

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: Qualcomm Technologies, Inc.
5775 Morehouse Drive, San Diego, CA 92121-1714, United States

Manufacturer: Qualcomm Technologies, Inc.
5775 Morehouse Drive, San Diego, CA 92121-1714, United States

Product Name: Tri-Radio LGA Module for IoT applications

Brand Name: Qualcomm

Model No.: QCC743M-1

Report Number: TERF2501000458ER

FCC ID J9C-QCC743M1

Date of EUT Received: January 20, 2025

Date of Test: January 20, 2025 ~ June 6, 2025

Issue Date: June 20, 2025

Approved By _____

Jim Chang

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
TERF2501000458ER	00	Original	Jun. 20, 2025	Candice Li	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of HW SKU 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:	Tri-Radio LGA Module for IoT applications
Brand Name:	Qualcomm
Model No.:	QCC743M-1
HW SKU:	QCC743M-1B, QCC743M-1U, QCC743M-1P
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	02B102149C007B
Power Supply:	3.3 Vdc
Test Software (Name/Version)	Qconn RCT 1.8.9

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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	24.08	21.72	DSSS
802.11g	2412~2472	13	26.94	20.30	OFDM
802.11n_HT20	2412~2472	13	26.99	19.23	OFDM
802.11n_HT40	2422~2462	9	25.81	15.82	OFDM
802.11ax_HE20	2412~2472	13	26.99	19.19	OFDM
802.11ax_HE40	2422~2462	9	25.98	15.97	OFDM
802.11ax_HE20_RU	2412~2472	13	27.02	19.15	OFDMA
802.11ax_HE40_RU	2422~2462	9	26.75	17.93	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			
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 72.2Mbps			
		802.11n_HT40: up to 150Mbps			
		802.11ax_HE20: up to 143.4Mbps			
		802.11ax_HE40: up to 286.8Mbps			

1.3 HW SKU Difference Table

HW SKU	QCC743M-1B	QCC743M-1U	QCC743M-1P
Antenna type	1 type: PIFA (for PCB printed antenna)	3 types: PIFA, Monopole, Dipole (for antenna connector on board)	3 types: PIFA, Monopole, Dipole (for SiP module. It has RF pad connect to external PCB which has PCB ANT or RF connector)
RF connector	Switch connector	MHF4 connector	No
PCB dimension	12.28*17.28mm	12.28*12.28mm	12.28*12.28mm

Note: The QCC743M-1U, QCC743M-1B, and QCC743M-1P modules are designed to support two crystals (40 MHz and 32.768 kHz). However, depending on the hardware configuration, the modules may be shipped with either two crystals (40 MHz and 32.768 kHz) or only one crystal (40 MHz).

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1.4 Antenna Designation

Antenna Type	Antenna Part No.	Freq.	Peak Antenna Gain (dBi)
PIFA Antenna	QCC743M-1B	2.4GHz	2.49
PIFA Antenna	RFPCA441010EMABY01		3.19
Monopole Antenna	RFPCA501010EMABY01		3.12
Dipole Antenna	RFPCA521010EMABY01		3.37

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, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10:2013

1.6 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.

Temperature:	17-23	°C	Relative Humidity:	47-71	%
Test site	Conducted 2		Test Start:	01/22/2025	
Test Engineer:	Dannis Chen		Test Done:	06/06/2025	

1.7 Special Accessories

There are no special accessories used while test was conducted.

1.8 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

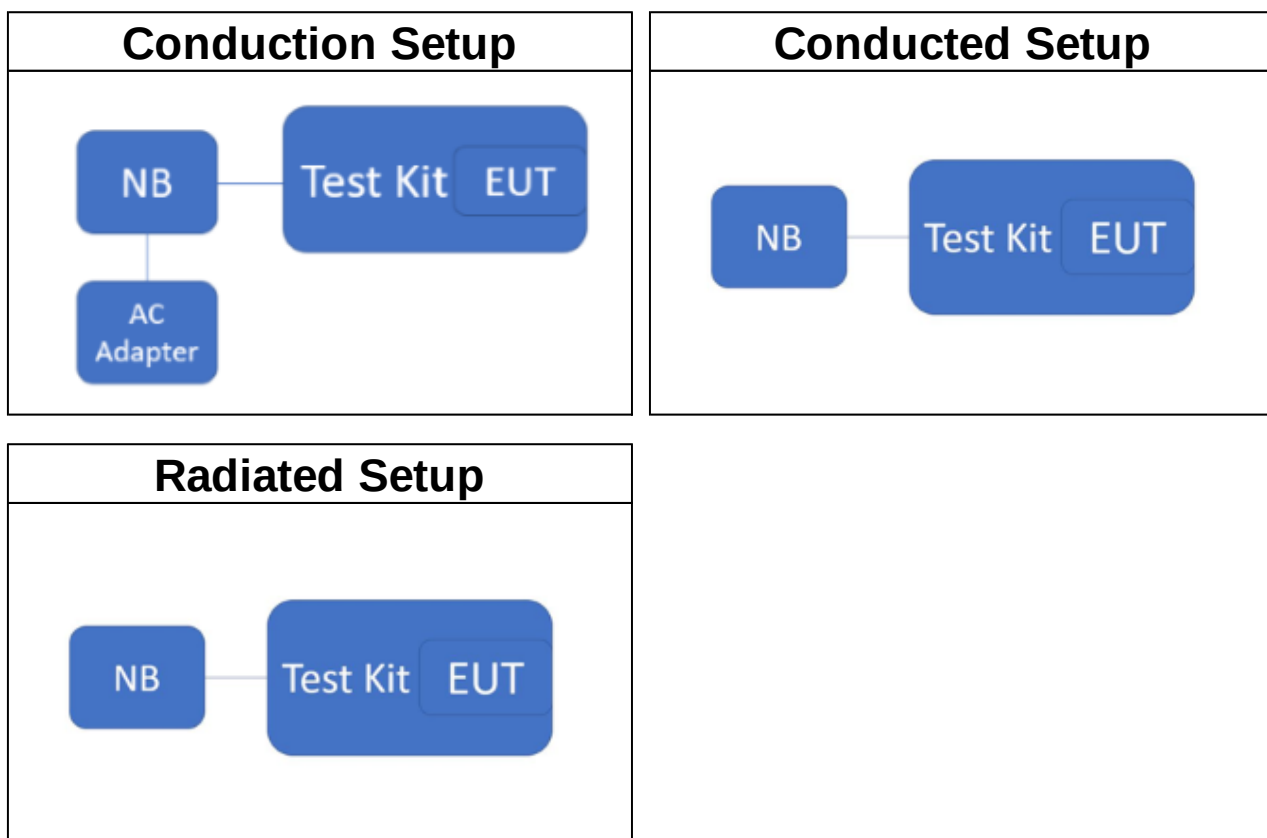
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
QCC743 carrier board	Fii	95.3562T00	N/A	N/A	N/A
USB3.0 to USB-C data cable	UGREEN	40888	N/A	N/A	N/A
Notebook	HP	HSN-Q35C-4	5CD2428X3N	N/A	N/A
AC Adapter	HP	TPN-LA16	N/A	N/A	N/A

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
QCC743 carrier board	Fii	95.3562T00	N/A	N/A	N/A
USB3.0 to USB-C data cable	UGREEN	40888	N/A	N/A	N/A
Notebook	Lenovo	T440P	PB-02Y6RK 14/07	N/A	N/A

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
QCC743 carrier board	Fii	95.3562T00	N/A	N/A	N/A
USB3.0 to USB-C data cable	UGREEN	40888	N/A	N/A	N/A
Notebook	HP	HSN-Q35C-4	5CD2428X3N	N/A	N/A

Spot check

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
QCC743 carrier board	Fii	95.3562T00	N/A	N/A	N/A
USB3.0 to USB-C data cable	UGREEN	40888	N/A	N/A	N/A
Type-C to USB Cable	Xiaomi	SJX10ZM	N/A	N/A	N/A
Notebook	HP	HSN-Q35C-4	5CD2428X3N	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 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.

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

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	Ch0
802.11g	1 to 13	1,2,3,4,5,6,7,8,9,10,11,12,13	OFDM	6	Ch0
802.11n_HT20	1 to 13	1,2,3,4,6,8,9,10,11,12,13	OFDM	MCS0	Ch0
802.11n_HT40	3 to 11	3,4,5,6,8,9,10,11	OFDM	MCS0	Ch0
802.11ax_HE20	1 to 13	1,2,3,4,5,6,7,8,9,10,11,12,13	OFDM	MCS0	Ch0
802.11ax_HE40	3 to 11	3,4,5,6,7,8,9,10,11	OFDM	MCS0	Ch0

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CONDUCTED TEST						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	1 to 13	1,2,3,4,5,6,7,8,9,10,11,12,13	OFDMA	242 26/0,26/8 52/37,52/40 106/53,106/54	MCS0	Ch0
802.11ax_HE40	3 to 11	3,4,5,6,7,8,9,10,11	OFDMA	484 242/61,242/62	MCS0	Ch0

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	ch0

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	ch0
802.11g	1 to 13	1,6,11,12,13	OFDM	6	ch0
802.11n_HT20	1 to 13	1,6,11,12,13	OFDM	MCS0	ch0
802.11n_HT40	3 to 11	3,6,9,10,11	OFDM	MCS0	ch0

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	MCS0	ch0
802.11ax_HE40	3 to 11	3,6,9,10,11	OFDMA	FULL RU	MCS0	ch0

Note:

1. 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, the worst case position was reported.
2. Radiated test was done with 50ohm terminator on antenna port.

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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
	+/-	4.1 dB	30MHz - 1000MHz
	+/-	3.37 dB	1GHz - 18GHz
	+/-	3.83 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.1 dB	30MHz - 1000MHz
	+/-	3.37 dB	1GHz - 18GHz
	+/-	3.83 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 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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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. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
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
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 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Mini-Circuits	BW-S10W2+	14	12/11/2024	12/10/2025
DC Block	Mini-Circuits	BLK-18-S+	31129	12/11/2024	12/10/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071541	07/08/2024	07/07/2025
Power Meter	Anritsu	ML2496A	2138003	10/09/2024	10/08/2025
Power Sensor	Anritsu	MA2411B	1911393	10/09/2024	10/08/2025
Power Sensor	Anritsu	MA2411B	1911394	10/09/2024	10/08/2025
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 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
4G High Pass Filter	WI	WHKX4.0	22	12/11/2024	12/10/2025
Attenuator	Mini-Circuits	BW-S10W2+	16	12/11/2024	12/10/2025
Band Reject Filter 2400-2483.5	EWT	EWT-14-0166	M3	12/11/2024	12/10/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/09/2024	08/08/2025
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM- 1000 +SUCOFLEX 104PEA +EMC107-SM-SM- 1500 +SUCOFLEX 106	RX Cable 9K-18G (221110+MY4251/4P EA+221106+76096/6)	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	ESCI 7	100759	08/28/2024	08/27/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071541	07/08/2024	07/07/2025
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2024	09/22/2025
Loop Antenna	COM-POWER	AL-130R	10160104	12/19/2024	12/18/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980868	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC184045SEE	9080939	08/30/2024	08/29/2025
Pre-Amplifier	HP	8447D	2944A07676	08/30/2024	08/29/2025
Site Cal	SGS	SAC 3	N/A	08/30/2024	08/29/2025
SMA Termination	RF Microwave WOKEN	WTER-18S2	N/A	N/A	N/A
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

Spot check

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
4G High Pass Filter	WI	WHKX4.0	22	12/11/2024	12/10/2025
Attenuator	Mini-Circuits	BW-S10W2+	16	12/11/2024	12/10/2025
Band Reject Filter 2400-2483.5	EWT	EWT-14-0166	M2	12/11/2024	12/10/2025
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM- 1000 +SUCOFLEX 104PEA +EMC107-SM-SM- 1500 +SUCOFLEX 106	RX Cable 9K-18G (221110+MY4251/4P EA+221106+76096/6)	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	MY63440386	02/05/2025	02/04/2026
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2024	09/22/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980868	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC184045SEE	9080939	08/30/2024	08/29/2025
Site Cal	SGS	SAC 3	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

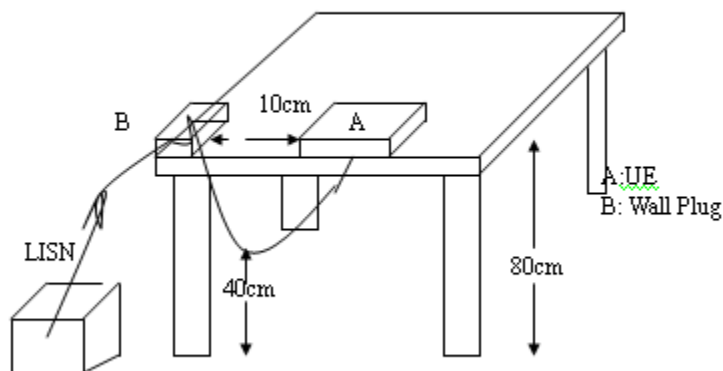
Note

- 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

Note1: 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 :TERF2501000458ER

Operation Mode :WLAN 2.4G

Power :120V/60Hz

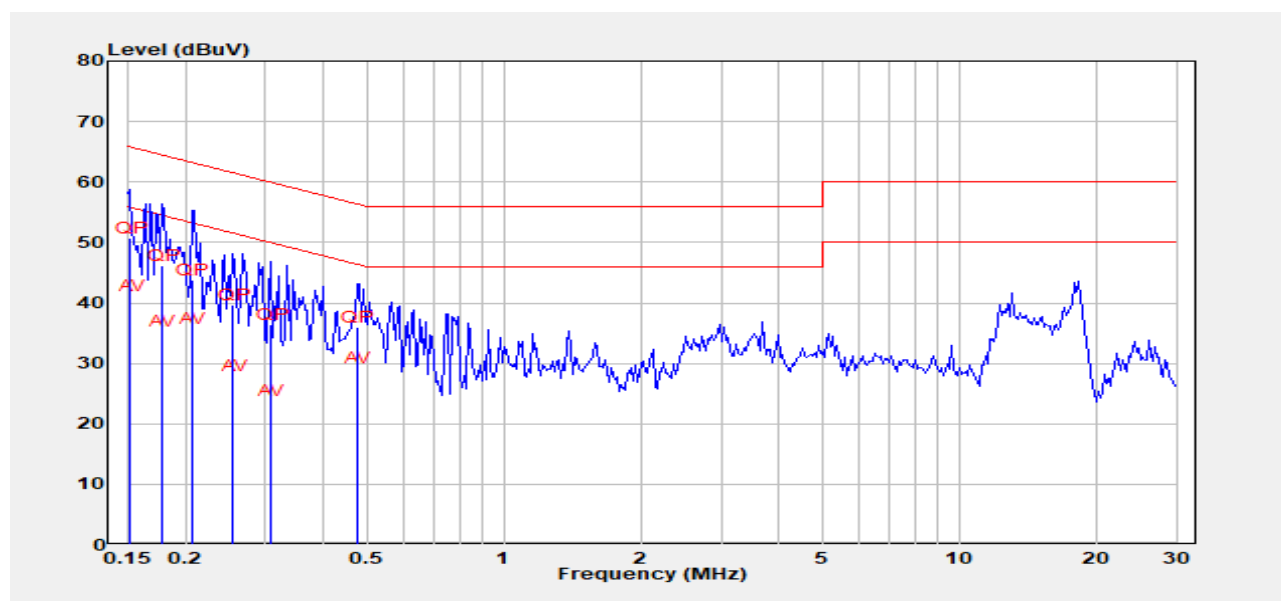
Probe :L

Test Site :Conduction 1

Test Date :2025-02-13

Temp./Humi. :21.3°C/61%

Engineer :Nick Lin



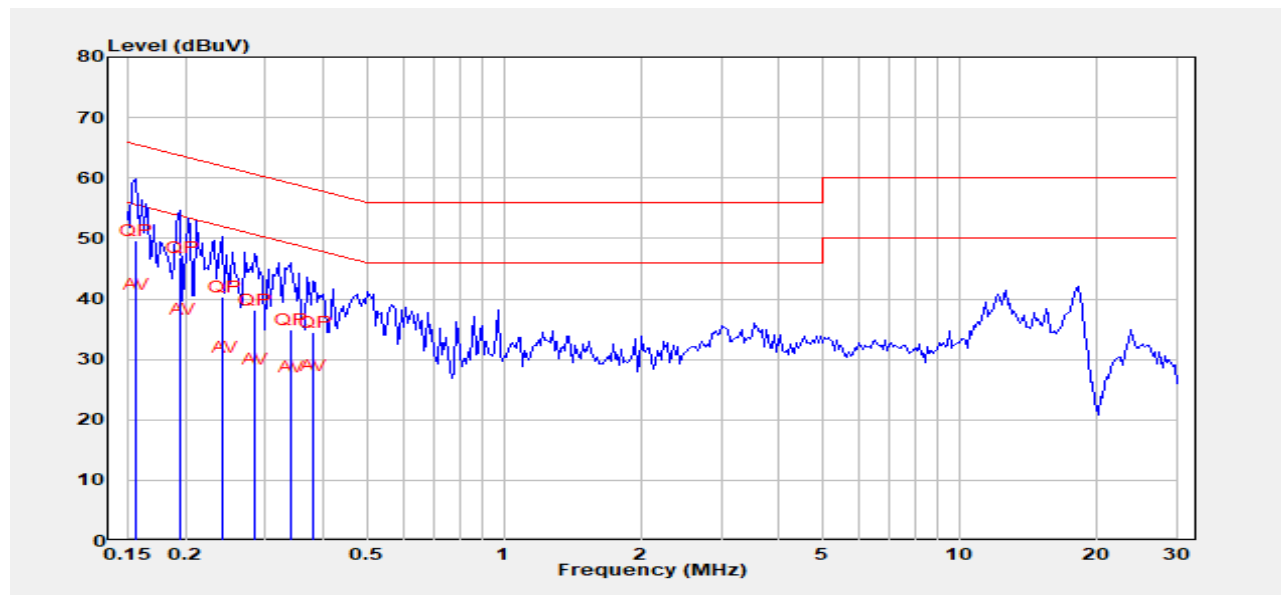
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
MHz	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.152	Average	31.02	10.13	41.15	55.91	-14.76
0.152	QP	40.58	10.13	50.71	65.91	-15.20
0.178	Average	25.23	10.13	35.36	54.59	-19.23
0.178	QP	35.97	10.13	46.10	64.59	-18.49
0.206	Average	25.73	10.13	35.86	53.36	-17.50
0.206	QP	33.77	10.13	43.90	63.36	-19.46
0.255	Average	17.87	10.14	28.01	51.60	-23.59
0.255	QP	29.43	10.14	39.57	61.60	-22.03
0.308	Average	13.62	10.14	23.76	50.02	-26.25
0.308	QP	26.33	10.14	36.47	60.02	-23.54
0.476	Average	19.09	10.16	29.25	46.41	-17.15
0.476	QP	25.76	10.16	35.92	56.41	-20.48

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Report Number :TERF2501000458ER
Operation Mode :WLAN 2.4G
Power :120V/60Hz
Probe :N

Test Site :Conduction 1
Test Date :2025-02-13
Temp./Humi. :21.3°C/61%
Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level	FS				
MHz	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.155	Average	30.67	10.12	40.79	55.74	-14.95
0.155	QP	39.57	10.12	49.69	65.74	-16.05
0.195	Average	26.54	10.12	36.66	53.80	-17.14
0.195	QP	36.71	10.12	46.83	63.80	-16.97
0.242	Average	20.17	10.13	30.30	52.04	-21.74
0.242	QP	30.22	10.13	40.35	62.04	-21.69
0.283	Average	18.33	10.14	28.47	50.72	-22.25
0.283	QP	27.98	10.14	38.12	60.72	-22.60
0.339	Average	17.03	10.14	27.17	49.22	-22.05
0.339	QP	24.77	10.14	34.91	59.22	-24.31
0.381	Average	17.11	10.15	27.26	48.25	-21.00
0.381	QP	24.27	10.15	34.42	58.25	-23.84

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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.

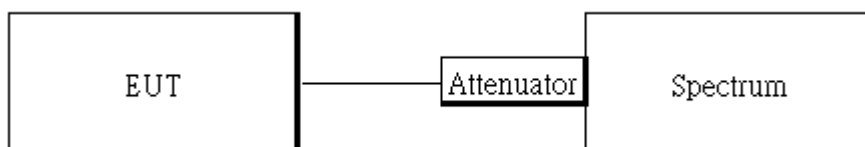
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Note:

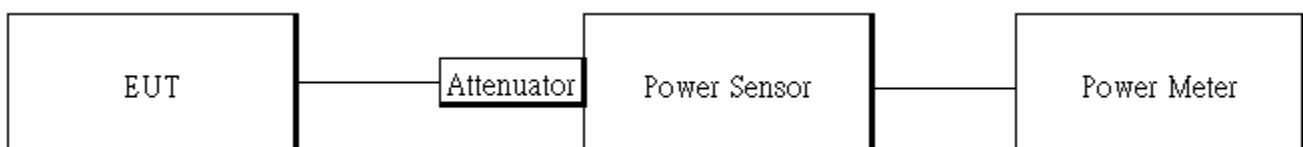
When the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

8.2 Test Setup

8.2.1 Duty Cycle



8.2.2 Output Power:



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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.

*** 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		99.11	0.04	1.00	0.01
802.11g		98.25	0.08	1.98	0.01
802.11n_20		98.29	0.07	1.94	0.01
802.11n_40		97.13	0.13	3.69	4.00
802.11ax_20		99.74	0.01	0.26	0.01
802.11ax_40		99.54	0.02	0.51	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	242 RU	95.91	0.18	0.39	1.00
	26 RU	97.53	0.11	0.23	1.00
	52 RU	98.18	0.08	0.19	0.01
	106 RU	97.76	0.10	0.23	1.00
802.11ax_40	484 RU	92.06	0.36	0.86	1.00
	242 RU	96.27	0.17	0.39	1.00

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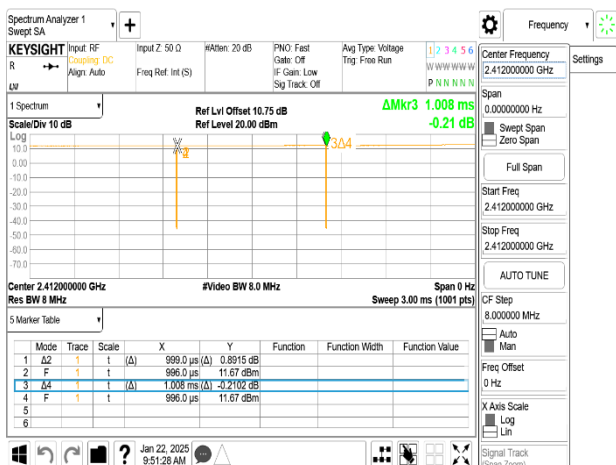
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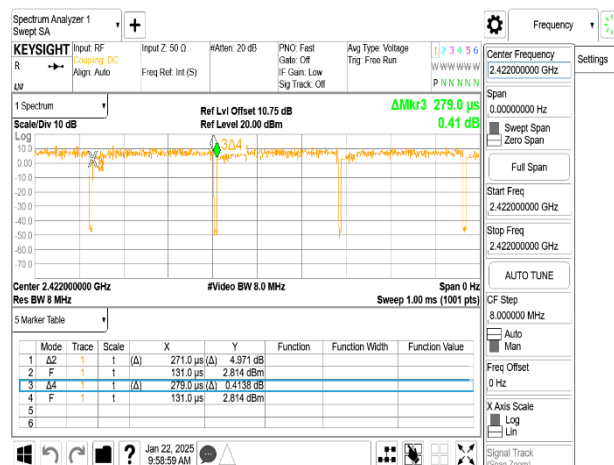
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8.4.2 Duty Cycle test plots

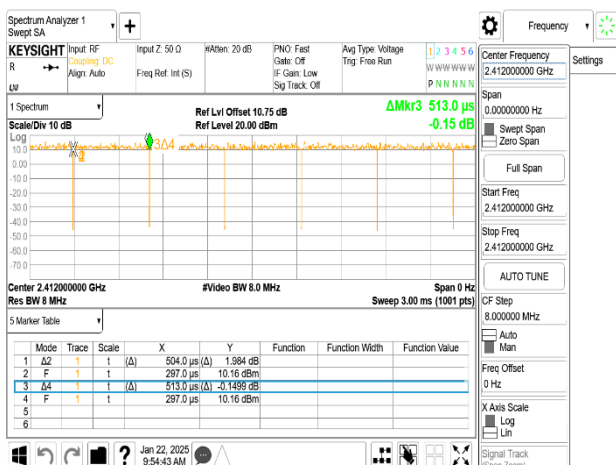
802.11b_20MHz_Chain0_2412MHz



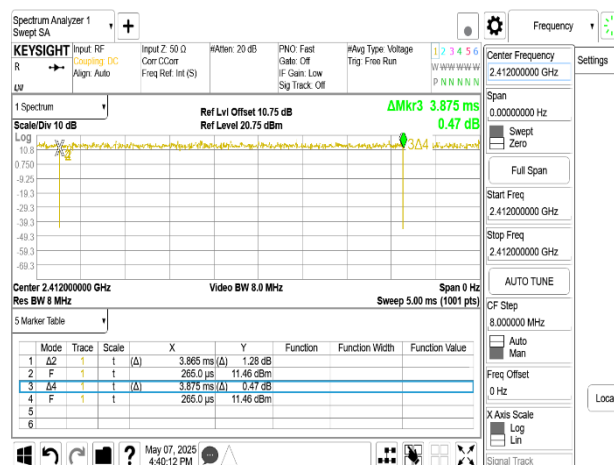
802.11n_40MHz_Chain0_2422MHz



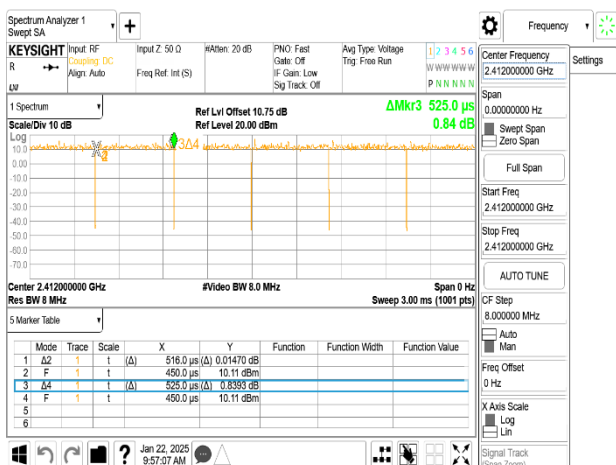
802.11g_20MHz_Chain0_2412MHz



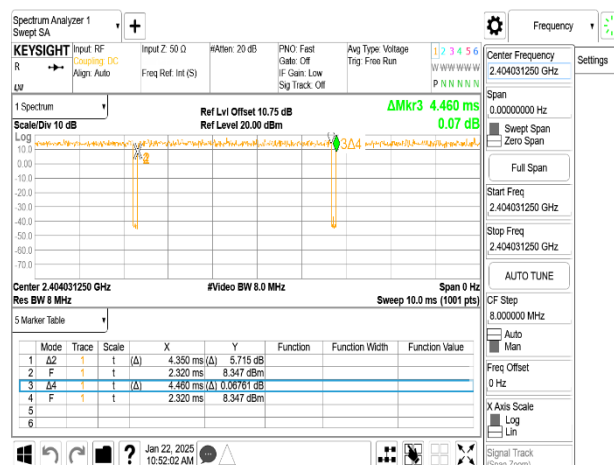
802.11ax_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2412MHz



802.11ax_20MHz_Chain0_2412MHz_RU26_0

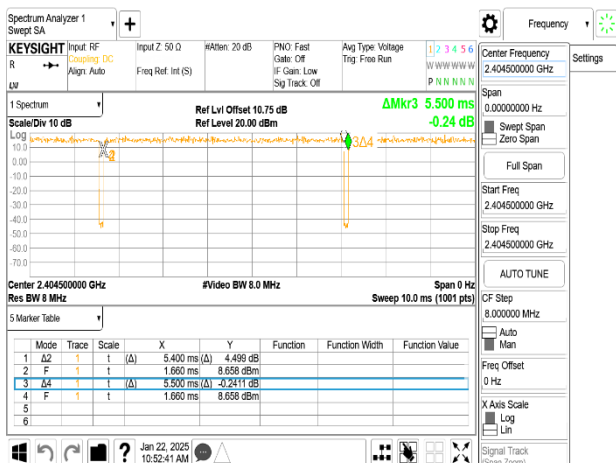


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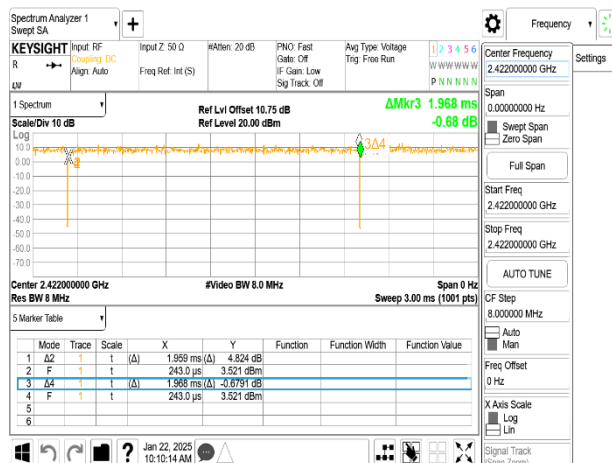
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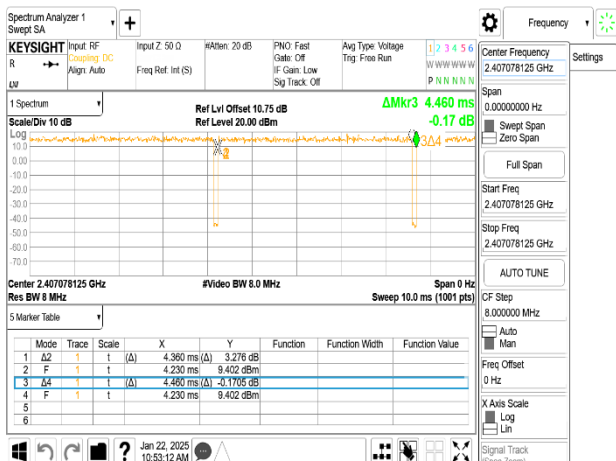
802.11ax_20MHz_Chain0_2412MHz_RU52_37



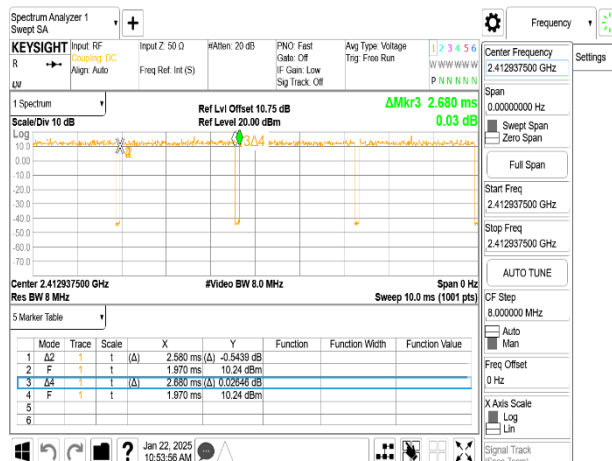
802.11ax_40MHz_Chain0_2422MHz



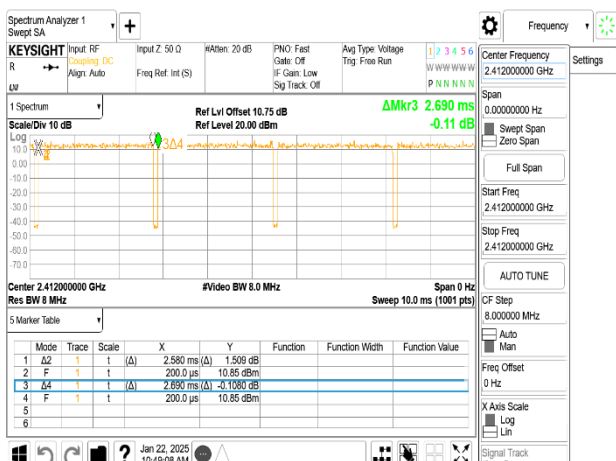
802.11ax_20MHz_Chain0_2412MHz_RU106_53



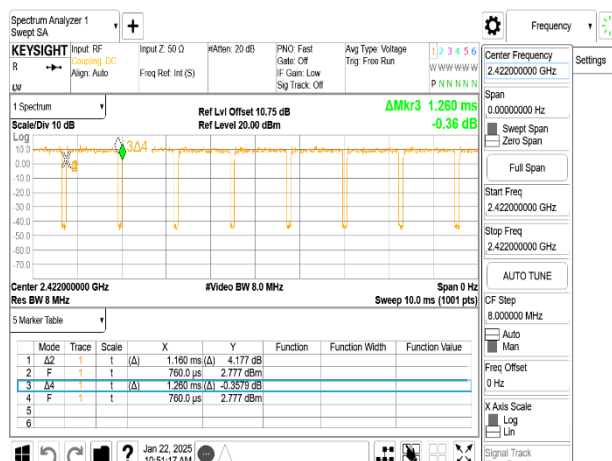
802.11ax_40MHz_Chain0_2422MHz_RU242_61



802.11ax_20MHz_Chain0_2412MHz_RU242



802.11ax_40MHz_Chain0_2422MHz_RU484



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8.4.3 Output Power

802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	21	255.86	24.08	30.00	PASS
6	2437	1	21	240.99	23.82	30.00	PASS
11	2462	1	21	243.78	23.87	30.00	PASS
12	2467	1	13	36.90	15.67	30.00	PASS
13	2472	1	12	28.77	14.59	30.00	PASS
802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	21	148.55	21.72	30.00	PASS
6	2437	1	21	142.19	21.53	30.00	PASS
11	2462	1	21	142.52	21.54	30.00	PASS
12	2467	1	13	21.37	13.30	30.00	PASS
13	2472	1	12	16.67	12.22	30.00	PASS

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802.11g Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	15	342.77	25.35	30.00	PASS
2	2417	6	16	389.94	25.91	30.00	PASS
3	2422	6	18	436.52	26.40	30.00	PASS
4	2427	6	19	469.89	26.72	30.00	PASS
5	2432	6	20	494.31	26.94	30.00	PASS
6	2437	6	20	492.04	26.92	30.00	PASS
7	2442	6	20	493.17	26.93	30.00	PASS
8	2447	6	19	448.75	26.52	30.00	PASS
9	2452	6	18	430.53	26.34	30.00	PASS
10	2457	6	17	394.46	25.96	30.00	PASS
11	2462	6	15	314.77	24.98	30.00	PASS
12	2467	6	14	276.06	24.41	30.00	PASS
13	2472	6	11	144.88	21.61	30.00	PASS

802.11g Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	15	35.13	15.46	30.00	PASS
2	2417	6	16	42.23	16.26	30.00	PASS
3	2422	6	18	68.81	18.38	30.00	PASS
4	2427	6	19	86.63	19.38	30.00	PASS
5	2432	6	20	107.07	20.30	30.00	PASS
6	2437	6	20	99.92	20.00	30.00	PASS
7	2442	6	20	101.31	20.06	30.00	PASS
8	2447	6	19	79.92	19.03	30.00	PASS
9	2452	6	18	63.92	18.06	30.00	PASS
10	2457	6	17	51.13	17.09	30.00	PASS
11	2462	6	15	31.02	14.92	30.00	PASS
12	2467	6	14	25.68	14.10	30.00	PASS
13	2472	6	11	13.05	11.16	30.00	PASS

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802.11n_HT_20M Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	15	374.11	25.73	30.00	PASS
2	2417	MCS0	16	417.83	26.21	30.00	PASS
3	2422	MCS0	18	453.94	26.57	30.00	PASS
4	2427	MCS0	19	498.88	26.98	30.00	PASS
6	2437	MCS0	19	497.74	26.97	30.00	PASS
8	2447	MCS0	19	500.03	26.99	30.00	PASS
9	2452	MCS0	18	440.55	26.44	30.00	PASS
10	2457	MCS0	17	406.44	26.09	30.00	PASS
11	2462	MCS0	15	352.37	25.47	30.00	PASS
12	2467	MCS0	13	274.79	24.39	30.00	PASS
13	2472	MCS0	11	163.31	22.13	30.00	PASS

802.11n_HT_20M Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	15	34.32	15.35	30.00	PASS
2	2417	MCS0	16	41.26	16.15	30.00	PASS
3	2422	MCS0	18	67.68	18.30	30.00	PASS
4	2427	MCS0	19	83.85	19.23	30.00	PASS
6	2437	MCS0	19	81.00	19.08	30.00	PASS
8	2447	MCS0	19	81.75	19.12	30.00	PASS
9	2452	MCS0	18	61.45	17.88	30.00	PASS
10	2457	MCS0	17	49.37	16.93	30.00	PASS
11	2462	MCS0	15	30.44	14.83	30.00	PASS
12	2467	MCS0	13	20.58	13.13	30.00	PASS
13	2472	MCS0	11	12.84	11.08	30.00	PASS

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802.11n_HT_40M Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	13	203.24	23.08	30.00	PASS
4	2427	MCS0	15	282.49	24.51	30.00	PASS
5	2432	MCS0	16	341.98	25.34	30.00	PASS
6	2437	MCS0	16	341.19	25.33	30.00	PASS
8	2447	MCS0	16	381.07	25.81	30.00	PASS
9	2452	MCS0	15	278.61	24.45	30.00	PASS
10	2457	MCS0	15	277.33	24.43	30.00	PASS
11	2462	MCS0	13	195.88	22.92	30.00	PASS

802.11n_HT_40M Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	13	20.03	13.02	30.00	PASS
4	2427	MCS0	15	30.45	14.84	30.00	PASS
5	2432	MCS0	16	38.16	15.82	30.00	PASS
6	2437	MCS0	16	37.81	15.78	30.00	PASS
8	2447	MCS0	16	37.90	15.79	30.00	PASS
9	2452	MCS0	15	28.82	14.60	30.00	PASS
10	2457	MCS0	15	28.88	14.61	30.00	PASS
11	2462	MCS0	13	18.95	12.78	30.00	PASS

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802.11ax_HE_20M Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	15	352.37	25.47	30.00	PASS
2	2417	MCS0	16	364.75	25.62	30.00	PASS
3	2422	MCS0	17	500.03	26.99	30.00	PASS
4	2427	MCS0	18	432.51	26.36	30.00	PASS
5	2432	MCS0	19	498.88	26.98	30.00	PASS
6	2437	MCS0	19	497.74	26.97	30.00	PASS
7	2442	MCS0	19	500.03	26.99	30.00	PASS
8	2447	MCS0	18	427.56	26.31	30.00	PASS
9	2452	MCS0	16	433.51	26.37	30.00	PASS
10	2457	MCS0	16	388.15	25.89	30.00	PASS
11	2462	MCS0	14	279.90	24.47	30.00	PASS
12	2467	MCS0	13	248.31	23.95	30.00	PASS
13	2472	MCS0	11	148.25	21.71	30.00	PASS

802.11ax_HE_20M Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	15	31.85	15.03	30.00	PASS
2	2417	MCS0	16	40.19	16.04	30.00	PASS
3	2422	MCS0	17	51.66	17.13	30.00	PASS
4	2427	MCS0	18	66.09	18.20	30.00	PASS
5	2432	MCS0	19	83.01	19.19	30.00	PASS
6	2437	MCS0	19	80.19	19.04	30.00	PASS
7	2442	MCS0	19	81.31	19.10	30.00	PASS
8	2447	MCS0	18	62.97	17.99	30.00	PASS
9	2452	MCS0	16	40.19	16.04	30.00	PASS
10	2457	MCS0	16	40.47	16.07	30.00	PASS
11	2462	MCS0	14	25.07	13.99	30.00	PASS
12	2467	MCS0	13	20.05	13.02	30.00	PASS
13	2472	MCS0	11	12.74	11.05	30.00	PASS

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802.11ax_HE_40M Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	14	322.11	25.08	30.00	PASS
4	2427	MCS0	14	319.89	25.05	30.00	PASS
5	2432	MCS0	15	355.63	25.51	30.00	PASS
6	2437	MCS0	16	396.28	25.98	30.00	PASS
7	2442	MCS0	15	349.95	25.44	30.00	PASS
8	2447	MCS0	14	302.69	24.81	30.00	PASS
9	2452	MCS0	14	314.05	24.97	30.00	PASS
10	2457	MCS0	13	301.30	24.79	30.00	PASS
11	2462	MCS0	12	213.30	23.29	30.00	PASS

802.11ax_HE_40M Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	14	24.83	13.95	30.00	PASS
4	2427	MCS0	14	25.59	14.08	30.00	PASS
5	2432	MCS0	15	31.12	14.93	30.00	PASS
6	2437	MCS0	16	39.54	15.97	30.00	PASS
7	2442	MCS0	15	29.44	14.69	30.00	PASS
8	2447	MCS0	14	24.77	13.94	30.00	PASS
9	2452	MCS0	14	24.43	13.88	30.00	PASS
10	2457	MCS0	13	19.45	12.89	30.00	PASS
11	2462	MCS0	12	14.83	11.71	30.00	PASS

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802.11ax_HE_20M_RU Ch0								
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	242	13	278.61	24.45	30.00	PASS
			26/0	13	276.06	24.41	30.00	PASS
			52/37	13	277.97	24.44	30.00	PASS
			106/53	13	276.69	24.42	30.00	PASS
2	2417	MCS0	242	16	414.00	26.17	30.00	PASS
			26/0	14	372.39	25.71	30.00	PASS
			52/37	15	374.97	25.74	30.00	PASS
			106/53	16	399.94	26.02	30.00	PASS
3	2422	MCS0	242	17	417.83	26.21	30.00	PASS
			26/0	14	299.23	24.76	30.00	PASS
			52/37	15	382.82	25.83	30.00	PASS
			106/53	18	494.31	26.94	30.00	PASS
4	2427	MCS0	242	18	472.06	26.74	30.00	PASS
			26/0	14	304.79	24.84	30.00	PASS
			52/37	15	470.98	26.73	30.00	PASS
			106/53	19	490.91	26.91	30.00	PASS
5	2432	MCS0	242	19	497.74	26.97	30.00	PASS
			26/0	14	300.61	24.78	30.00	PASS
			52/37	19	498.88	26.98	30.00	PASS
6	2437	MCS0	242	19	494.31	26.94	30.00	PASS
			26/0	19	473.15	26.75	30.00	PASS
			26/8	19	488.65	26.89	30.00	PASS
			52/40	19	503.50	27.02	30.00	PASS
7	2442	MCS0	242	19	497.74	26.97	30.00	PASS
			26/8	13	274.16	24.38	30.00	PASS
			52/40	18	470.98	26.73	30.00	PASS
8	2447	MCS0	242	18	451.86	26.55	30.00	PASS
			26/8	13	273.53	24.37	30.00	PASS
			52/40	15	347.54	25.41	30.00	PASS
			106/54	19	484.17	26.85	30.00	PASS
9	2452	MCS0	242	17	424.62	26.28	30.00	PASS
			26/8	13	272.90	24.36	30.00	PASS
			52/40	15	357.27	25.53	30.00	PASS
			106/54	18	460.26	26.63	30.00	PASS
10	2457	MCS0	242	16	399.02	26.01	30.00	PASS
			26/8	13	273.53	24.37	30.00	PASS
			52/40	15	356.45	25.52	30.00	PASS
			106/54	16	399.02	26.01	30.00	PASS
11	2462	MCS0	242	14	295.80	24.71	30.00	PASS
			26/8	13	266.69	24.26	30.00	PASS
			52/40	14	306.90	24.87	30.00	PASS
			106/54	13	271.02	24.33	30.00	PASS
12	2467	MCS0	242	9	104.95	20.21	30.00	PASS
			26/8	10	135.83	21.33	30.00	PASS
			52/40	9	104.23	20.18	30.00	PASS
			106/54	9	106.17	20.26	30.00	PASS
13	2472	MCS0	242	6	51.29	17.10	30.00	PASS
			26/8	6	51.52	17.12	30.00	PASS
			52/40	6	51.64	17.13	30.00	PASS
			106/54	6	51.64	17.13	30.00	PASS

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802.11ax_HE_20M_RU Ch0								
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	242	13	20.66	13.15	30.00	PASS
			26/0	13	18.36	12.64	30.00	PASS
			52/37	13	18.84	12.75	30.00	PASS
			106/53	13	20.08	13.03	30.00	PASS
2	2417	MCS0	242	16	40.84	16.11	30.00	PASS
			26/0	14	24.65	13.92	30.00	PASS
			52/37	15	29.58	14.71	30.00	PASS
			106/53	16	39.16	15.93	30.00	PASS
3	2422	MCS0	242	17	51.42	17.11	30.00	PASS
			26/0	14	23.54	13.72	30.00	PASS
			52/37	15	31.99	15.05	30.00	PASS
			106/53	18	68.84	18.38	30.00	PASS
4	2427	MCS0	242	18	69.20	18.40	30.00	PASS
			26/0	14	25.28	14.03	30.00	PASS
			52/37	15	30.48	14.84	30.00	PASS
			106/53	19	80.88	19.08	30.00	PASS
5	2432	MCS0	242	19	82.25	19.15	30.00	PASS
			26/0	14	23.93	13.79	30.00	PASS
			52/37	19	76.91	18.86	30.00	PASS
6	2437	MCS0	242	19	80.01	19.03	30.00	PASS
			26/0	19	75.49	18.78	30.00	PASS
			26/8	19	77.24	18.88	30.00	PASS
			52/40	19	80.70	19.07	30.00	PASS
7	2442	MCS0	242	19	80.75	19.07	30.00	PASS
			26/8	13	19.05	12.80	30.00	PASS
			52/40	18	60.25	17.80	30.00	PASS
8	2447	MCS0	242	18	62.11	17.93	30.00	PASS
			26/8	13	18.70	12.72	30.00	PASS
			52/40	15	29.99	14.77	30.00	PASS
			106/54	19	79.77	19.02	30.00	PASS
9	2452	MCS0	242	17	50.37	17.02	30.00	PASS
			26/8	13	18.70	12.72	30.00	PASS
			52/40	15	29.85	14.75	30.00	PASS
			106/54	18	62.35	17.95	30.00	PASS
10	2457	MCS0	242	16	40.01	16.02	30.00	PASS
			26/8	13	18.74	12.73	30.00	PASS
			52/40	15	29.92	14.76	30.00	PASS
			106/54	16	39.89	16.01	30.00	PASS
11	2462	MCS0	242	14	25.18	14.01	30.00	PASS
			26/8	13	18.70	12.72	30.00	PASS
			52/40	14	23.82	13.77	30.00	PASS
			106/54	13	19.99	13.01	30.00	PASS
12	2467	MCS0	242	9	8.07	9.07	30.00	PASS
			26/8	10	9.20	9.64	30.00	PASS
			52/40	9	7.60	8.81	30.00	PASS
			106/54	9	8.01	9.04	30.00	PASS
13	2472	MCS0	242	6	4.13	6.16	30.00	PASS
			26/8	6	3.69	5.67	30.00	PASS
			52/40	6	3.78	5.77	30.00	PASS
			106/54	6	4.02	6.04	30.00	PASS

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802.11ax_HE_40M_RU Ch0								
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	484	11	290.40	24.63	30.00	PASS
			242/61	14	363.92	25.61	30.00	PASS
4	2427	MCS0	484	12	331.89	25.21	30.00	PASS
			242/61	14	365.59	25.63	30.00	PASS
5	2432	MCS0	484	15	431.52	26.35	30.00	PASS
			242/61	14	366.44	25.64	30.00	PASS
6	2437	MCS0	484	13	383.71	25.84	30.00	PASS
			242/61	18	473.15	26.75	30.00	PASS
			242/62	15	399.02	26.01	30.00	PASS
7	2442	MCS0	484	12	347.54	25.41	30.00	PASS
			242/62	13	340.41	25.32	30.00	PASS
8	2447	MCS0	484	12	340.41	25.32	30.00	PASS
			242/62	13	327.34	25.15	30.00	PASS
9	2452	MCS0	484	11	287.74	24.59	30.00	PASS
			242/62	13	332.66	25.22	30.00	PASS
10	2457	MCS0	484	9	205.12	23.12	30.00	PASS
			242/62	12	285.10	24.55	30.00	PASS
11	2462	MCS0	484	6	99.08	19.96	30.00	PASS
			242/62	6	69.98	18.45	30.00	PASS
802.11ax_HE_40M_RU Ch0								
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	484	11	12.50	10.97	30.00	PASS
			242/61	14	24.63	13.92	30.00	PASS
4	2427	MCS0	484	12	15.66	11.95	30.00	PASS
			242/61	14	24.41	13.88	30.00	PASS
5	2432	MCS0	484	15	31.47	14.98	30.00	PASS
			242/61	14	25.21	14.02	30.00	PASS
6	2437	MCS0	484	13	19.68	12.94	30.00	PASS
			242/61	18	62.02	17.93	30.00	PASS
			242/62	15	31.44	14.98	30.00	PASS
7	2442	MCS0	484	12	15.27	11.84	30.00	PASS
			242/62	13	19.12	12.82	30.00	PASS
8	2447	MCS0	484	12	15.24	11.83	30.00	PASS
			242/62	13	19.17	12.83	30.00	PASS
9	2452	MCS0	484	11	11.99	10.79	30.00	PASS
			242/62	13	19.30	12.86	30.00	PASS
10	2457	MCS0	484	9	7.73	8.88	30.00	PASS
			242/62	12	15.12	11.80	30.00	PASS
11	2462	MCS0	484	6	3.84	5.84	30.00	PASS
			242/62	6	3.90	5.91	30.00	PASS

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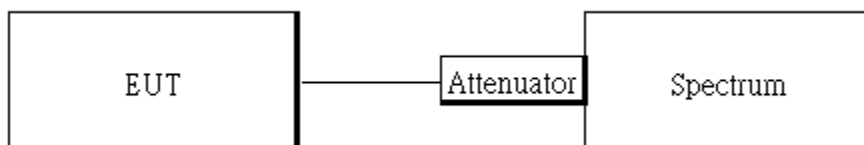
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9 EMISSION BANDWIDTH MEASUREMENT

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

802.11b Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	9157	≥ 500	PASS
2437	9173	≥ 500	PASS
2462	9176	≥ 500	PASS
2467	9168	≥ 500	PASS
2472	9160	≥ 500	PASS

802.11ax_HE_20M Ch0

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2412	full	18880	≥ 500	PASS
2437	full	18940	≥ 500	PASS
2462	full	18880	≥ 500	PASS
2467	full	18950	≥ 500	PASS
2472	full	18980	≥ 500	PASS

802.11g Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16320	≥ 500	PASS
2437	16130	≥ 500	PASS
2462	16320	≥ 500	PASS
2467	16320	≥ 500	PASS
2472	16320	≥ 500	PASS

802.11ax_HE_40M Ch0

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2422	full	37810	≥ 500	PASS
2437	full	37870	≥ 500	PASS
2452	full	37810	≥ 500	PASS
2457	full	37660	≥ 500	PASS
2462	full	37670	≥ 500	PASS

802.11n_HT_20M Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16340	≥ 500	PASS
2437	16610	≥ 500	PASS
2462	16970	≥ 500	PASS
2467	16940	≥ 500	PASS
2472	16950	≥ 500	PASS

802.11ax_HE_20M_RU Ch0

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2412	242	19000	≥ 500	PASS
2437	242	19000	≥ 500	PASS
2462	242	18990	≥ 500	PASS
2467	242	19020	≥ 500	PASS
2472	242	18940	≥ 500	PASS

802.11n_HT_40M Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35210	≥ 500	PASS
2437	35200	≥ 500	PASS
2452	35210	≥ 500	PASS
2457	35210	≥ 500	PASS
2462	35210	≥ 500	PASS

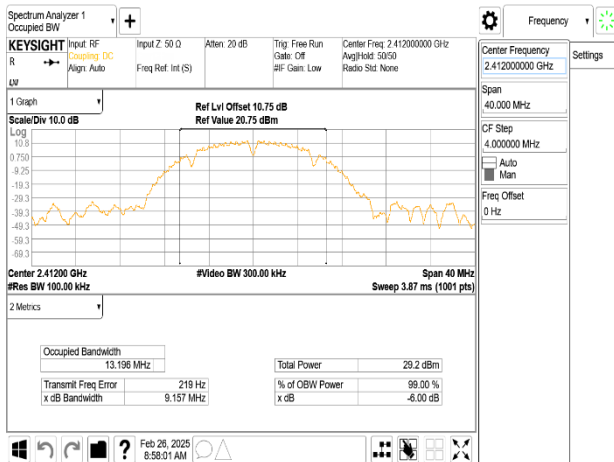
802.11ax_HE_40M_RU Ch0

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2422	484	38000	≥ 500	PASS
2437	484	37920	≥ 500	PASS
2452	484	38010	≥ 500	PASS
2457	484	38060	≥ 500	PASS
2462	484	37920	≥ 500	PASS

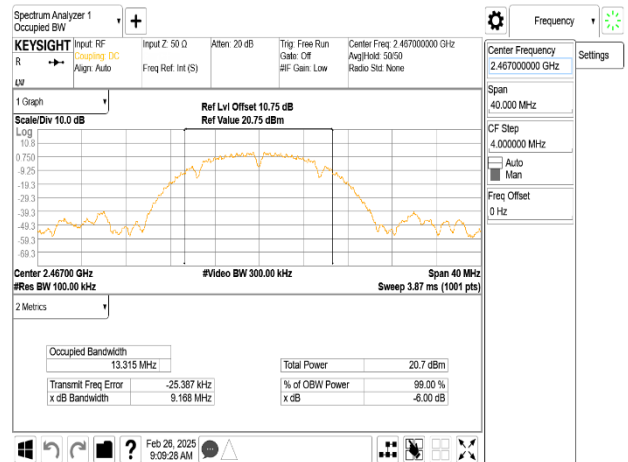
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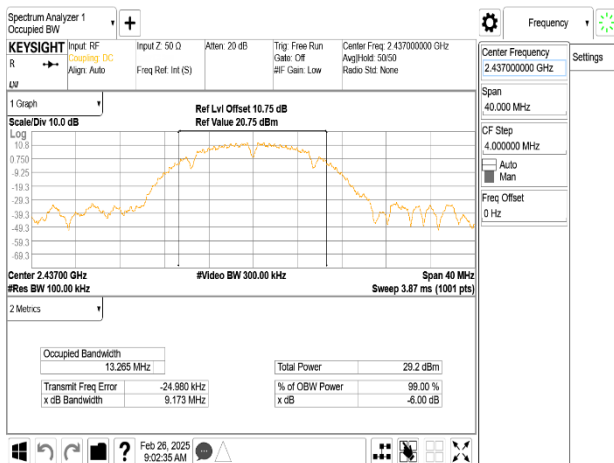
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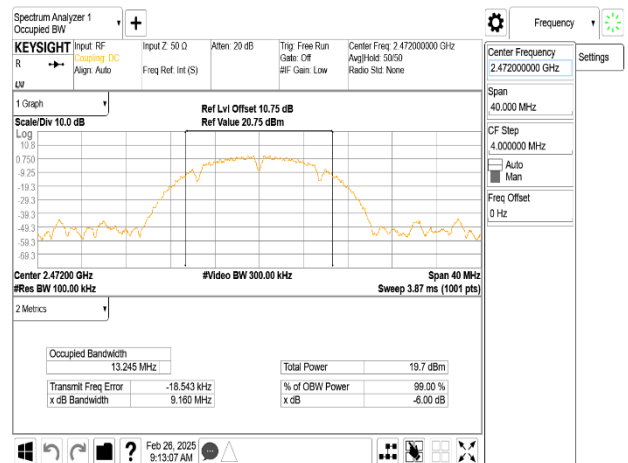
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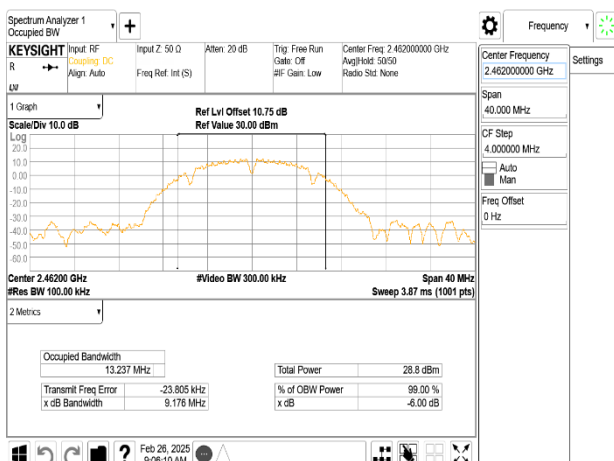
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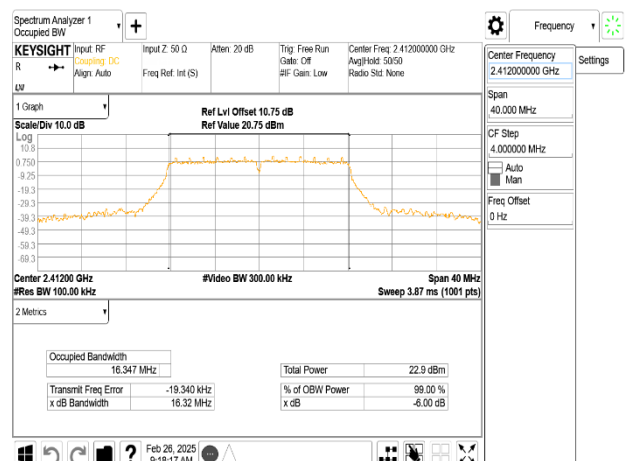
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802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2412MHz

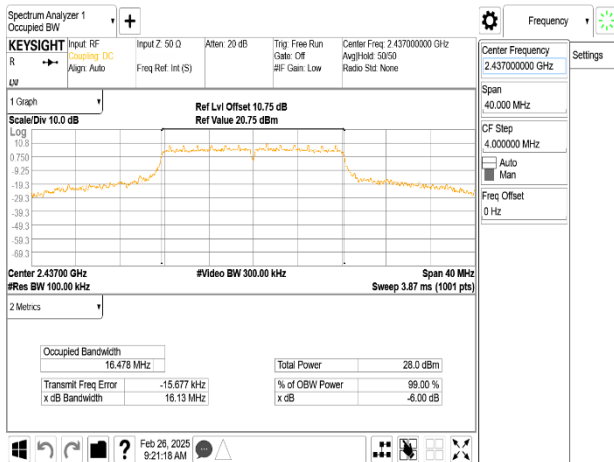


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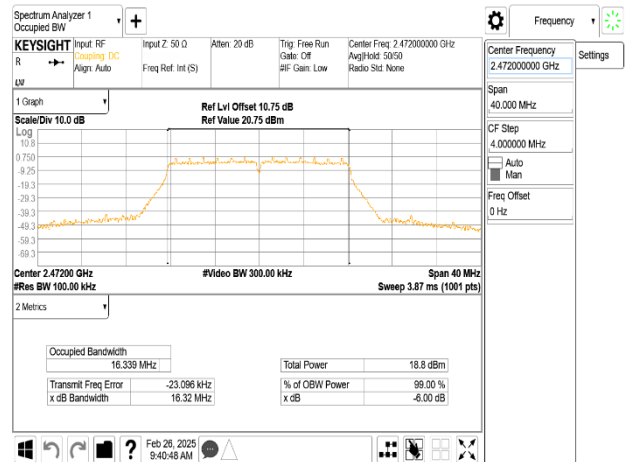
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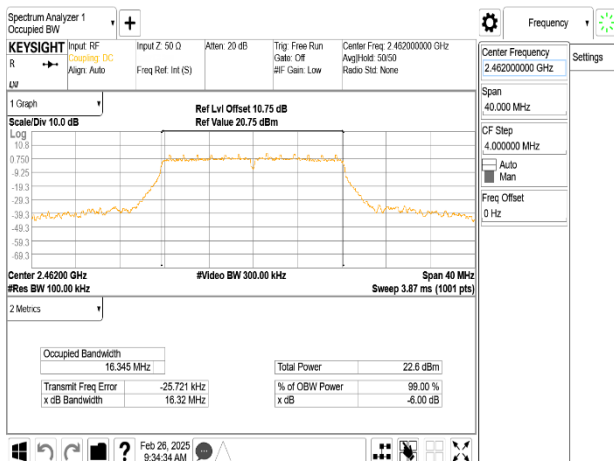
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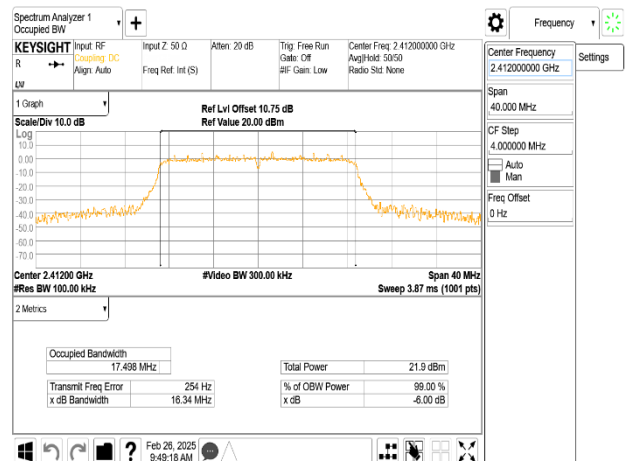
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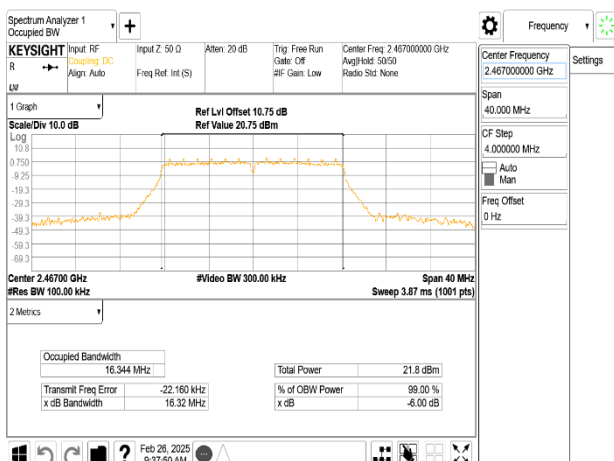
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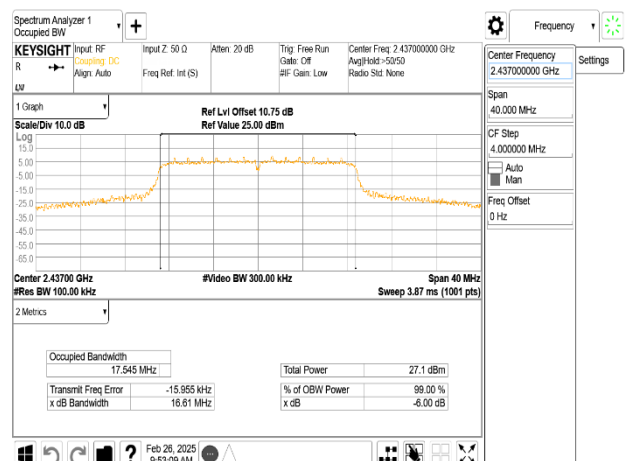
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802.11g_20MHz_Chain0_2467MHz



802.11n_20MHz_Chain0_2437MHz

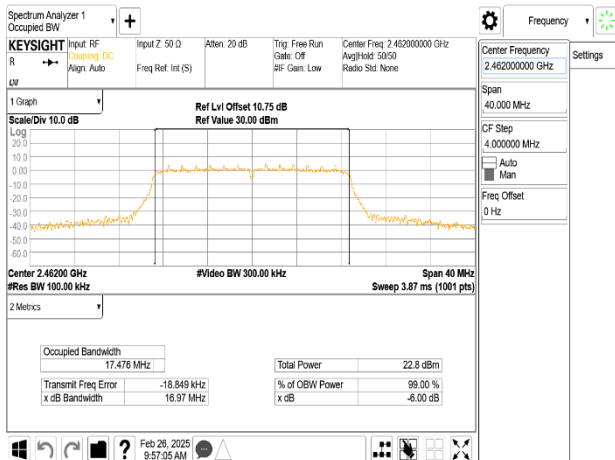


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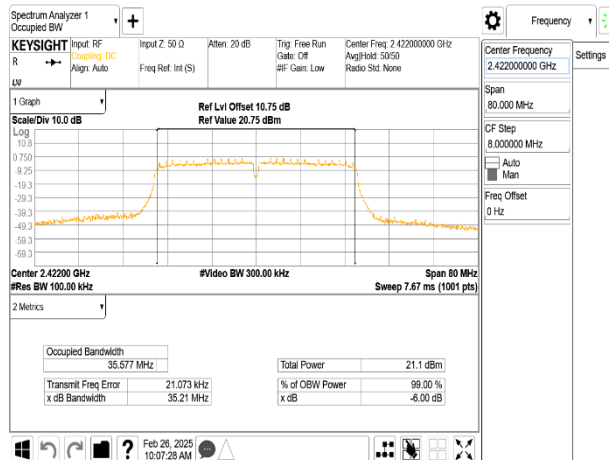
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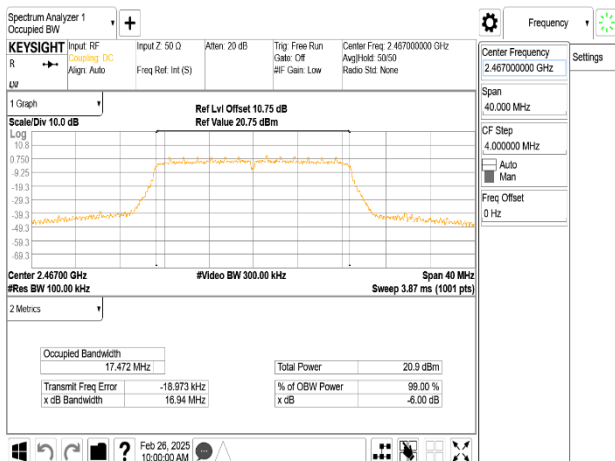
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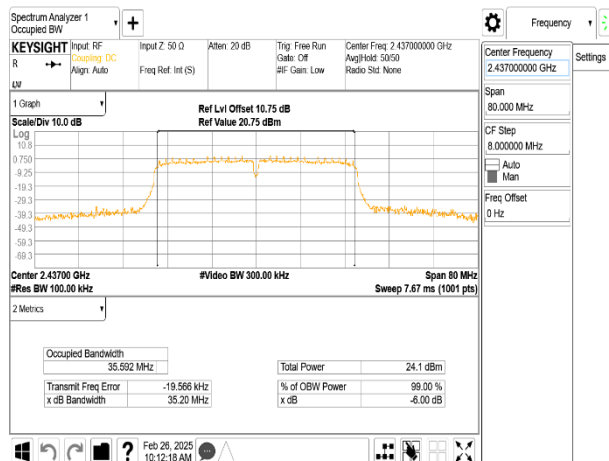
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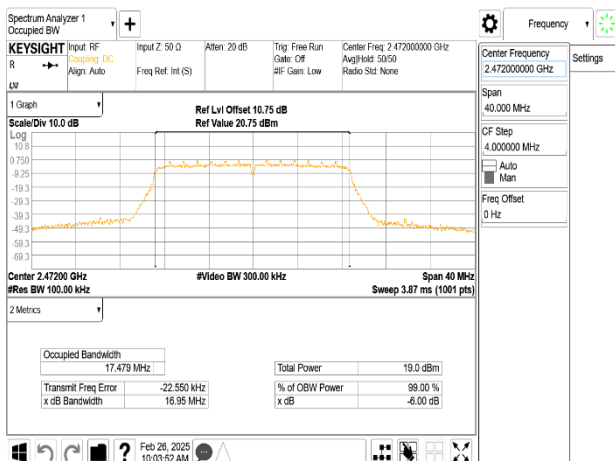
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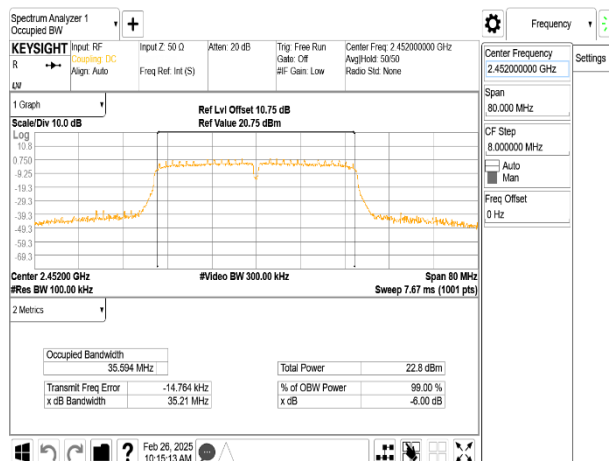
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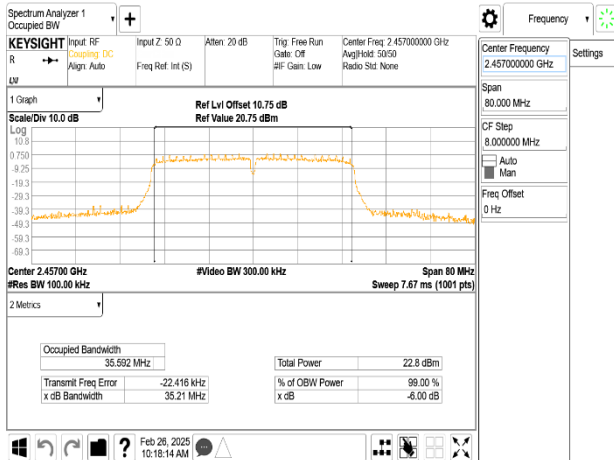


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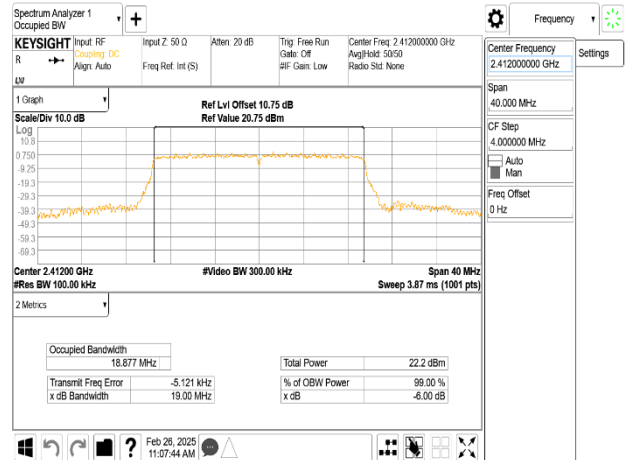
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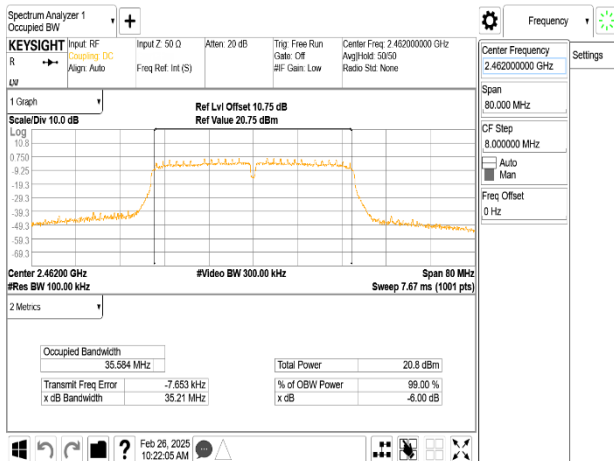
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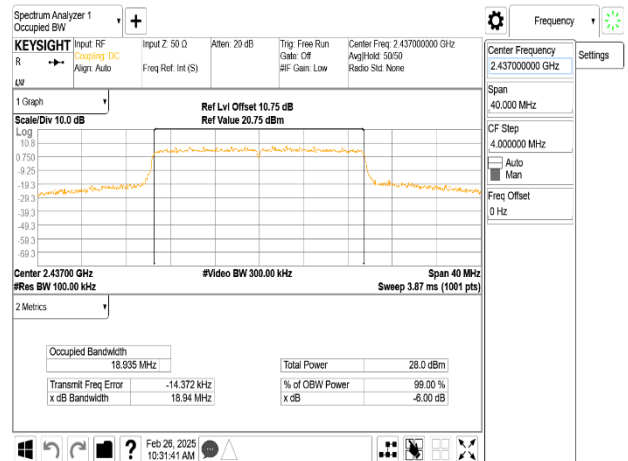
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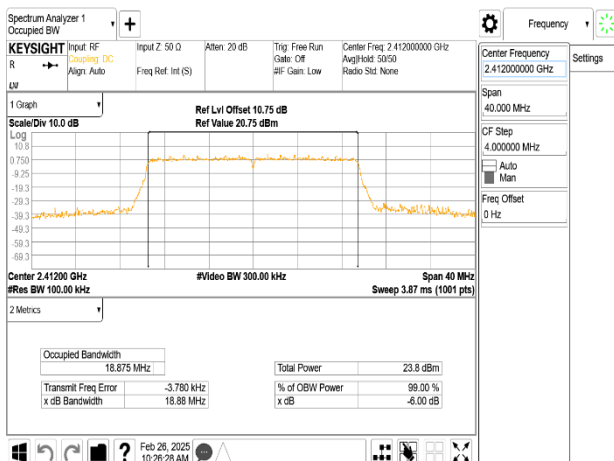
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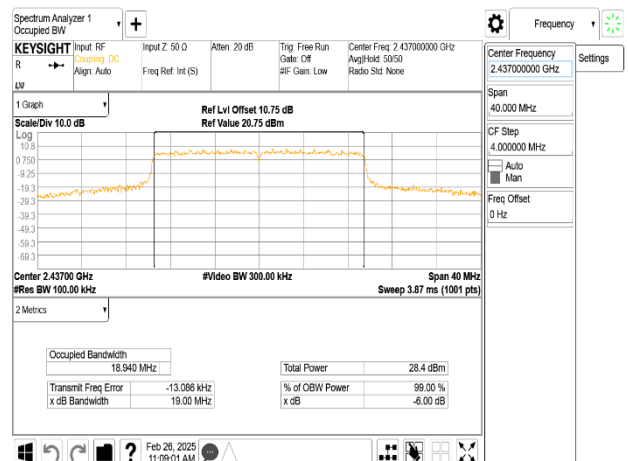
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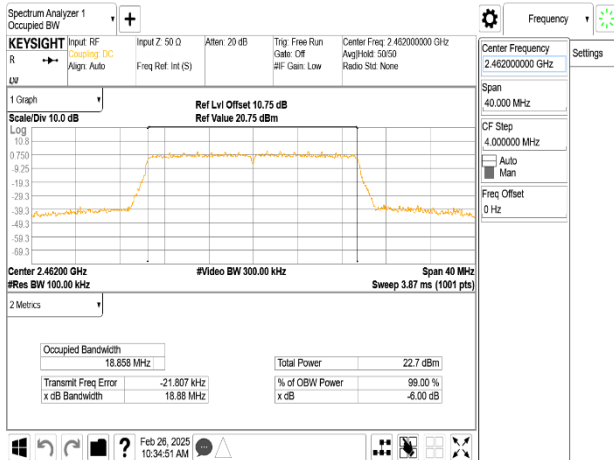


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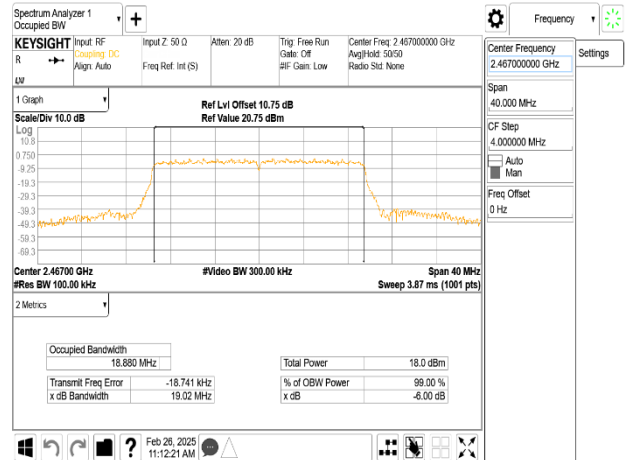
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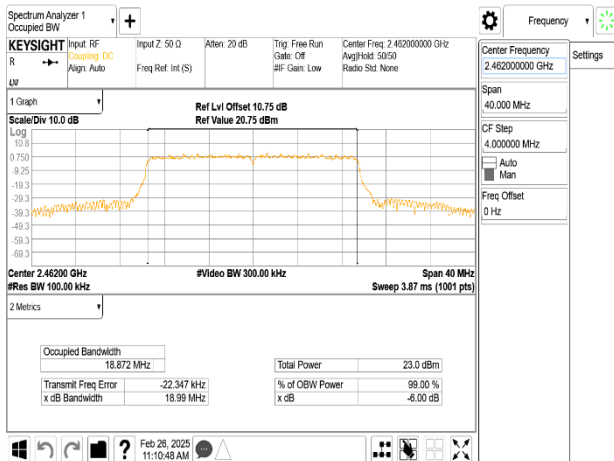
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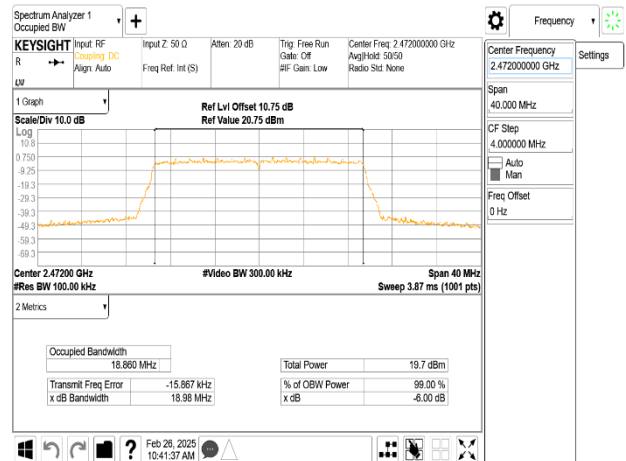
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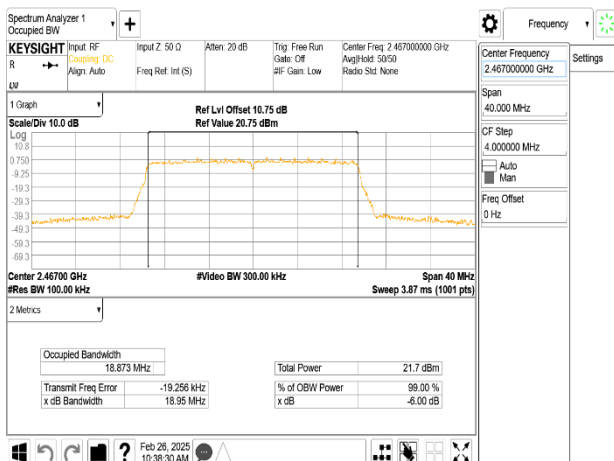
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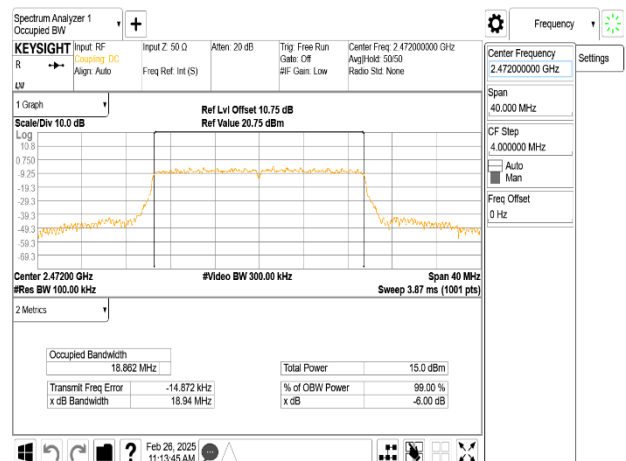
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802.11ax_20MHz_Chain0_2467MHz



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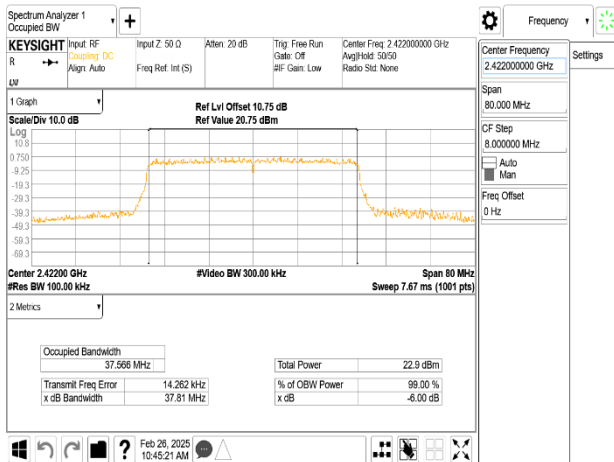


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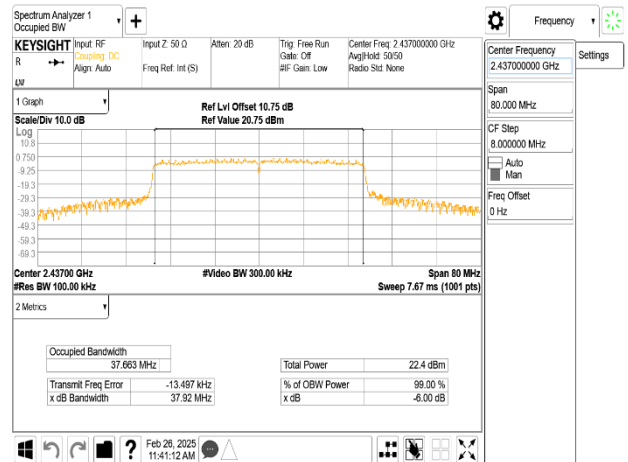
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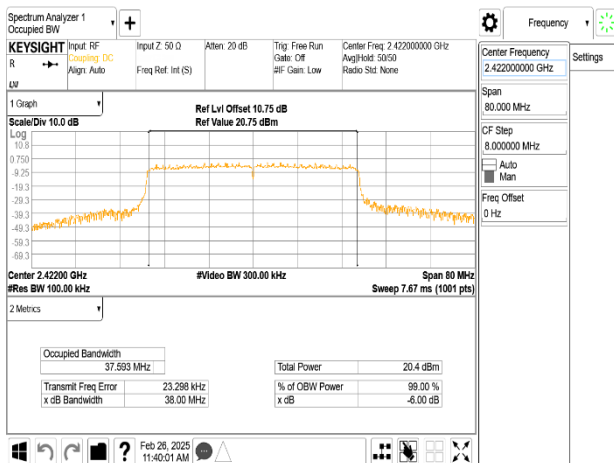
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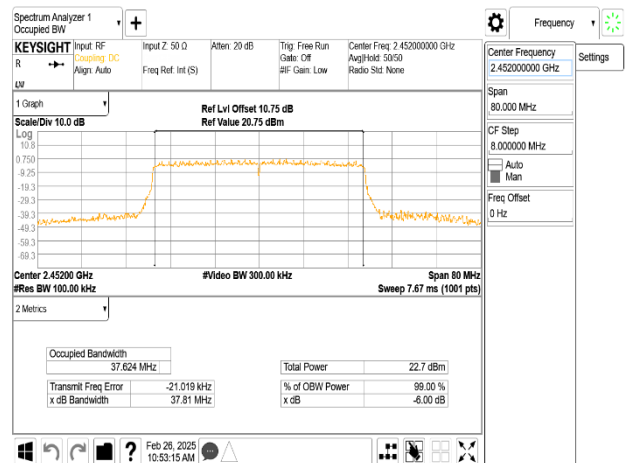
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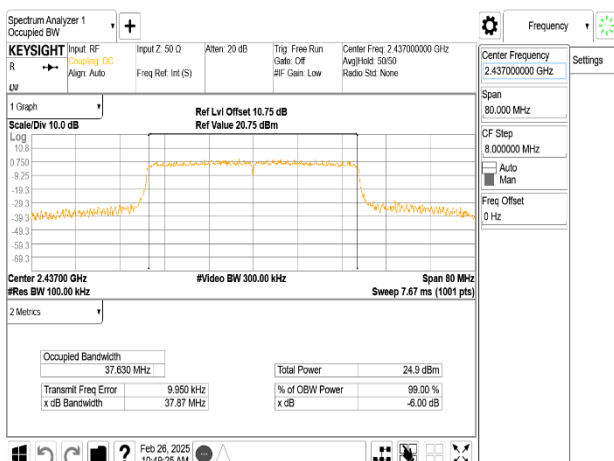
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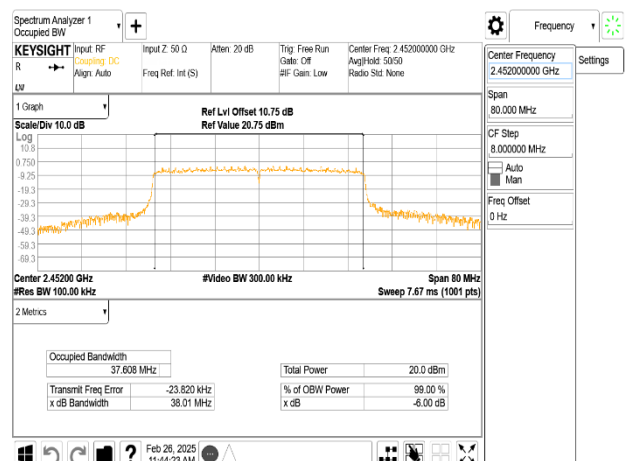
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802.11ax_40MHz_Chain0_2437MHz



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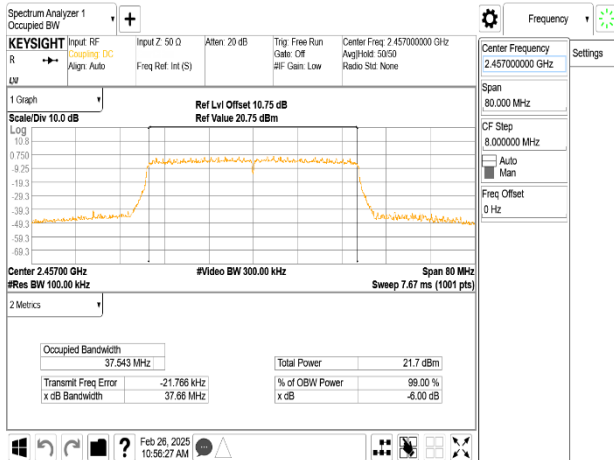


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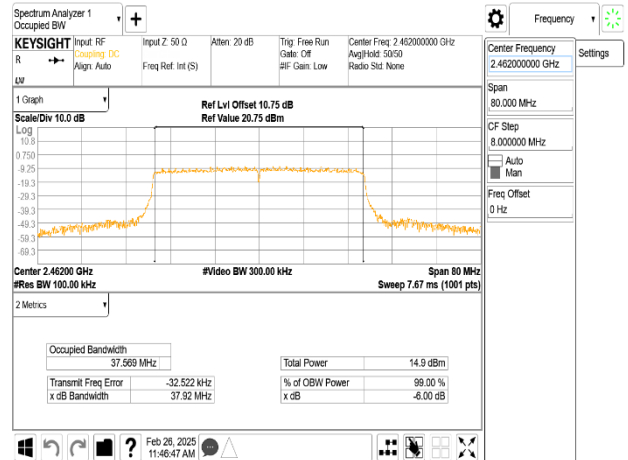
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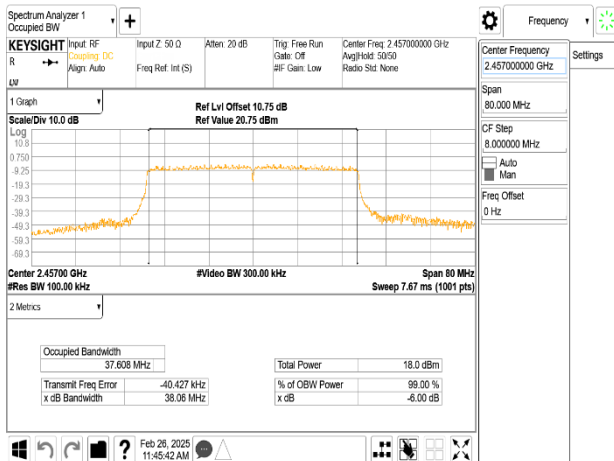
802.11ax_40MHz_Chain0_2457MHz



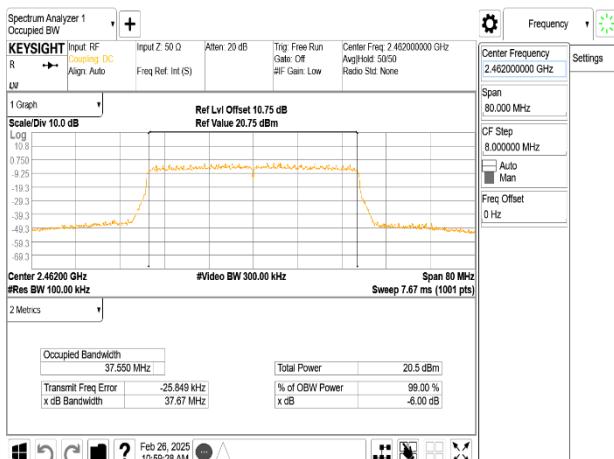
802.11ax_40MHz_Chain0_2462MHz_RU484



802.11ax_40MHz_Chain0_2457MHz_RU484



802.11ax_40MHz_Chain0_2462MHz



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9.4.2 99% Bandwidth

802.11b Ch0

Freq. (MHz)	99% BW (MHz)
2412	13.218
2437	13.263
2462	13.242
2467	13.298
2472	13.240

802.11ax_HE20M Ch0

Freq. (MHz)	RU Config	99% BW (MHz)
2412	full	18.932
2437	full	19.014
2462	full	18.949
2467	full	18.919
2472	full	18.934

802.11g Ch0

Freq. (MHz)	99% BW (MHz)
2412	16.527
2437	16.900
2462	16.527
2467	16.520
2472	16.502

802.11ax_HE40M Ch0

Freq. (MHz)	RU Config	99% BW (MHz)
2422	full	37.737
2437	full	37.766
2452	full	37.704
2457	full	37.650
2462	full	37.715

802.11n_HT20M Ch0

Freq. (MHz)	99% BW (MHz)
2412	17.532
2437	17.667
2462	17.521
2467	17.515
2472	17.502

802.11ax_HE_20M_RU Ch0

Freq. (MHz)	RU Config	99% BW (MHz)
2412	242	18.926
2437	242	19.001
2462	242	18.998
2467	242	18.930
2472	242	18.935

802.11n_HT40M Ch0

Freq. (MHz)	99% BW (MHz)
2422	35.782
2437	35.762
2452	35.740
2457	35.737
2462	35.732

802.11ax_HE_40M_RU Ch0

Freq. (MHz)	RU Config	99% BW (MHz)
2422	484	37.762
2437	484	37.831
2452	484	37.792
2457	484	37.709
2462	484	37.720

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台灣檢驗科技股份有限公司

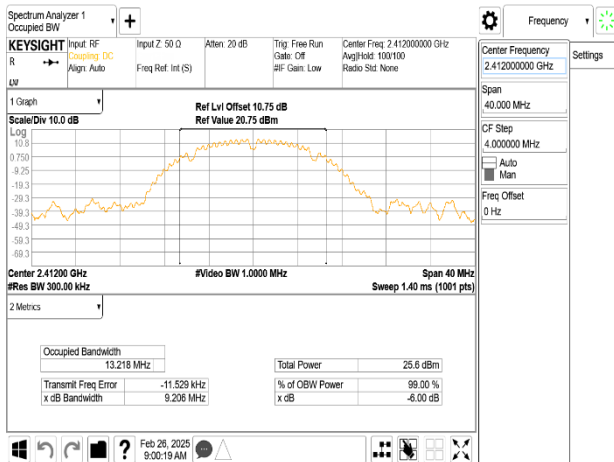
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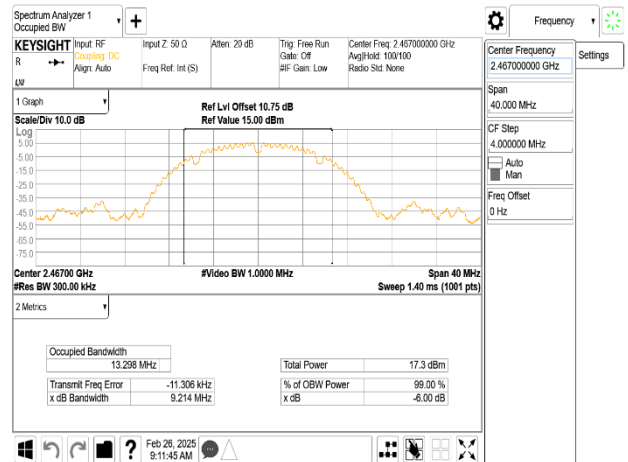
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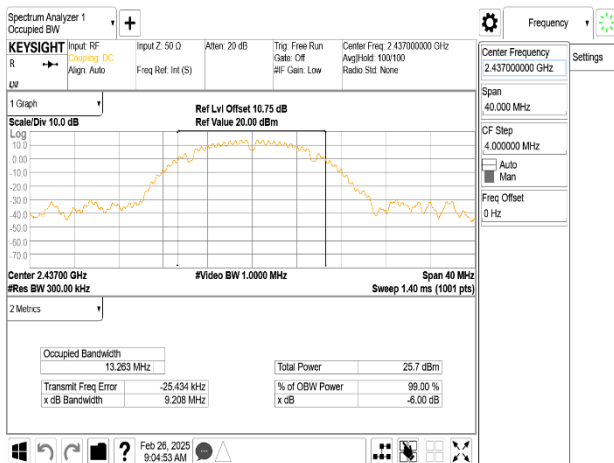
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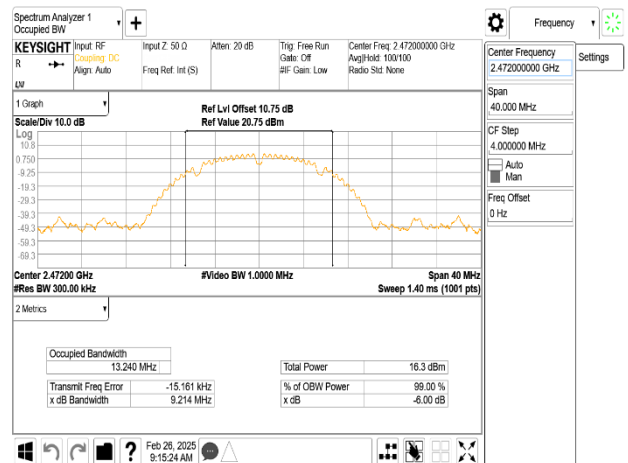
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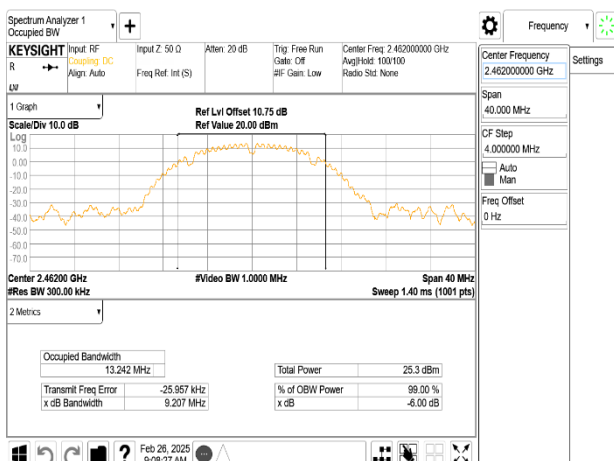
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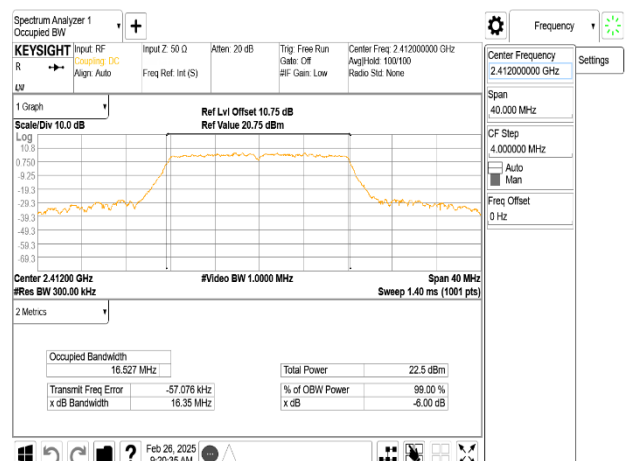
802.11b_20MHz_Chain0_2472MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2412MHz

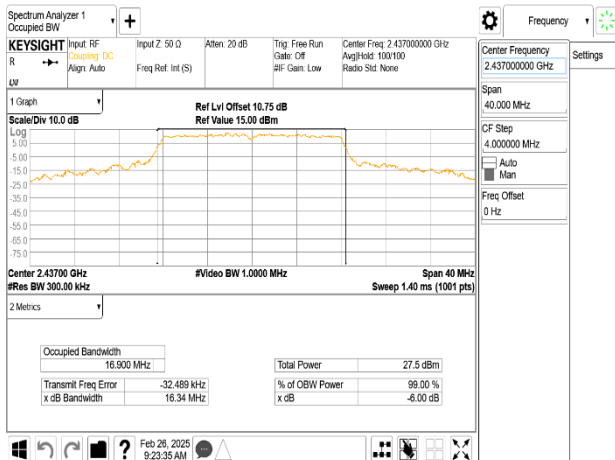


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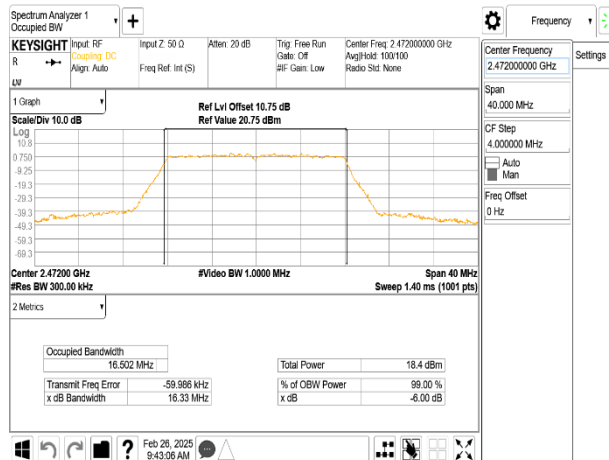
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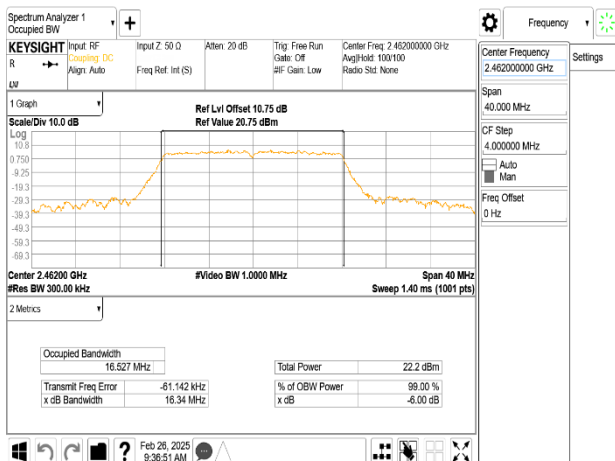
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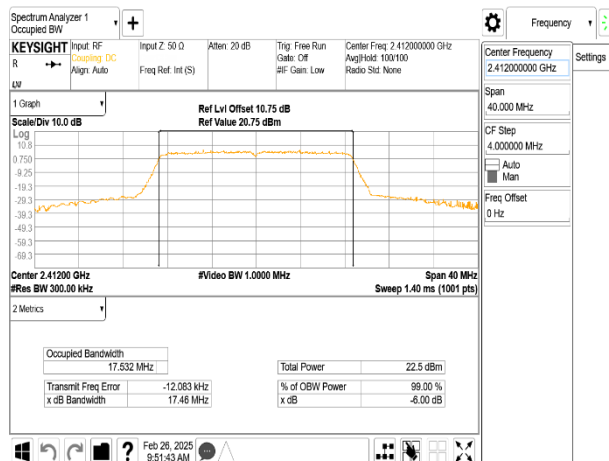
802.11g_20MHz_Chain0_2472MHz



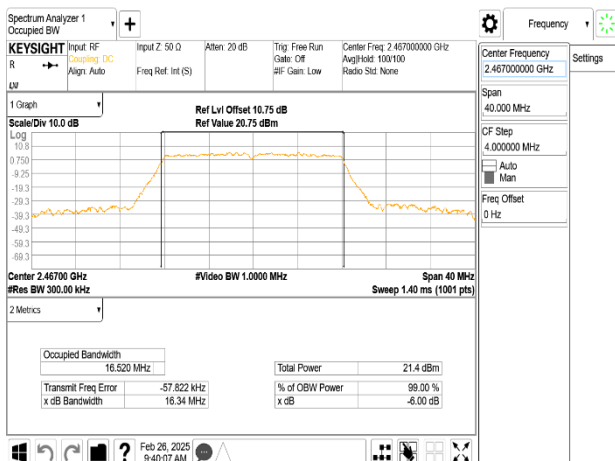
802.11g_20MHz_Chain0_2462MHz



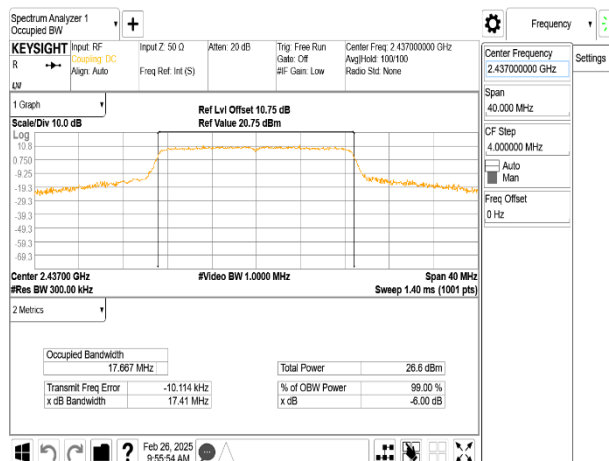
802.11n_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain0_2467MHz



802.11n_20MHz_Chain0_2437MHz



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