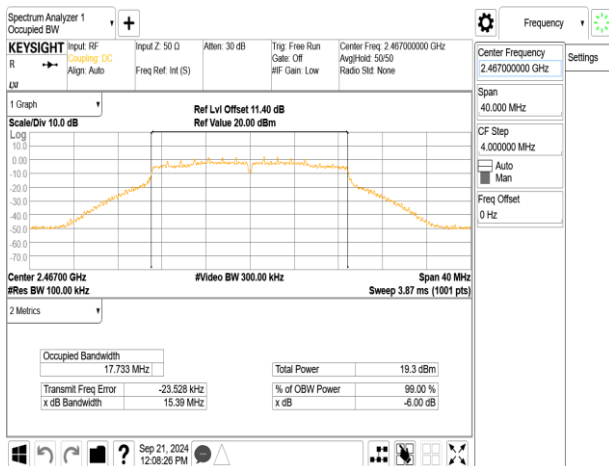
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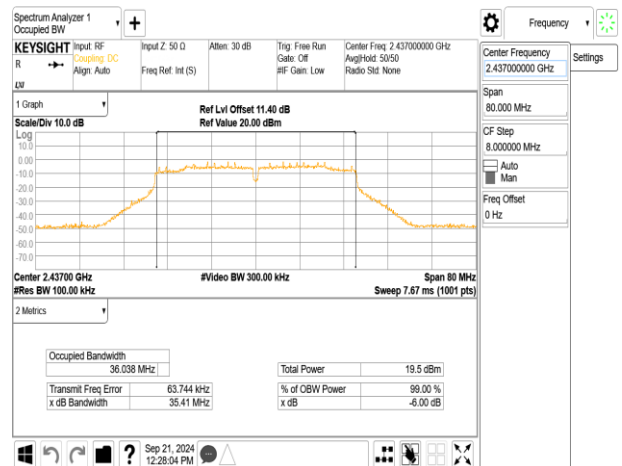
802.11n_40MHz_ChainA_2422MHz



802.11n_20MHz_ChainB_2467MHz



802.11n_40MHz_ChainA_2437MHz

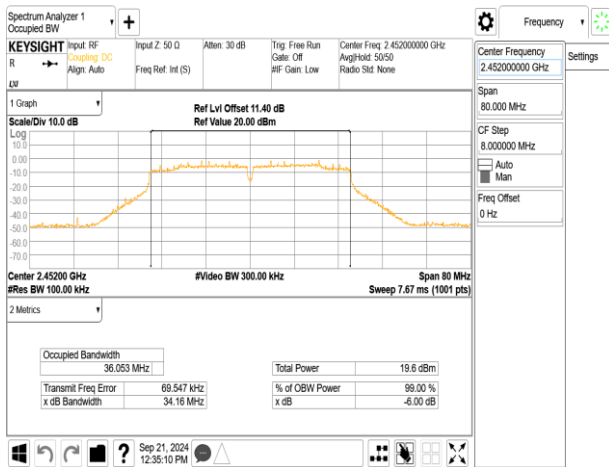


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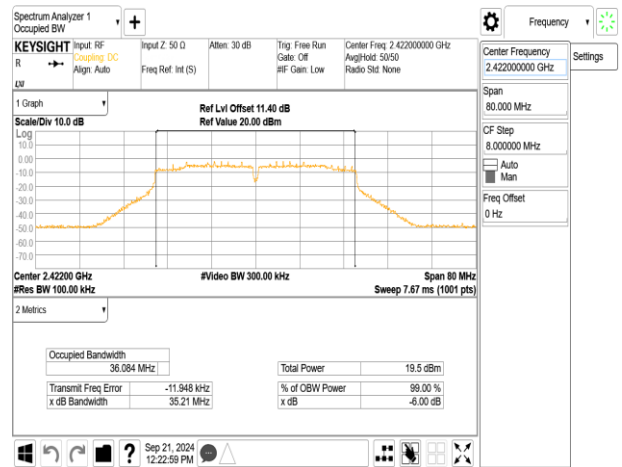
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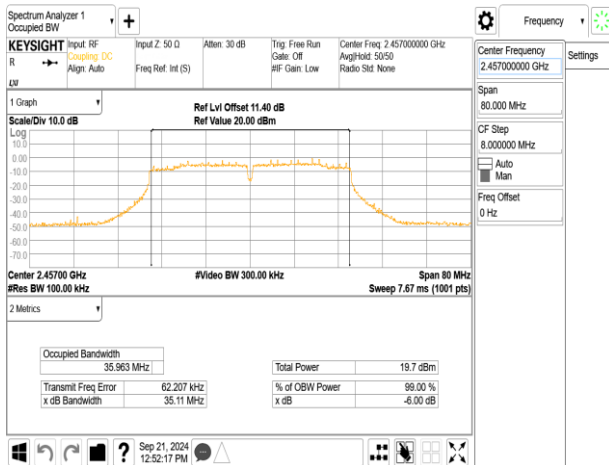
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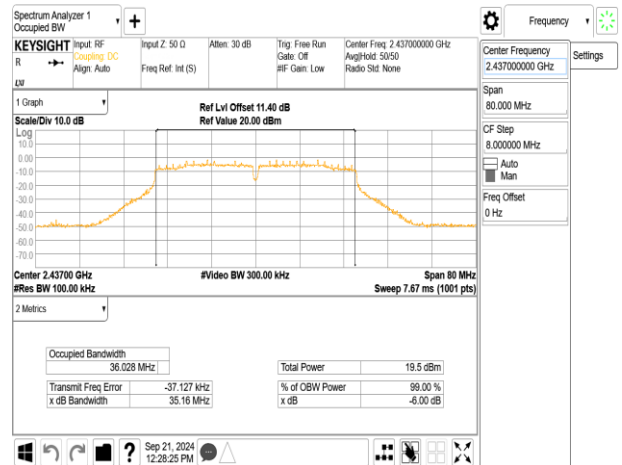
802.11n_40MHz_ChainB_2422MHz



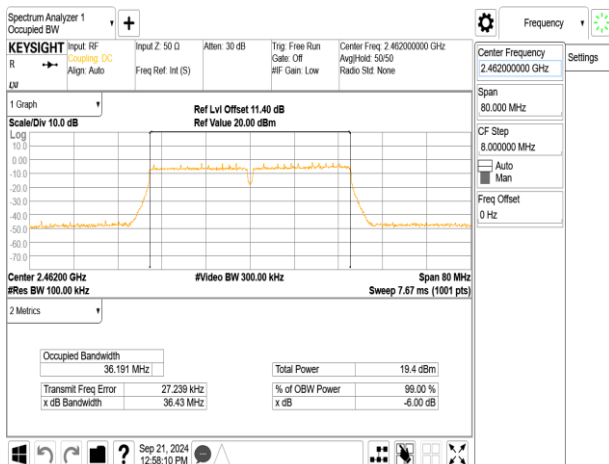
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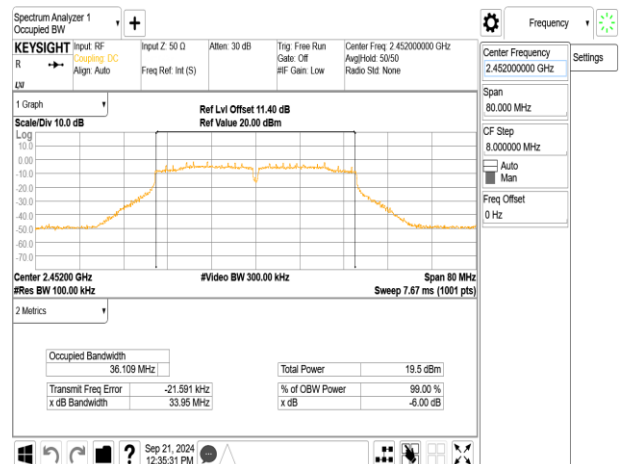
802.11n_40MHz_ChainB_2437MHz



802.11n_40MHz_ChainA_2462MHz



802.11n_40MHz_ChainB_2452MHz

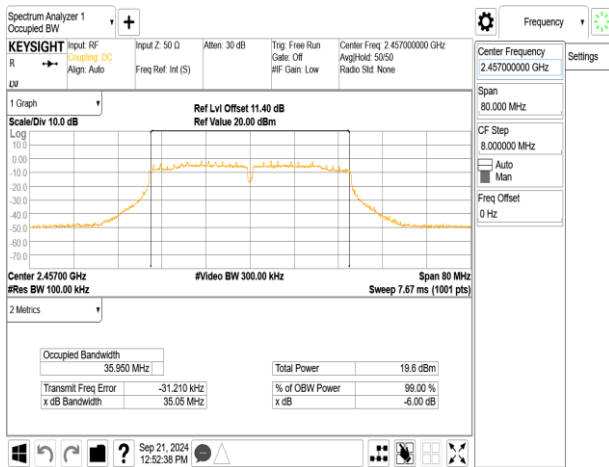


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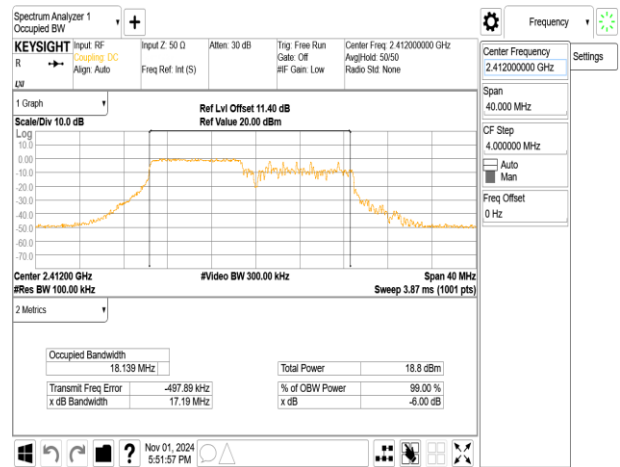
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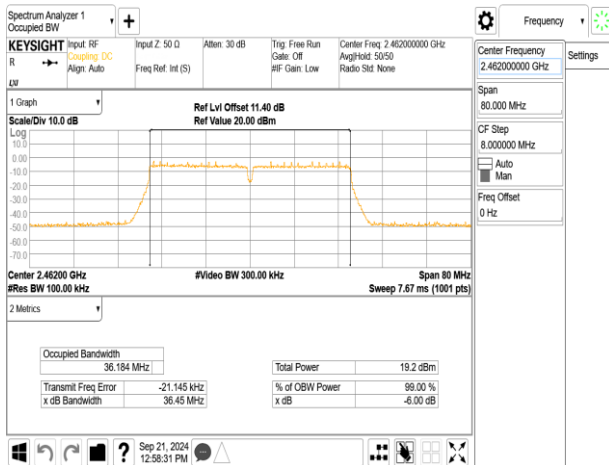
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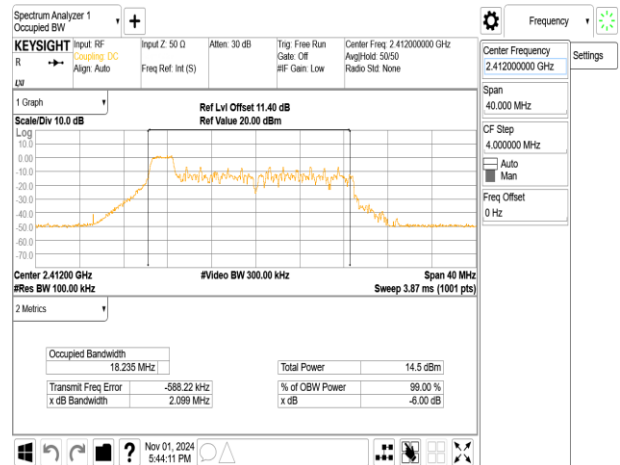
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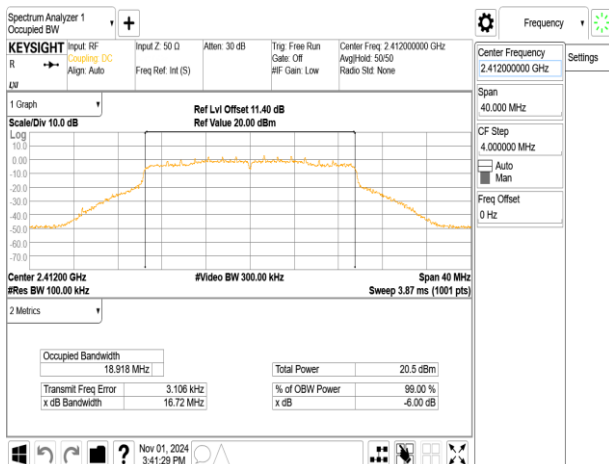
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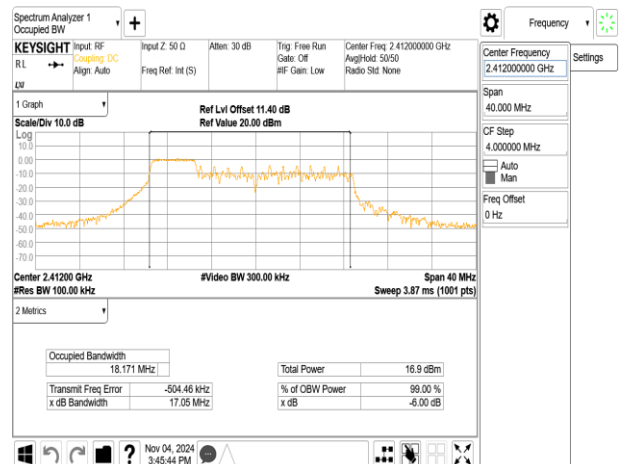
802.11ax_20MHz_ChainA_2412MHz_RU26_0



802.11ax_20MHz_ChainA_2412MHz



802.11ax_20MHz_ChainA_2412MHz_RU52_37



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