
FCC Test Report

Report No.: AGC00688260301FR03

FCC ID : 2BMQ8-PRO
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Projector
BRAND NAME : AI PRO
MODEL NAME : PRO 12500(Series model see page 6)
APPLICANT : Global Trade AM Inc
DATE OF ISSUE : Apr. 29, 2026
STANDARD(S) : FCC Part 15 Subpart C §15.247
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr. 29, 2026	Valid	Initial Release

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1. General Information

Applicant	Global Trade AM Inc
Address	3380 W Hacienda Ave Ste 105 Las Vegas, NV 89118 USA
Manufacturer	Changsha Byintek Electronic co., LTD
Address	601, 6Floor, C4#, JinRong Industry Park, PuRui Xi Lu, Wang Cheng District, Changsha, Hunan, China.
Factory	Changsha Byintek Electronic co., LTD
Address	601, 6Floor, C4#, JinRong Industry Park, PuRui Xi Lu, Wang Cheng District, Changsha, Hunan, China.
Product Designation	Projector
Brand Name	AI PRO
Test Model	PRO 12500
Series Model(s)	Series model see page 6
Difference Description	All the same except for the model name
Date of receipt of test item	Mar. 13, 2026
Date of Test	Mar. 24, 2026 to Apr. 28, 2026
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-2.4GWLAN-V1

Note: The test results of this report relate only to the tested sample identified in this report

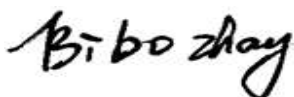
Prepared By



CiCi Li
(Project Engineer)

Apr. 29, 2026

Reviewed By



Bibo Zhang
(Reviewer)

Apr. 29, 2026

Approved By



Angela Li
(Authorized Officer)

Apr. 29, 2026

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2. Product Information

2.1 Product Technical Description

Equipment Type	WLAN 2.4G
Frequency Band	2400MHz ~ 2483.5MHz
Operation Frequency	2412MHz ~ 2462MHz
Output Power (Average)	ANT1: IEEE 802.11b:15.60dBm; IEEE 802.11g:13.18dBm; IEEE 802.11n(HT20):13.80dBm; IEEE 802.11n(HT40):13.86dBm ANT2: IEEE 802.11b:15.33dBm; IEEE 802.11g:14.85dBm; IEEE 802.11n(HT20):13.42dBm; IEEE 802.11n(HT40):13.50dBm
Output Power (Peak)	ANT1: IEEE 802.11b:18.15dBm; IEEE 802.11g:21.57dBm; IEEE 802.11n(HT20):21.49dBm; IEEE 802.11n(HT40):22.05dBm ANT2: IEEE 802.11b:17.68dBm; IEEE 802.11g:22.55dBm; IEEE 802.11n(HT20):21.40dBm; IEEE 802.11n(HT40):21.57dBm
Output Power (MIMO- Average)	IEEE 802.11n(HT20):16.60Bm; IEEE 802.11n(HT40):16.69dBm
Output Power (MIMO- Peak)	IEEE 802.11n(HT20):24.44dBm; IEEE 802.11n(HT40):24.82dBm
Modulation	802.11b:(DQPSK, DBPSK, CCK) DSSS 802.11g/n:(64-QAM,16-QAM, QPSK, BPSK) OFDM
Data Rate	802.11b:1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps
Number of channels	11
Hardware Version	C3000-MT9269
Software Version	C.18TY2025102810en2-ES
Antenna Designation	PIFA Antenna
Antenna Gain	Please refer to report section 2.9 description
Power Supply	DC 12V by adapter or DC 7.4V by battery
Adapter Information	Model: TEKA-AD1C120200US Input: 100-240V~, 50/60Hz, 0.7A MAX Output: 12V=2A Manufacturer: GUANGDONG TEKA TECHNOLOGY CO., LTD.
Battery Information	Model: 21700-2S1P Rated Voltage & Cap.: 7.4V, 4000mAh, 29.6Wh Manufacturer: Guangdong Sunbang Technology Co., Ltd.
Series Models	PRO 12000, PRO 12500, PRO 13000, PRO 13500, PRO 14000, PRO

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	14500, PRO 15000, PRO 15500, PRO 16000, PRO 16500, PRO 17000, PRO 17500, PRO 18000, PRO 18500, PRO 19000, PRO 19500, PRO 20000, PRO 20500, PRO 21000, PRO 21500, PRO 22000, PRO 22500, PRO 23000, PRO 23500, PRO 24000, PRO 24500, PRO 25000, PRO 25500, PRO 26000, PRO 26500, PRO 27000, PRO 27500, PRO 28000, PRO 28500, PRO 29000, PRO 29500, PRO 30000, PRO 30500, PRO 31000, PRO 31500, PRO 32000, PRO 32500, PRO 33000, PRO 33500, PRO 34000, PRO 34500, PRO 35000, PRO 35500, PRO 36000, PRO 36500
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2.2 Table of Carrier Frequency

For 2412-2462MHz:

11 channels are provided for 802.11b/g/n(HT20):

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	2457 MHz	11	2462 MHz		

7 channels are provided for 802.11n(HT40):

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	--	02	--	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	--	11	--		

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2.3 IEEE 802.11n Modulation Scheme

MCS Index	Nss	Modulation	R	N _{BPSC}	N _{CBPS}		N _{DBPS}		Data Rate(Mbps)	
									800nsGI	
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0
6	1	64-QAM	3/4	6	312	648	234	489	58.5	121.5
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPSC	Number of coded bits per single carrier
NCBPS	Number of coded bits per symbol
NDBPS	Number of data bits per symbol
GI	Guard interval

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2.4 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2BMQ8-PRO**, filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

2.5 Test Methodology

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2020+Cor.1-2023	American National Standard for Testing Unlicensed Wireless Devices
4	KDB 662911	KDB 662911 D01 Multiple Transmitter Output v02r01 Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)

2.6 Special Accessories

Refer to section 4.4.

2.7 Equipment Modifications

Not available for this EUT intended for grant.

2.8 Antenna Requirement

Standard Requirement
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi EUT Antenna: The non-detachable antenna inside the device cannot be replaced by the user at will. For the antenna gain, please refer to the description in Chapter 2.9 of the report.

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2.9 Description of Available Antennas

Antenna Type	Frequency Band (MHz)	TX Paths	Bandwidth (MHz)	Max Peak Gain (dBi)		Max Directional Gain (dBi)
				Ant 1	Ant 2	
2.4GWIFI PIFA Antenna List (2.4GHz 2*2 MIMO)						
PIFA Antenna	2400~2483.5	2	20, 40	3.39	3.39	6.40

Note 1: The EUT supports Cyclic Delay Diversity (CDD) technology for 802.11n/ax mode.

Note 2: The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on devices:

$$\text{Array Gain} = 10 \log (N_{ANT} / N_{SS}) \text{ dB} = 3.01;$$

- For power measurements on IEEE 802.11 devices:

$$\text{Array Gain} = 0 \text{ dB for } N_{ANT} \leq 4;$$

$$\text{Array Gain} = 0 \text{ dB (i.e., no array gain) for channel widths } \geq 40 \text{ MHz for any } N_{ANT};$$

$$\text{Array Gain} = 5 \log(N_{ANT}/N_{SS}) \text{ dB or } 3 \text{ dB, whichever is less, for } 20 \text{ MHz channel widths with } N_{ANT} \geq 5.$$

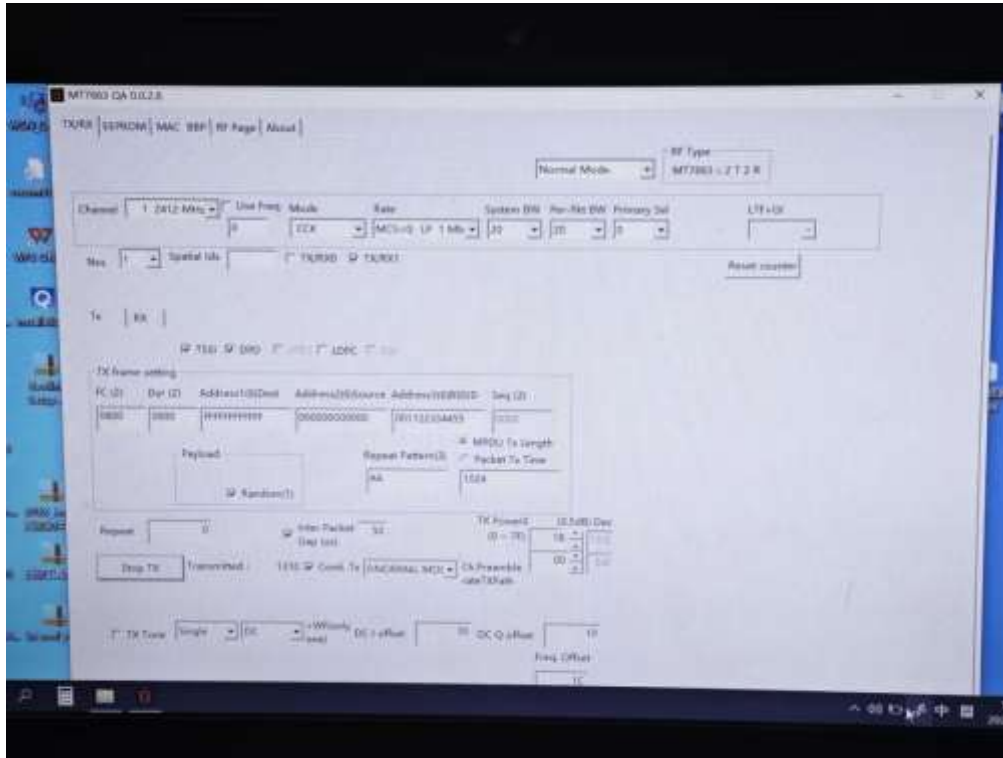
If antenna gains are not equal, Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

2.10 Description of Test Software

For IEEE 802.11 mode:

The test utility software used during testing was “MT7663 QA”, and the version was “0.0.2.6”.

Software Setting Diagram



Test Mode	Channel	Power Index	
		Chain A	Chain B
802.11b	L/M/H	1B	1B
802.11g	L/M/H	1B	1B
802.11n-HT20	L/M/H	1B	1B
802.11n-HT40	L/M/H	1B	1B

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3. Test Environment

3.1 Address of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 101 & 201, Building 19(B5), Junfeng Industrial Park, Chongqing Road, P.R.C.

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories).

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842 (CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

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3.3 Environmental Conditions

	Normal Conditions
Temperature range (°C)	15 - 35
Relative humidity range	20 % - 75 %
Pressure range (kPa)	86 - 106

3.4 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 2.9 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.9 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$
Uncertainty of Duty Cycle	$U_c = \pm 2 \%$

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3.5 List of Equipment Used

● RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2025-05-08	2026-05-07
☒	AGC-ER-A007	6dB Fixed Attenuator	Mini circuits	BW-S6-2W263A+	N/A	2026-01-31	2028-01-30
☒	N/A	RF Connection Cable	N/A	1#	N/A	Each time	N/A
☒	N/A	RF Connection Cable	N/A	2#	N/A	Each time	N/A
☐	AGC-ER-E091	DC Power Supply	AIDEKESI	IT6720	800103030787810080	2024-03-28	2026-03-27

● Radiated Spurious Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	100096	2026-01-13	2027-01-12
☐	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
☒	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2025-05-08	2026-05-07
☒	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2026-01-14	2028-01-13
☒	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2025-03-14	2027-03-13
☒	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2026-03-14	2027-03-13
☒	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2025-09-10	2027-09-09
☒	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23
☒	AGC-EM-A119	2.4GHz Filter	SongYi	N/A	N/A	2025-05-16	2026-05-15
☒	AGC-EM-A138	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2025-05-16	2027-05-15
☐	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2025-05-16	2027-05-15

● AC Power Line Conducted Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
☒	AGC-EM-A171	Attenuator	Mini-Circuits	UNAT-10A+	DC-6GZ	2026-01-13	2028-01-12
☒	AGC-EM-E023	AMN	R&S	ESH2-Z5	100086	2025-05-08	2026-05-07

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● Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
☒	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71
☒	AGC-EM-S003	RE Test System	FARA	EZ-EMC	VRA-03A
☐	AGC-EM-S004	RE Test System	Tonscend	TS ⁺ Ver2.1(JS32-RE)	4.0.0.0
☒	AGC-ER-S012	BT/WIFI Test System	Tonscend	JS1120-2	2.6
☒	AGC-EM-S011	RSE Test System	Tonscend	TS+-Ver2.1(JS36-RSE)	4.0.0.0

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4. System Test Configuration

4.1 EUT Configuration

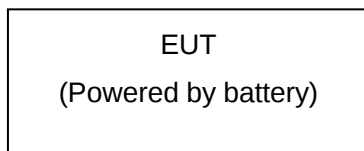
The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

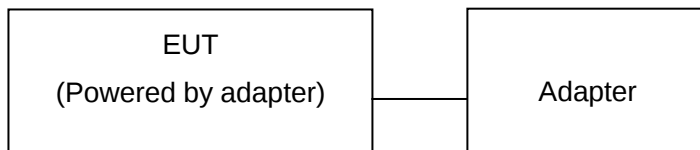
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of Tested System

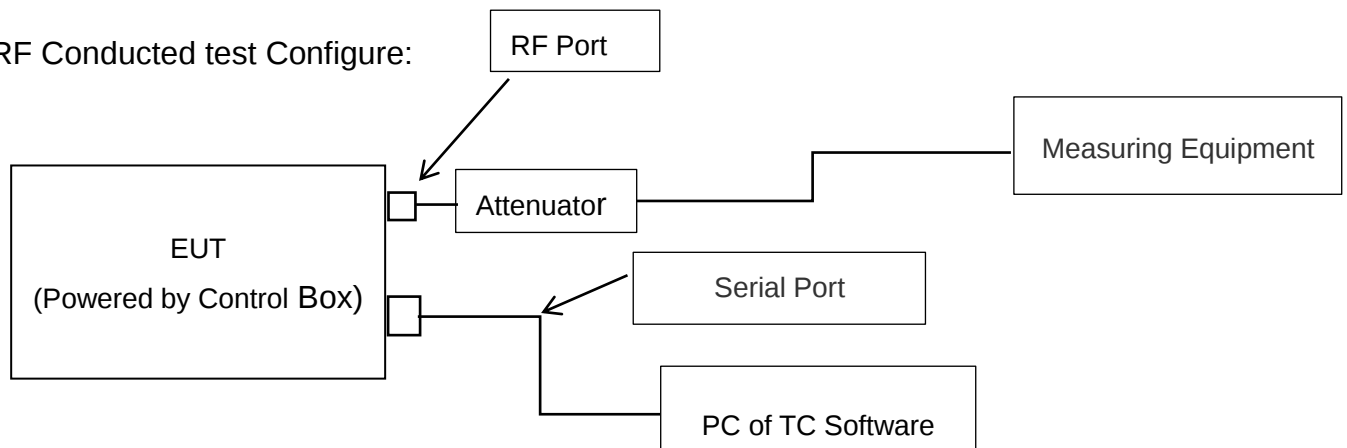
Radiated Emission Configure:



Conducted Emission Configure:



RF Conducted test Configure:



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4.4 Equipment Used in Tested System

The following peripheral devices and interface cables were connected during the measurement:

☒ Test Accessories Come From The Laboratory

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	Redmi Notebook PC	Redmi	XMA2002-AG	N/A	N/A

☒ Test Accessories Come From The Manufacturer

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	Control Box	N/A	N/A	N/A	N/A
2	Adapter	TEKA	TEKA-AD1C120200US		2.05m unshielded

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4.5 Summary of Test Results

Item	FCC Rules	Description of Test	Result
1	§15.203&15.247(b)(4)	Antenna Equipment	Pass
2	§15.247 (b)(1)	RF Output Power	Pass
3	§15.247 (a)(1)	6 dB Bandwidth	Pass
4	§15.247 (e)	Power Spectral Density	Pass
5	§15.247 (d)	Conducted Band Edge and Out-of-Band Emissions	Pass
6	§15.247 (d)&15.209	Radiated Spurious Emission	Pass
7	§15.207	AC Power Line Conducted Emission	Pass

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5. Description of Test Modes

Summary table of Test Cases	
Test Item	Data Rate / Modulation
	2.4G WLAN – 802.11b/g/n/ax (DSSS/OFDM/OFDMA)
Radiated Test Cases	Mode 1: 802.11b_TX CH01_2412 MHz_1 Mbps (Battery powered or AC/DC adapter) Mode 2: 802.11b_TX CH06_2437 MHz_1 Mbps (Battery powered or AC/DC adapter) Mode 3: 802.11b_TX CH11_2462 MHz_1 Mbps (Battery powered or AC/DC adapter) Mode 4: 802.11g_TX CH01_2412 MHz_6 Mbps (Battery powered or AC/DC adapter) Mode 5: 802.11g_TX CH06_2437 MHz_6 Mbps (Battery powered or AC/DC adapter) Mode 6: 802.11g_TX CH11_2462 MHz_6 Mbps (Battery powered or AC/DC adapter) Mode 7: 802.11n-HT20_TX CH01_2412 MHz_MCS0 Mbps (Battery powered or AC/DC adapter) Mode 8: 802.11n-HT20_TX CH06_2437 MHz_MCS0 Mbps (Battery powered or AC/DC adapter) Mode 9: 802.11n-HT20_TX CH11_2462 MHz_MCS0 Mbps (Battery powered or AC/DC adapter) Mode 10: 802.11n-HT40_TX CH03_2422 MHz_MCS0 Mbps (Battery powered or AC/DC adapter) Mode 11: 802.11n-HT40_TX CH06_2437 MHz_MCS0 Mbps (Battery powered or AC/DC adapter) Mode 12: 802.11n-HT40_TX CH09_2452 MHz_MCS0 Mbps (Battery powered or AC/DC adapter)
RF Conducted Test Cases	Mode 1: 802.11b_TX CH01_2412 MHz_1 Mbps (Powered by Control Box) Mode 2: 802.11b_TX CH06_2437 MHz_1 Mbps (Powered by Control Box) Mode 3: 802.11b_TX CH11_2462 MHz_1 Mbps (Powered by Control Box) Mode 4: 802.11g_TX CH01_2412 MHz_6 Mbps (Powered by Control Box) Mode 5: 802.11g_TX CH06_2437 MHz_6 Mbps (Powered by Control Box) Mode 6: 802.11g_TX CH11_2462 MHz_6 Mbps (Powered by Control Box) Mode 7: 802.11n-HT20_TX CH01_2412 MHz_MCS0 Mbps (Powered by Control Box) Mode 8: 802.11n-HT20_TX CH06_2437 MHz_MCS0 Mbps (Powered by Control Box) Mode 9: 802.11n-HT20_TX CH11_2462 MHz_MCS0 Mbps (Powered by Control Box) Mode 10: 802.11n-HT40_TX CH03_2422 MHz_MCS0 Mbps (Powered by Control Box) Mode 11: 802.11n-HT40_TX CH06_2437 MHz_MCS0 Mbps (Powered by Control Box) Mode 12: 802.11n-HT40_TX CH09_2452 MHz_MCS0 Mbps (Powered by Control Box)
AC Conducted Emission	Mode 1: 2.4G WLAN Link + Battery + USB Cable (Charging from AC/DC Adapter)
Note: 1. The battery is full-charged during the test. 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode. 3. For Conducted Test method, a temporary antenna connector is provided by the manufacture. 4. The device under test has multiple antennas. The mode that supports MIMO technology records the worst data. 5. The manufacturer of RF external cable claims that the cable loss is 0.5dB, and the cable loss and attenuator have been compensated into the Corrections Configuration of measuring equipment. 6. Input correction factor includes external cable loss and attenuator amplitude compensation. The formula is: Input compensation coefficient (dB) = Cable Loss (dB) + Attenuator attenuation value (dB)	

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6. Duty Cycle Measurement

2.4GHz WLAN (DTS) operation is possible in 20MHz, and 40MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = Average. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Chain A

Operating mode	Data rates (Mbps)	Duty Cycle (%)	Duty Cycle Factor (dB)
IEEE 802.11b	1	99.64	N/A
IEEE 802.11g	6	79.81	0.98
IEEE 802.11n-HT20	MCS0	96.73	0.14
IEEE 802.11n-HT40	MCS0	93.91	0.27

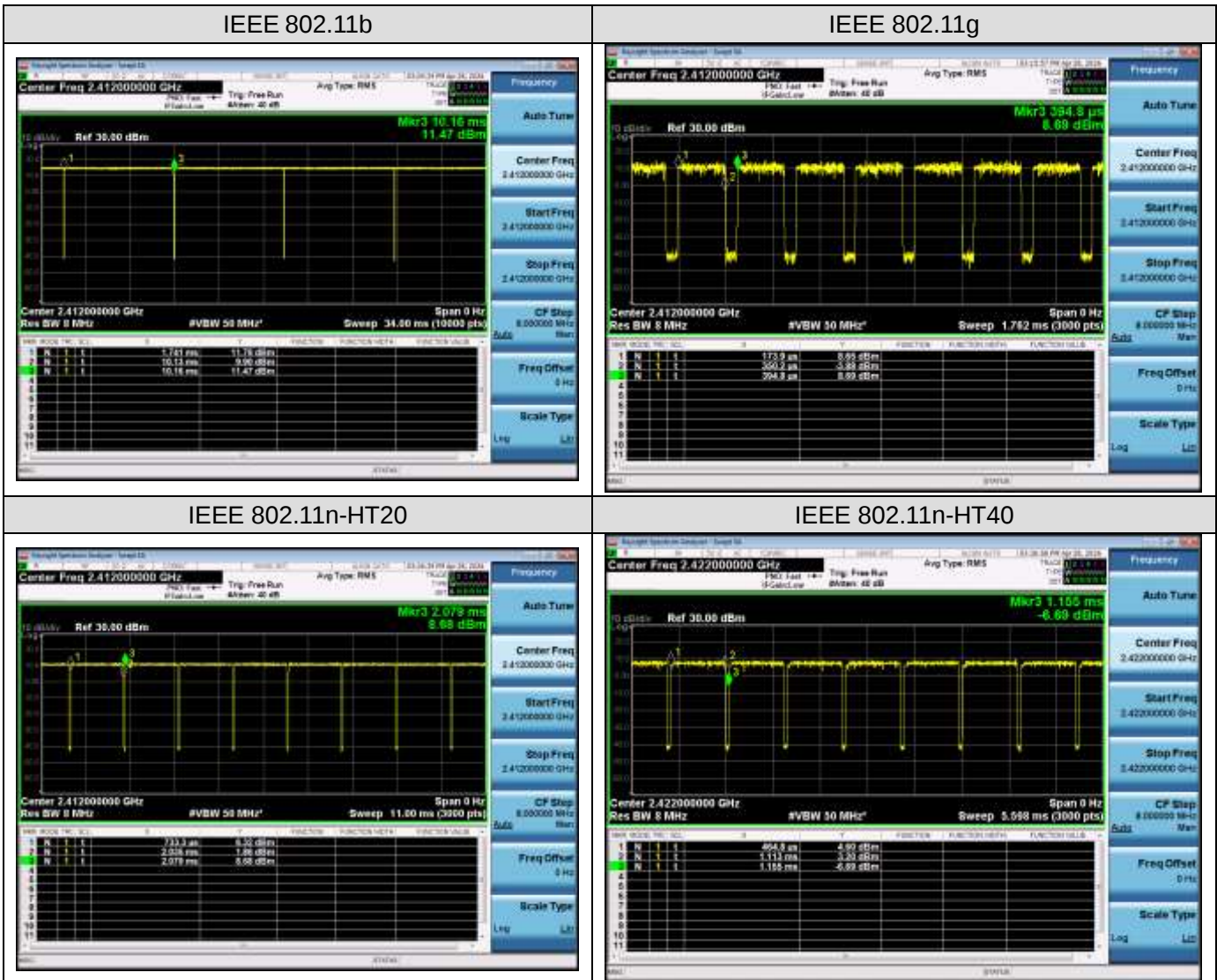
Remark:

1. Duty Cycle factor = $10 * \log (1/ \text{Duty cycle})$
2. The duty cycle of each frequency band mode reflects the determination requirements of the Low channel measurement value.

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The test plots as follows:



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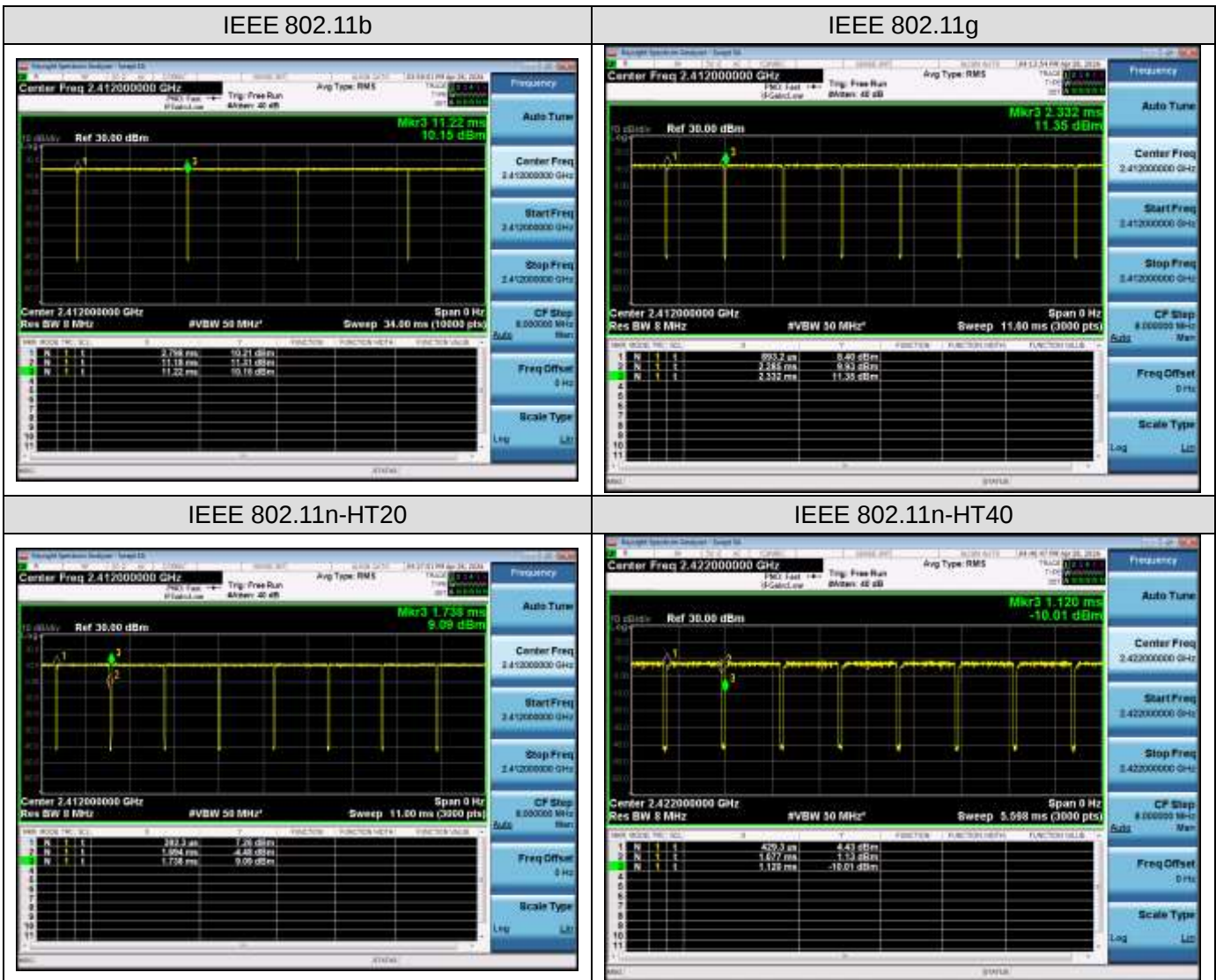
Chain B

Operating mode	Data rates (Mbps)	Duty Cycle (%)	Duty Cycle Factor (dB)
IEEE 802.11b	1	99.53	N/A
IEEE 802.11g	6	96.73	0.14
IEEE 802.11n-HT20	MCS0	96.73	0.14
IEEE 802.11n-HT40	MCS0	93.77	0.28

Remark:

- Duty Cycle factor = $10 * \log (1/ \text{Duty cycle})$
- The duty cycle of each frequency band mode reflects the determination requirements of the Low channel measurement value.

The test plots as follows:



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7. RF Output Power Measurement

7.1 Provisions Applicable

For DTSSs employing digital modulation techniques operating in the bands 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W.

7.2 Measurement Procedure

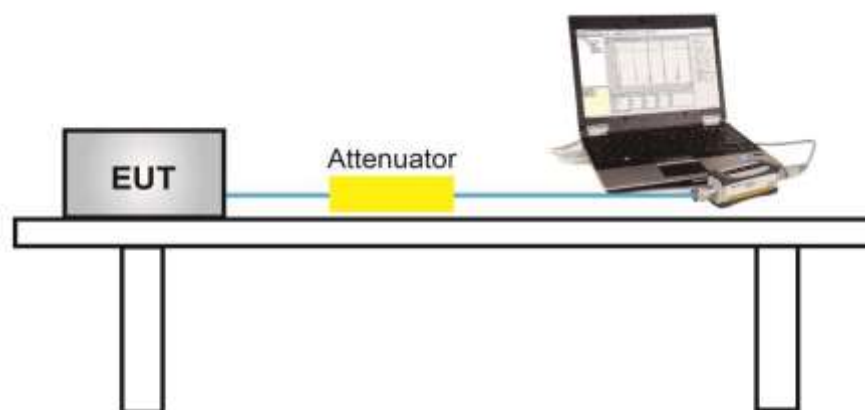
☒ Method PM is Measurement using an RF Peak power meter. The procedure for this method is as follows:

1. The testing follows the ANSI C63.10 Section 11.9.1.3
2. The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

☒ Method PM is Measurement using an RF average power meter. The procedure for this method is as follows:

1. The testing follows the ANSI C63.10 Section 11.9.2.3
2. Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
3. The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
4. At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
5. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
6. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
7. Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
8. Adjust the measurement in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle {e.g., $[10 \log (1 / 0.25)]$, if the duty cycle is 25%}.
9. Record the test results in the report.

7.3 Measurement Setup (Block Diagram of Configuration)



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7.4 Measurement Result

Test Data of Conducted Output Power-Chain A					
Test Mode	Test Frequency (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
802.11b	2412	15.47	17.79	≤30	Pass
	2437	15.60	18.15	≤30	Pass
	2462	15.30	17.78	≤30	Pass
802.11g	2412	13.18	20.91	≤30	Pass
	2437	13.06	21.57	≤30	Pass
	2462	13.07	21.47	≤30	Pass
802.11n20	2412	13.49	20.95	≤30	Pass
	2437	13.75	21.46	≤30	Pass
	2462	13.80	21.49	≤30	Pass
802.11n40	2422	13.39	21.42	≤30	Pass
	2437	13.86	22.05	≤30	Pass
	2452	13.79	22.04	≤30	Pass

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Test Data of Conducted Output Power-Chain B					
Test Mode	Test Frequency (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
802.11b	2412	15.23	17.68	≤30	Pass
	2437	15.33	17.67	≤30	Pass
	2462	15.11	17.53	≤30	Pass
802.11g	2412	14.85	22.55	≤30	Pass
	2437	14.49	22.38	≤30	Pass
	2462	14.50	22.41	≤30	Pass
802.11n20	2412	13.34	21.22	≤30	Pass
	2437	13.42	21.40	≤30	Pass
	2462	13.37	21.31	≤30	Pass
802.11n40	2422	13.23	21.43	≤30	Pass
	2437	13.50	21.38	≤30	Pass
	2452	13.43	21.57	≤30	Pass

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Test Data of Conducted Output Power-MIMO					
Test Mode	Test Frequency (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	2412	16.43	24.10	≤29.6	Pass
	2437	16.60	24.44	≤29.6	Pass
	2462	16.60	24.41	≤29.6	Pass
802.11n40	2422	16.32	24.44	≤29.6	Pass
	2437	16.69	24.74	≤29.6	Pass
	2452	16.62	24.82	≤29.6	Pass

Note:

1. The Total Average Conducted Output Power (dBm) = $10 \cdot \log \{10^{(\text{Ant1 AVG} / 10)} + 10^{(\text{Ant2 AVG} / 10)}\}$.
2. The Total Peak Conducted Output Power (dBm) = $10 \cdot \log \{10^{(\text{Ant1 PK} / 10)} + 10^{(\text{Ant2 PK} / 10)}\}$.
3. For antenna gain greater than 6 dBi, the output power has been reduced accordingly to meet Power limits. The limit is determined as: Conducted Output Power Limit=30-(Ant Gain-6).

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8. 6dB Bandwidth Measurement

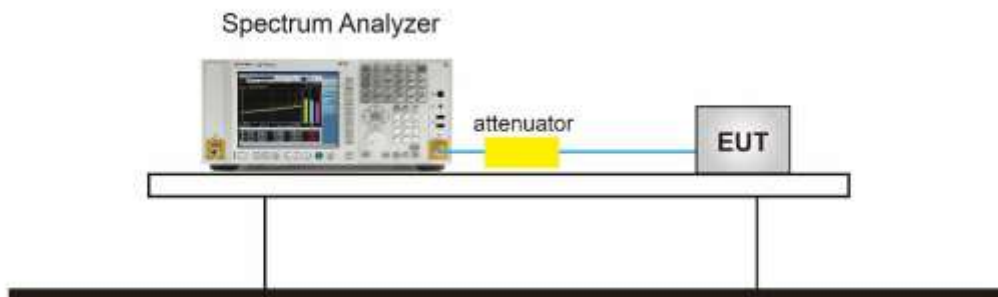
8.1 Provisions Applicable

The minimum 6dB bandwidth shall be 500 kHz.

8.2 Measurement Procedure

- The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.2 (6dB BW).
- 1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- 3. For 6dB Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 300 kHz. Set the Video bandwidth (VBW) = 1MHz. In order to make an accurate measurement.
- 4. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the OBW and set the Video bandwidth (VBW) $\geq 3 * RBW$.
- 5. Detector = peak
- 6. Trace mode = max hold.
- 7. Sweep = auto couple.
- 8. Allow the trace to stabilize.
- 9. Measure and record the results in the test report.

8.3 Measurement Setup (Block Diagram of Configuration)



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8.4 Measurement Result

Test Data of Occupied Bandwidth and DTS Bandwidth-Chain A					
Test Mode	Test Frequency (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	DTS Bandwidth Limits (MHz)	Pass or Fail
802.11b	2412	13.409	8.091	≥0.5	Pass
	2437	13.454	9.035	≥0.5	Pass
	2462	13.447	8.606	≥0.5	Pass
802.11g	2412	16.461	16.213	≥0.5	Pass
	2437	16.519	16.132	≥0.5	Pass
	2462	16.555	16.031	≥0.5	Pass
802.11n20	2412	17.693	17.351	≥0.5	Pass
	2437	17.648	17.332	≥0.5	Pass
	2462	17.642	17.244	≥0.5	Pass
802.11n40	2422	36.174	35.729	≥0.5	Pass
	2437	36.135	35.592	≥0.5	Pass
	2452	36.264	35.501	≥0.5	Pass

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Test Data of Occupied Bandwidth and DTS Bandwidth-Chain B					
Test Mode	Test Frequency (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	DTS Bandwidth Limits (MHz)	Pass or Fail
802.11b	2412	13.347	8.542	≥0.5	Pass
	2437	13.368	8.087	≥0.5	Pass
	2462	13.340	8.531	≥0.5	Pass
802.11g	2412	16.599	15.932	≥0.5	Pass
	2437	16.675	16.235	≥0.5	Pass
	2462	16.692	16.161	≥0.5	Pass
802.11n20	2412	17.704	17.457	≥0.5	Pass
	2437	17.708	17.372	≥0.5	Pass
	2462	17.712	17.304	≥0.5	Pass
802.11n40	2422	36.213	35.744	≥0.5	Pass
	2437	36.111	33.478	≥0.5	Pass
	2452	36.185	35.464	≥0.5	Pass

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Test Graphs of Occupied Bandwidth



Test_Graph_802.11b_Chain A_2412_1Mbps_OBW



Test_Graph_802.11b_Chain A_2437_1Mbps_OBW

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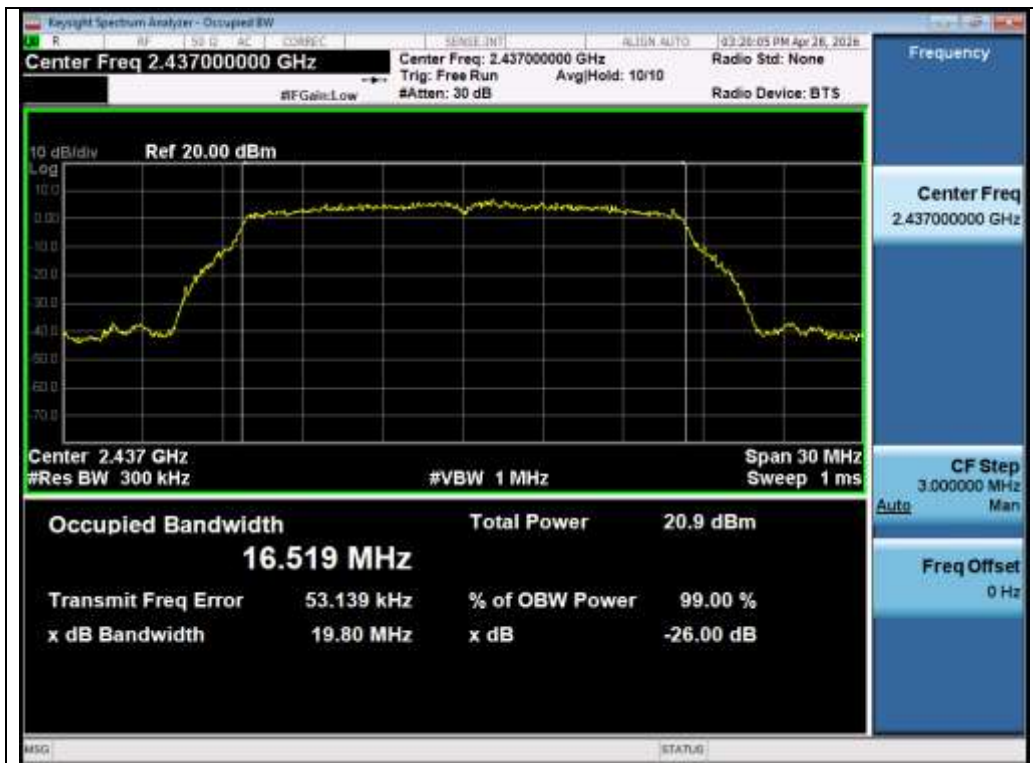


Test_Graph_802.11b_Chain A_2462_1Mbps_OBW

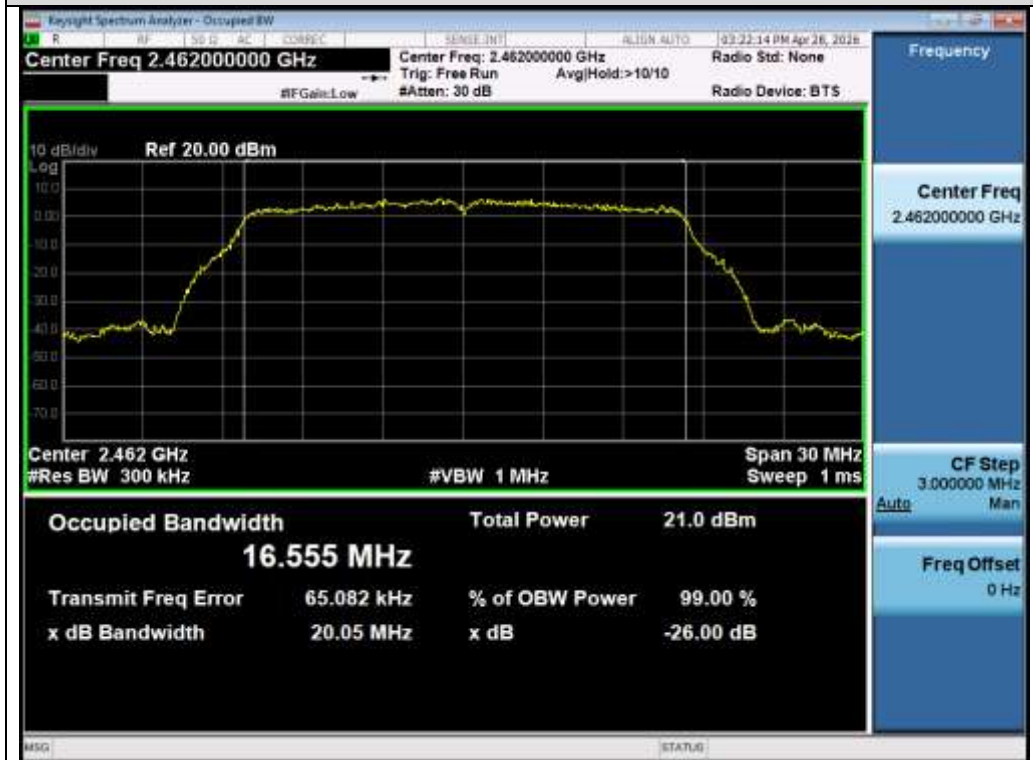


Test_Graph_802.11g_Chain A_2412_6Mbps_OBW

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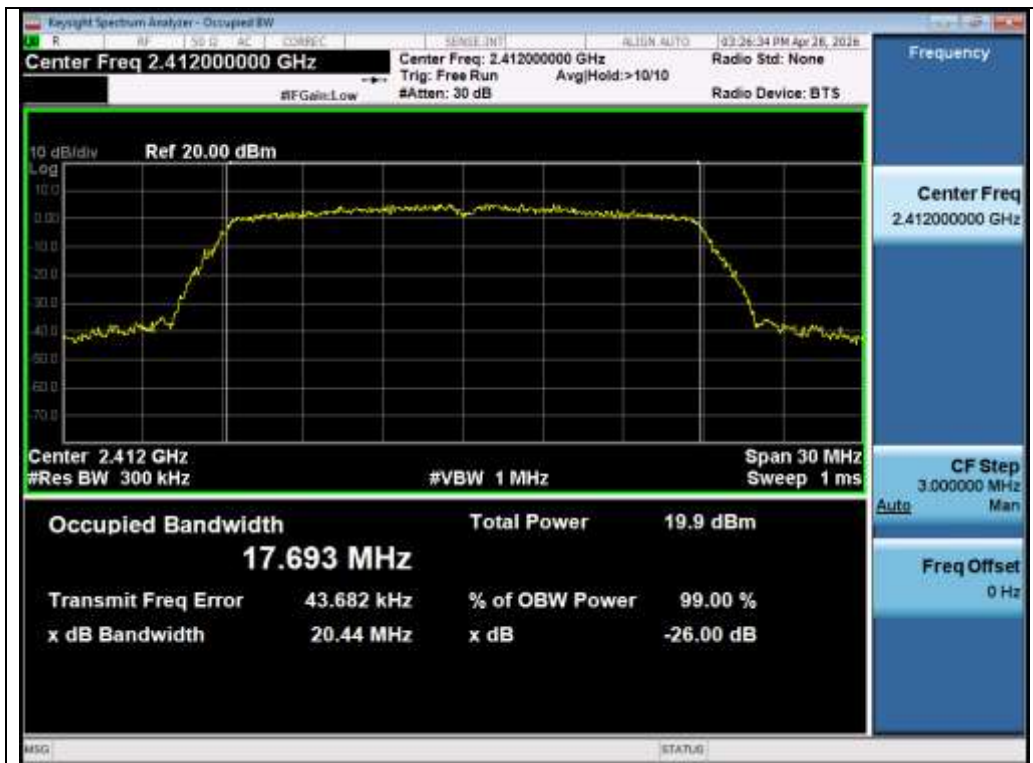


Test_Graph_802.11g_Chain A_2437_6Mbps_OBW



Test_Graph_802.11g_Chain A_2462_6Mbps_OBW

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Test_Graph_802.11n20_Chain A_2412_MCS0_OBW

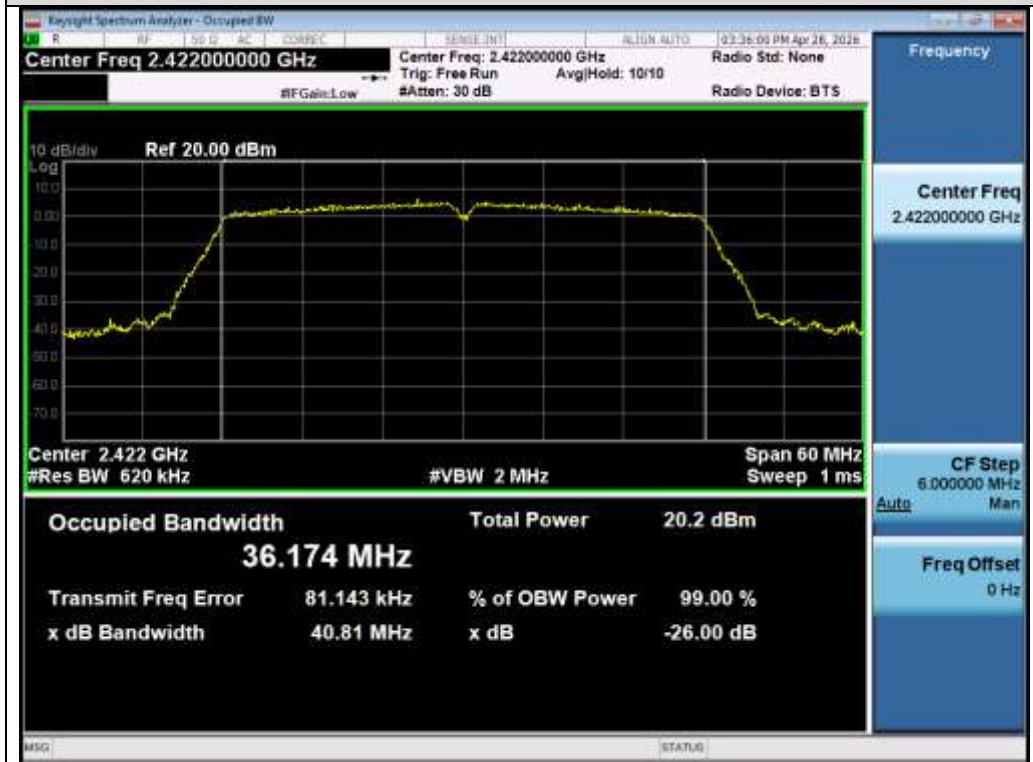


Test_Graph_802.11n20_Chain A_2437_MCS0_OBW

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Test_Graph_802.11n20_Chain A_2462_MCS0_OBW



Test_Graph_802.11n40_Chain A_2422_MCS0_OBW

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Test_Graph_802.11n40_Chain A_2437_MCS0_OBW



Test_Graph_802.11n40_Chain A_2452_MCS0_OBW

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Test_Graph_802.11b_Chain B_2412_1Mbps_OBW

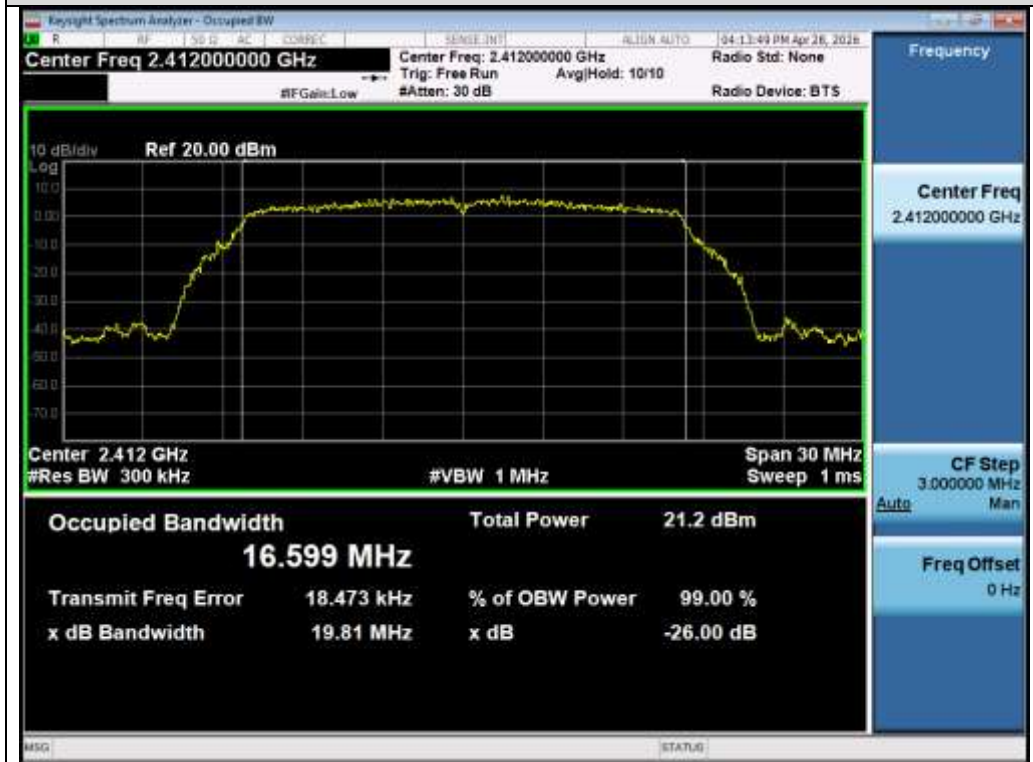


Test_Graph_802.11b_Chain B_2437_1Mbps_OBW

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Test_Graph_802.11b_Chain B_2462_1Mbps_OBW

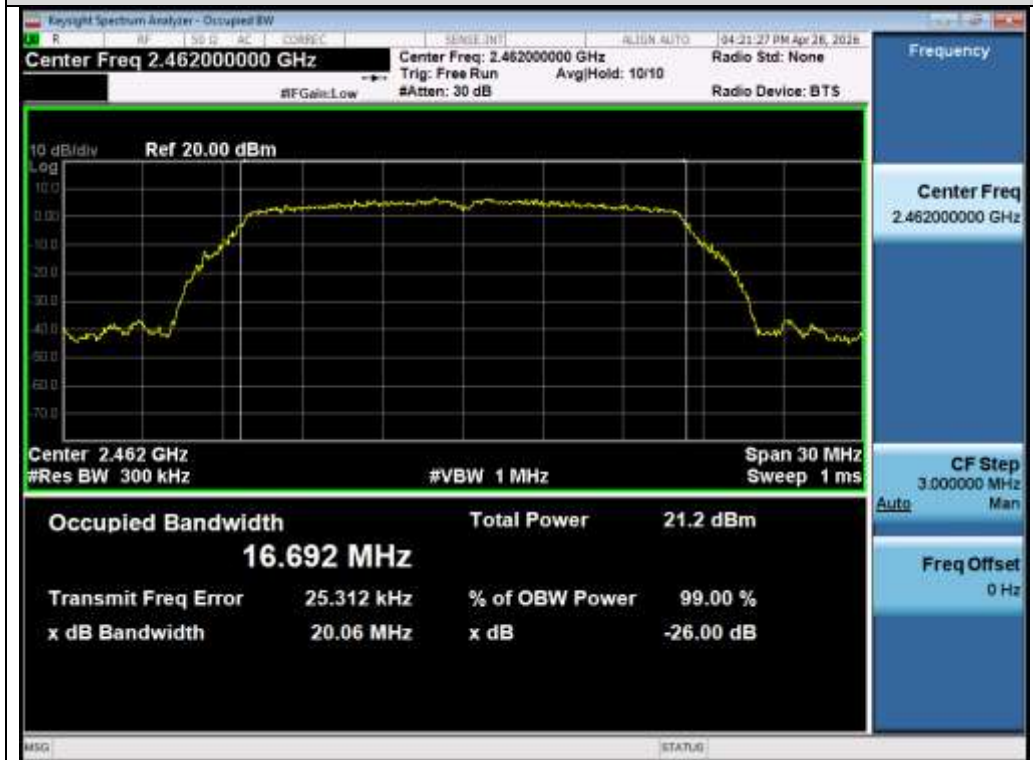


Test_Graph_802.11g_Chain B_2412_6Mbps_OBW

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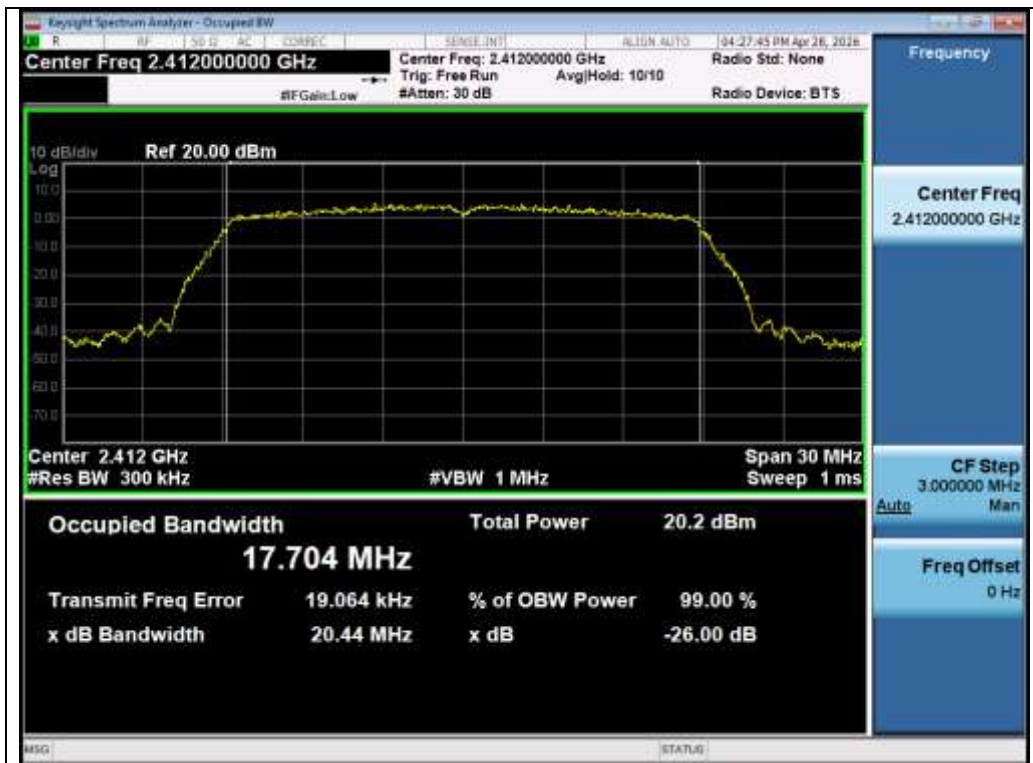


Test_Graph_802.11g_Chain B_2437_6Mbps_OBW



Test_Graph_802.11g_Chain B_2462_6Mbps_OBW

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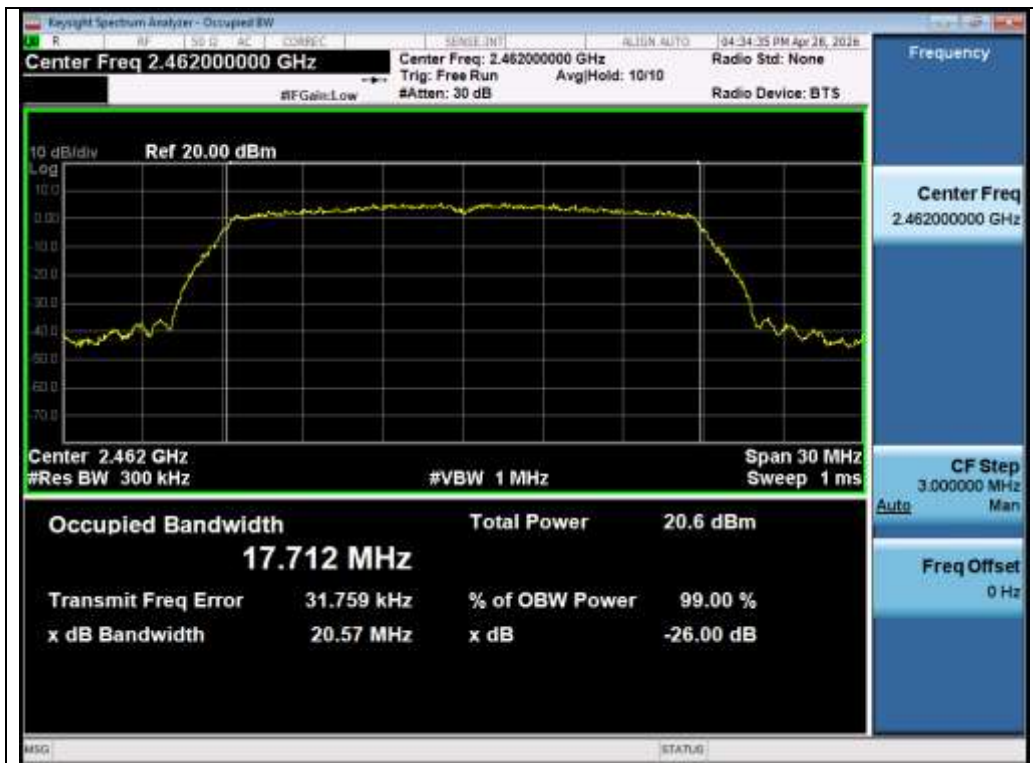


Test_Graph_802.11n20_Chain B_2412_MCS0_OBW



Test_Graph_802.11n20_Chain B_2437_MCS0_OBW

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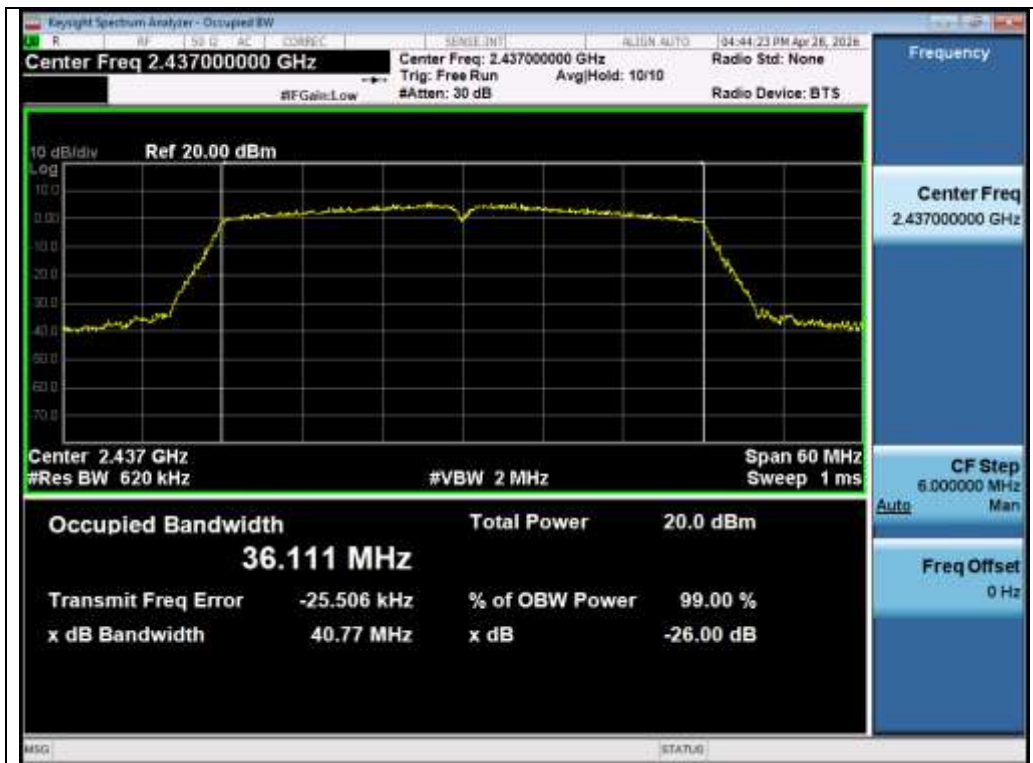


Test_Graph_802.11n20_Chain B_2462_MCS0_OBW



Test_Graph_802.11n40_Chain B_2422_MCS0_OBW

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Test_Graph_802.11n40_Chain B_2437_MCS0_OBW



Test_Graph_802.11n40_Chain B_2452_MCS0_OBW

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Test Graphs of DTS Bandwidth



Test_Graph_802.11b_Chain A_2412_1Mbps_DTSBW

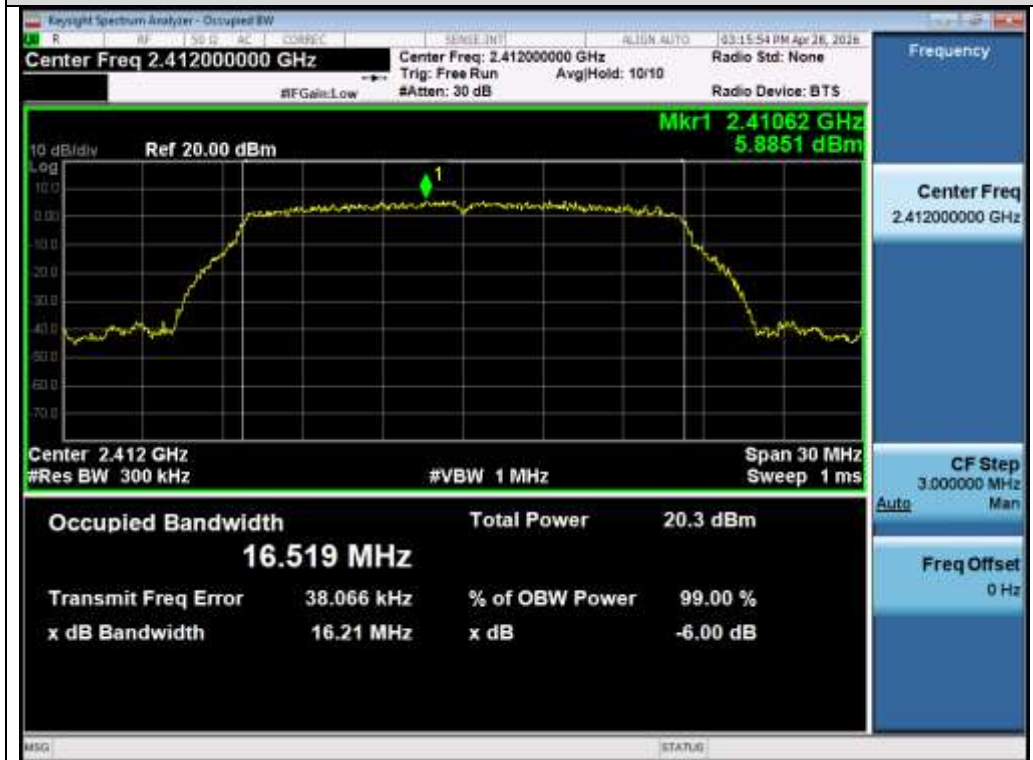


Test_Graph_802.11b_Chain A_2437_1Mbps_DTSBW

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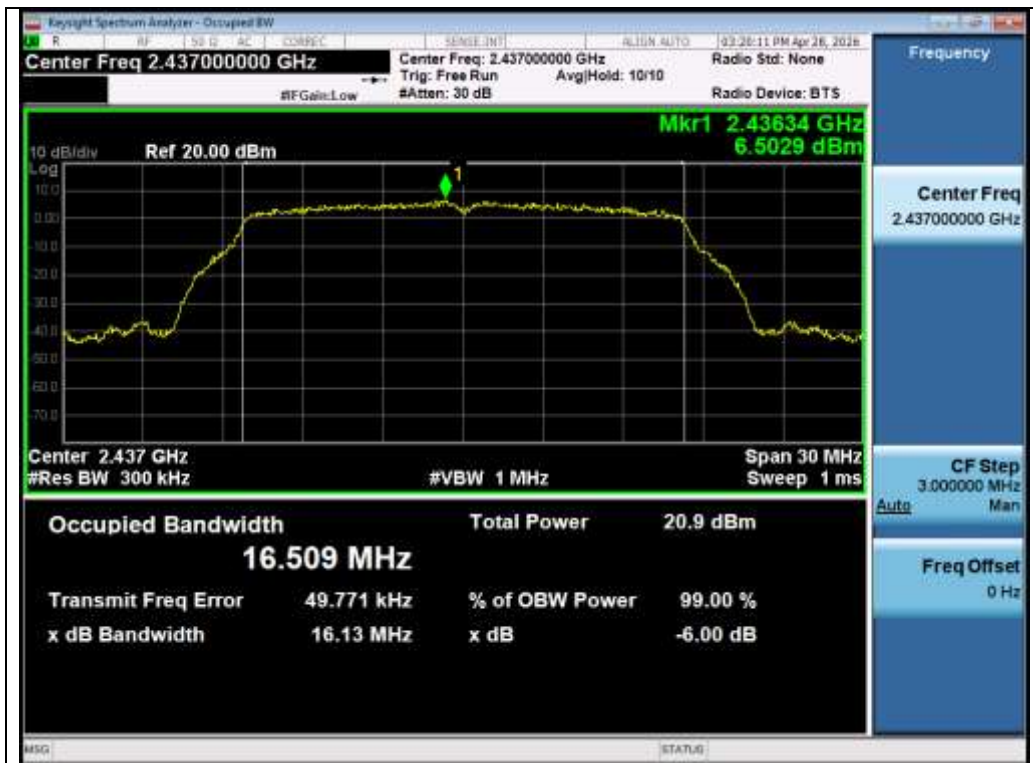


Test_Graph_802.11b_Chain A_2462_1Mbps_DTSBW



Test_Graph_802.11g_Chain A_2412_6Mbps_DTSBW

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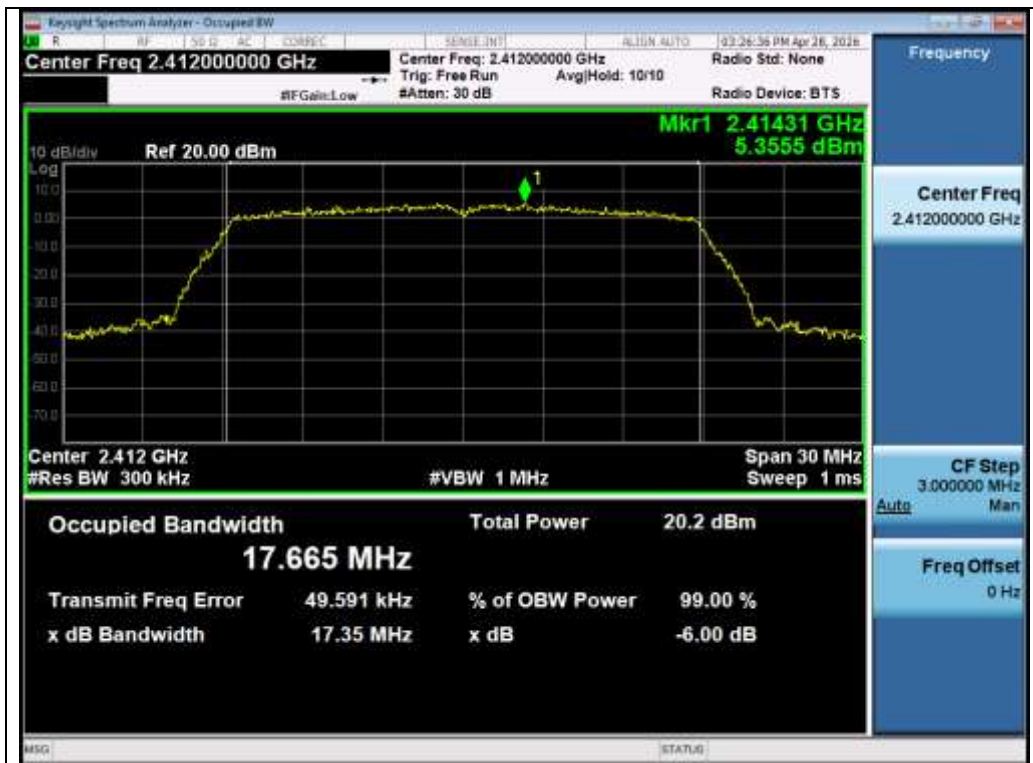


Test_Graph_802.11g_Chain A_2437_6Mbps_DTSBW

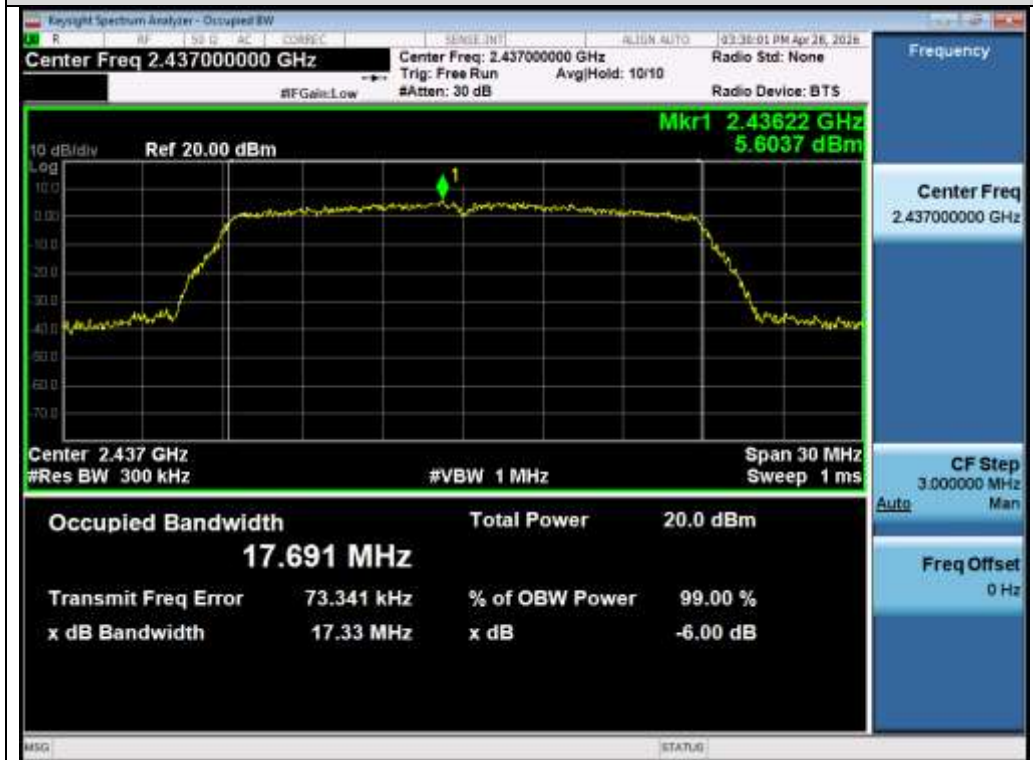


Test_Graph_802.11g_Chain A_2462_6Mbps_DTSBW

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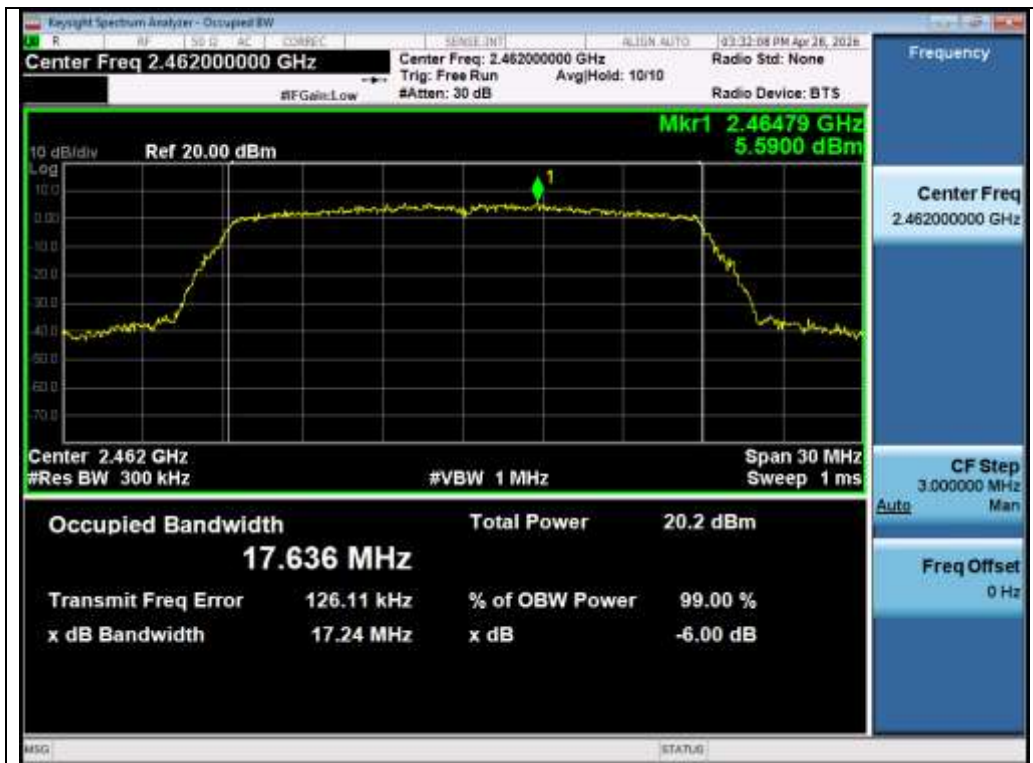


Test_Graph_802.11n20_Chain A_2412_MCS0_DTSBW

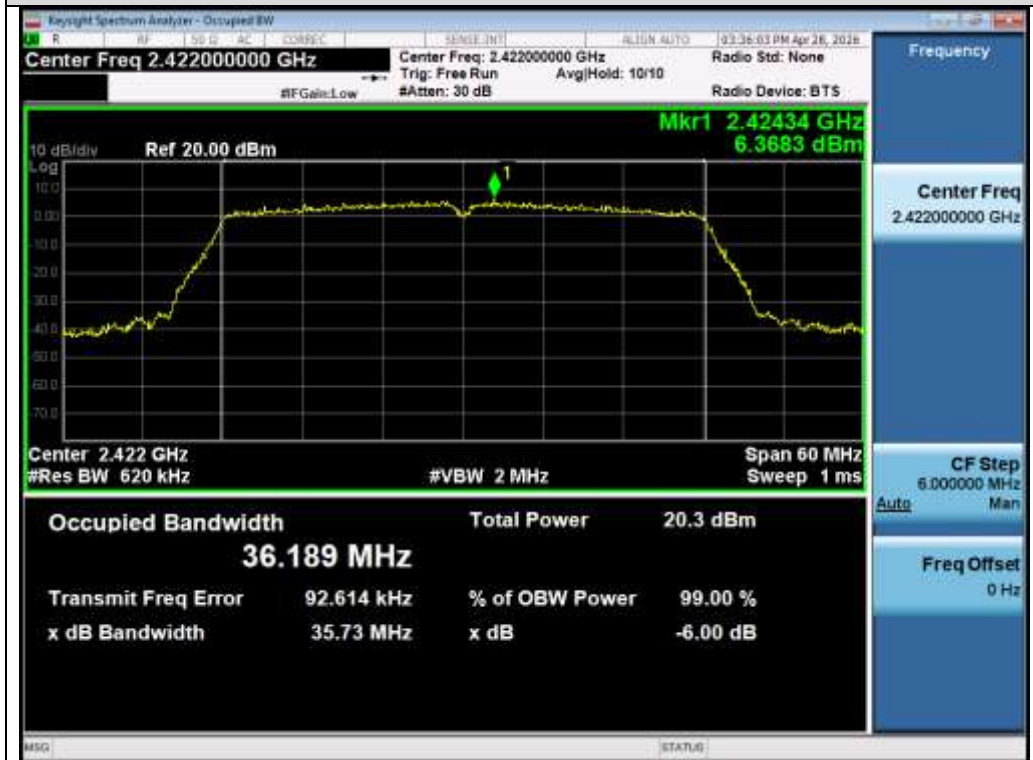


Test_Graph_802.11n20_Chain A_2437_MCS0_DTSBW

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Test_Graph_802.11n20_Chain A_2462_MCS0_DTSBW

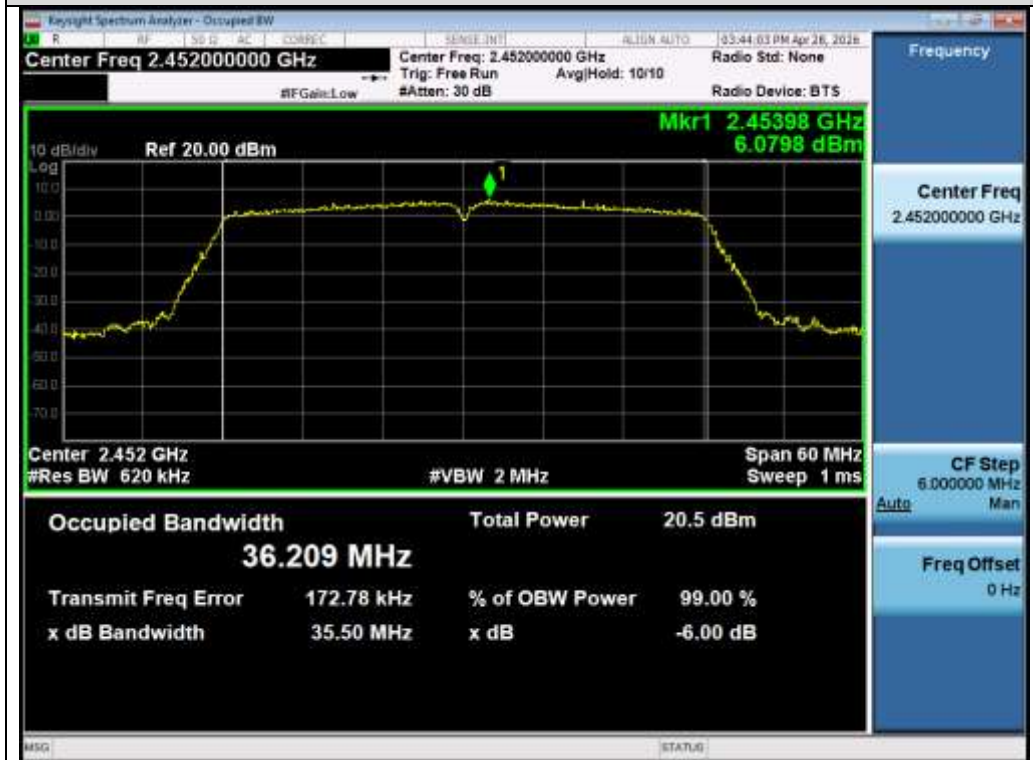


Test_Graph_802.11n40_Chain A_2422_MCS0_DTSBW

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Test_Graph_802.11n40_Chain A_2437_MCS0_DTSBW



Test_Graph_802.11n40_Chain A_2452_MCS0_DTSBW

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Test_Graph_802.11b_Chain B_2412_1Mbps_DTSBW

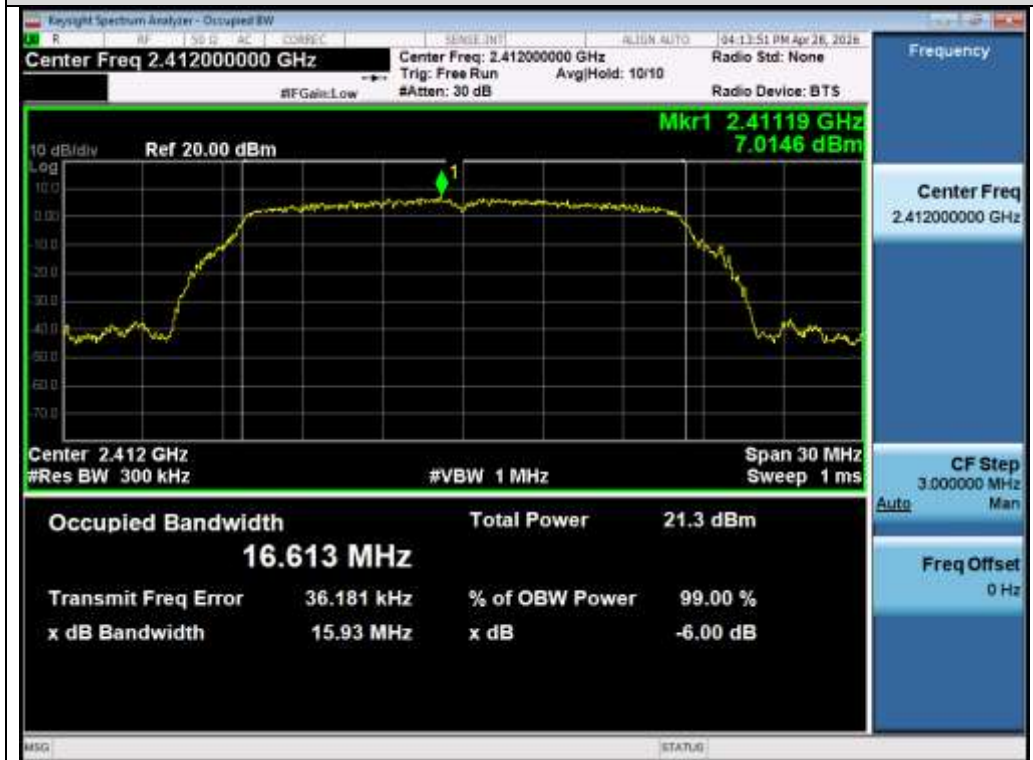


Test_Graph_802.11b_Chain B_2437_1Mbps_DTSBW

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Test_Graph_802.11b_Chain B_2462_1Mbps_DTSBW

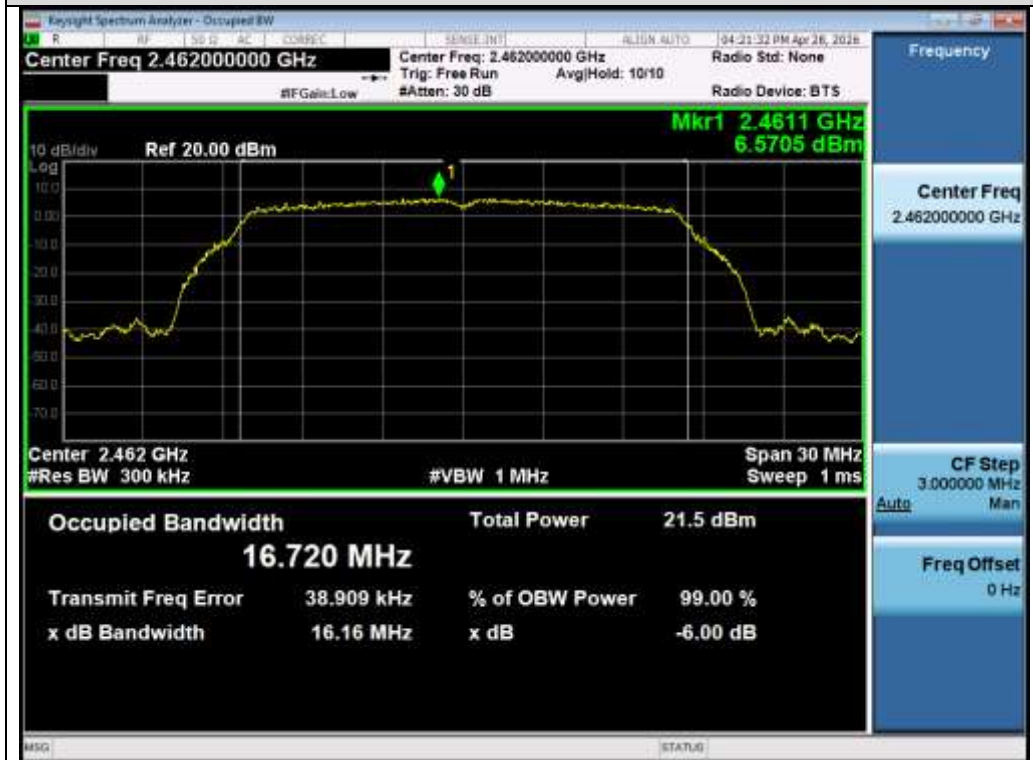


Test_Graph_802.11g_Chain B_2412_6Mbps_DTSBW

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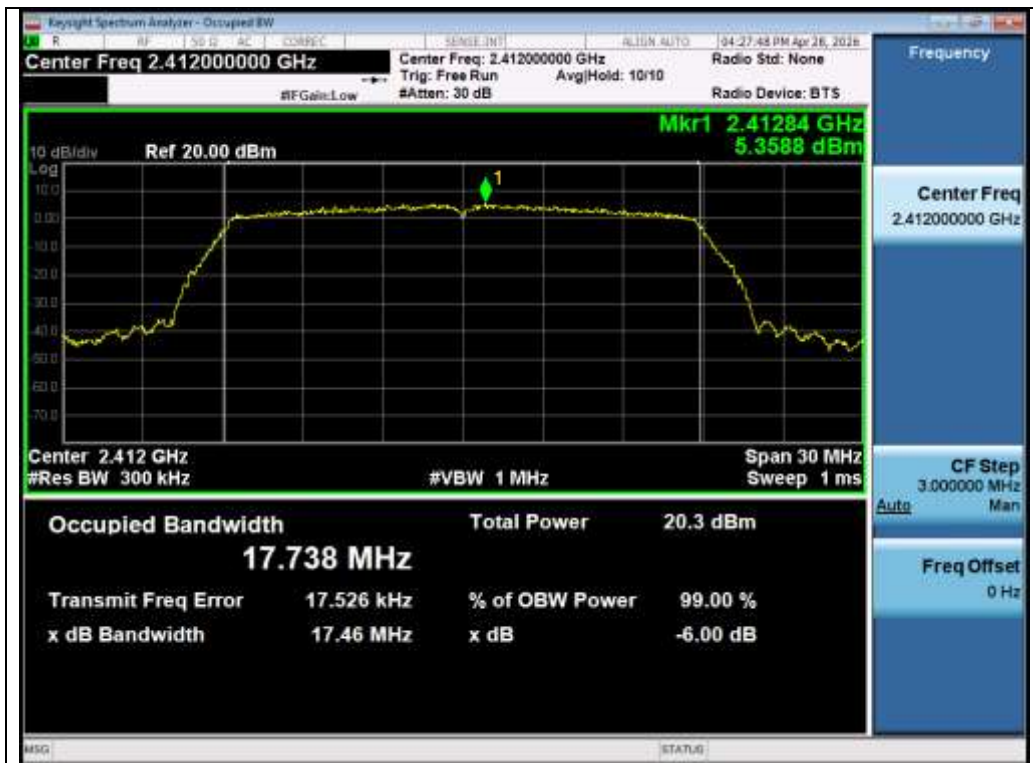


Test_Graph_802.11g_Chain B_2437_6Mbps_DTSBW

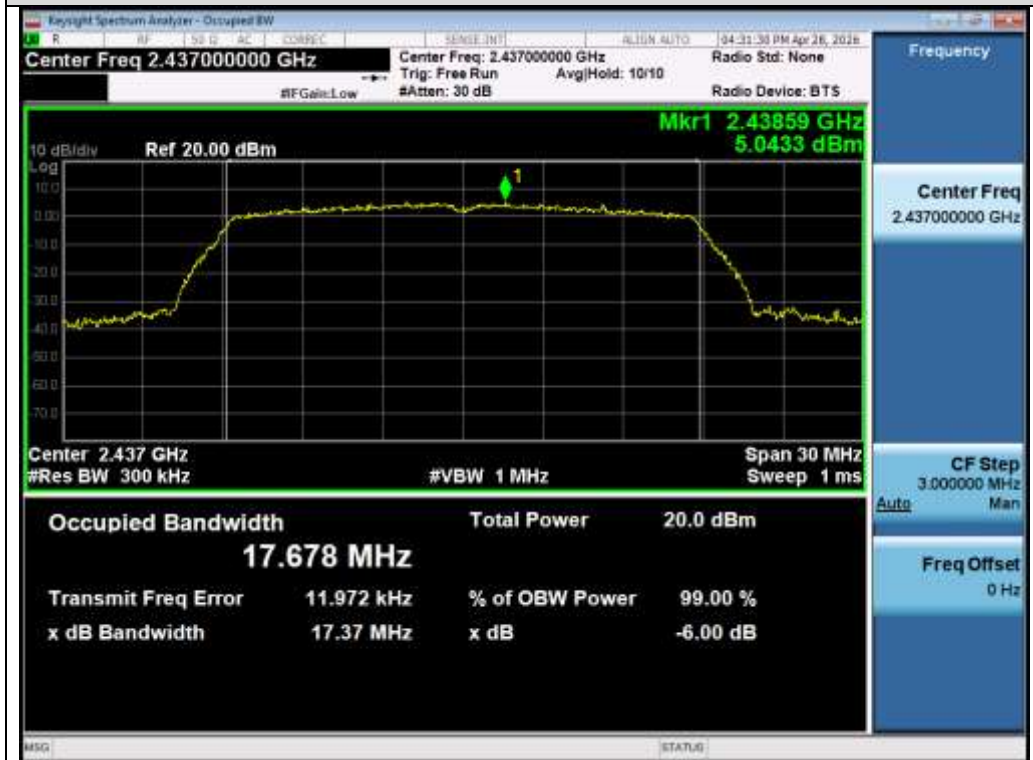


Test_Graph_802.11g_Chain B_2462_6Mbps_DTSBW

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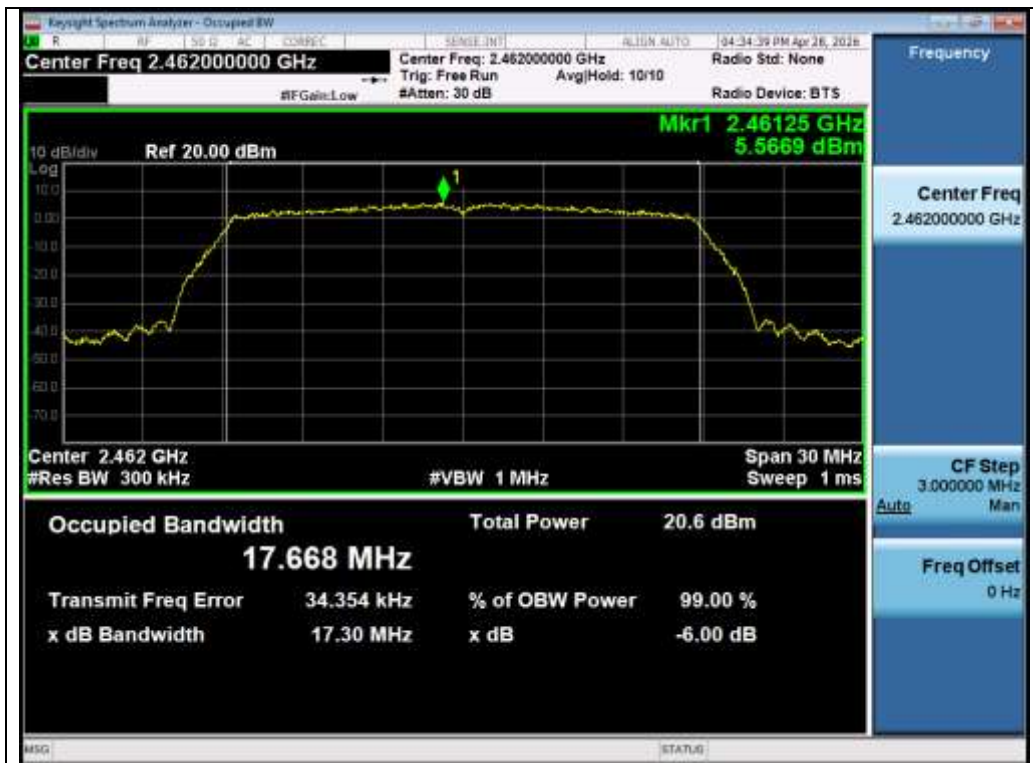


Test_Graph_802.11n20_Chain B_2412_MCS0_DTSBW

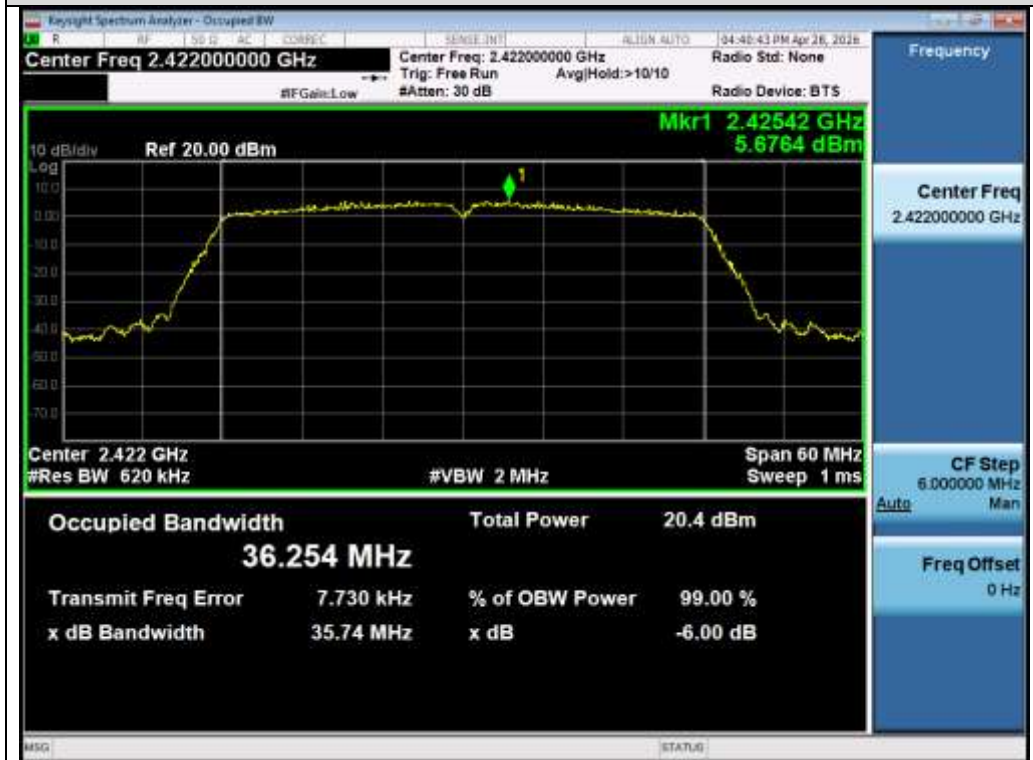


Test_Graph_802.11n20_Chain B_2437_MCS0_DTSBW

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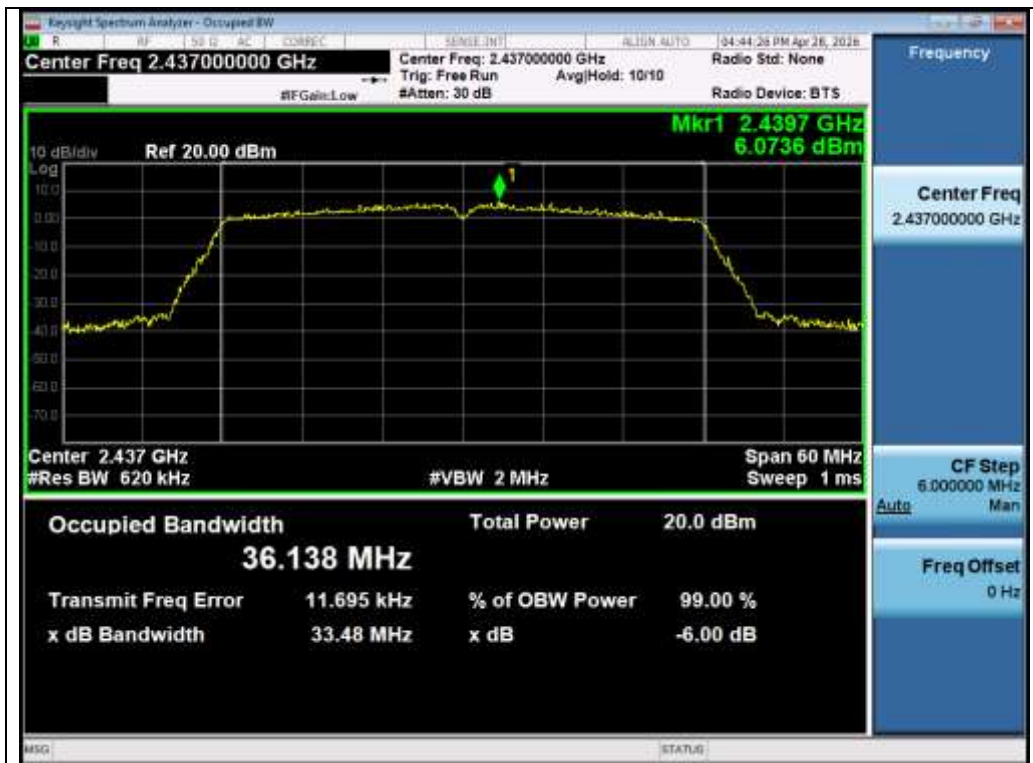


Test_Graph_802.11n20_Chain B_2462_MCS0_DTSBW

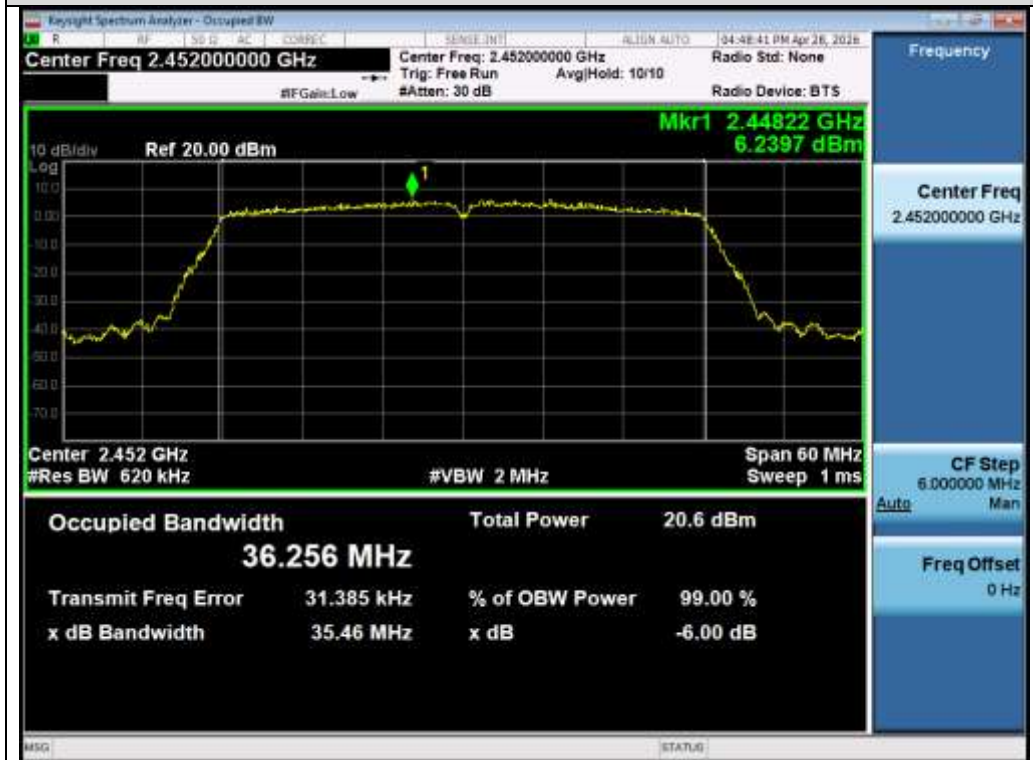


Test_Graph_802.11n40_Chain B_2422_MCS0_DTSBW

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Test_Graph_802.11n40_Chain B_2437_MCS0_DTSBW



Test_Graph_802.11n40_Chain B_2452_MCS0_DTSBW

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9. Power Spectral Density Measurement

9.1 Provisions Applicable

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

9.2 Measurement Procedure

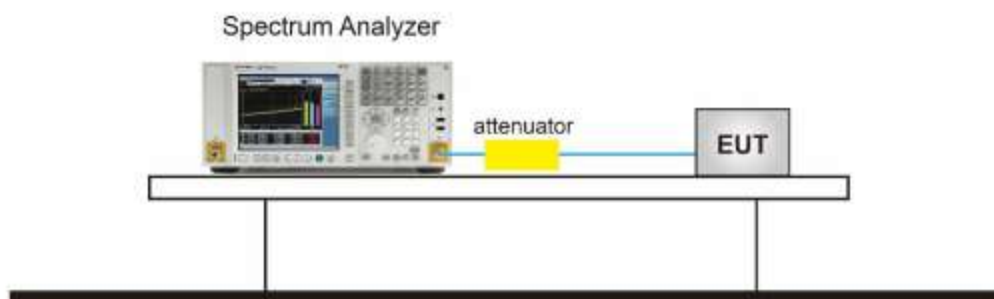
☒ For Peak power spectral density test:

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
3. Set the RBW = 3 kHz.
4. Set the VBW $\geq$ 10 kHz.
5. Set the Span $\geq$ [1.5 $\times$ DTS bandwidth].
6. Sweep time=Auto couple.
7. Detector function=Peak.
8. Trace Mode=Max hold.
9. When the measurement bandwidth of the maximum PSD is 3 kHz, a constant factor of $10 \cdot \log(3\text{kHz}/20\text{kHz}) = -8.23$ dB is added to the measurement result.
10. Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.
11. The indicated level is the peak output power, after any corrections for external attenuators and cables.

☐ For Average power spectral density test:

1. The testing follows the ANSI C63.10 Section 11.10.5 Method AVPSD.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
3. Set Span to at least 1.5 times the OBW.
4. Set RBW to: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
5. Set VBW $\geq$ [3 $\times$ RBW].
6. Sweep Time=Auto couple.
7. Detector function=RMS (i.e., power averaging).
8. Trace average at least 100 traces in power averaging (rms) mode.
9. When the measurement bandwidth of the maximum PSD is 3 kHz, a constant factor of $10 \cdot \log(3\text{kHz}/20\text{kHz}) = -8.23$ dB is added to the measurement result.
10. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
11. Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add $[10 \log (1/0.25)] = 6$ dB if the duty cycle is 25%.
12. Record the test results in the report.

9.3 Measurement Setup (Block Diagram of Configuration)



9.4 Measurement Result

Test Data of Conducted Output Power Spectral Density-Chain A				
Test Mode	Test Frequency (MHz)	Power Spectral density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
802.11b	2412	-6.626	≤8	Pass
	2437	-6.722	≤8	Pass
	2462	-6.865	≤8	Pass
802.11g	2412	-10.811	≤8	Pass
	2437	-11.054	≤8	Pass
	2462	-11.539	≤8	Pass
802.11n20	2412	-9.250	≤8	Pass
	2437	-11.240	≤8	Pass
	2462	-11.272	≤8	Pass
802.11n40	2422	-13.580	≤8	Pass
	2437	-11.474	≤8	Pass
	2452	-13.690	≤8	Pass

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Test Data of Conducted Output Power Spectral Density-Chain B				
Test Mode	Test Frequency (MHz)	Power Spectral density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
802.11b	2412	-7.709	≤8	Pass
	2437	-5.879	≤8	Pass
	2462	-7.060	≤8	Pass
802.11g	2412	-8.233	≤8	Pass
	2437	-8.881	≤8	Pass
	2462	-8.256	≤8	Pass
802.11n20	2412	-11.440	≤8	Pass
	2437	-10.759	≤8	Pass
	2462	-10.447	≤8	Pass
802.11n40	2422	-14.248	≤8	Pass
	2437	-13.975	≤8	Pass
	2452	-13.640	≤8	Pass

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Test Data of Conducted Output Power Spectral Density-MIMO				
Test Mode	Test Frequency (MHz)	Power Spectral density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
802.11n20	2412	-7.20	≤7.6	Pass
	2437	-7.98	≤7.6	Pass
	2462	-7.83	≤7.6	Pass
802.11n40	2422	-10.89	≤7.6	Pass
	2437	-9.54	≤7.6	Pass
	2452	-10.65	≤7.6	Pass

Note:

1. The Total Power Spectral Density (dBm) = $10 \cdot \log \{10^{(\text{Ant1 PSD} / 10)} + 10^{(\text{Ant2 PSD} / 10)}\}$.
2. Note: For antenna gains greater than 6 dBi, the power density is reduced by the amount that the antenna gain exceeds 6 dBi, in order to comply with applicable limits.
The limit is determined as: Limit = 8- (Antenna Gain - 6 dBi).

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Test Graphs of Conducted Output Power Spectral Density



Test_Graph_802.11b_Chain A_2412_1Mbps_PSD



Test_Graph_802.11b_Chain A_2437_1Mbps_PSD

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Test_Graph_802.11b_Chain A_2462_1Mbps_PSD



Test_Graph_802.11g_Chain A_2412_6Mbps_PSD

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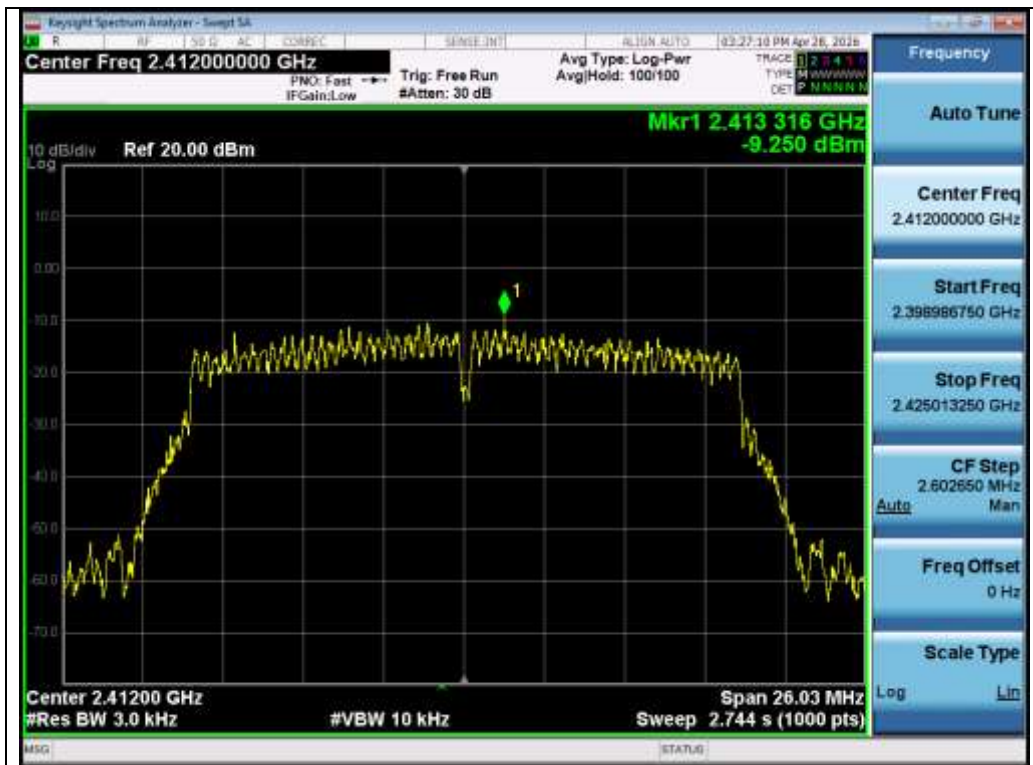


Test_Graph_802.11g_Chain A_2437_6Mbps_PSD

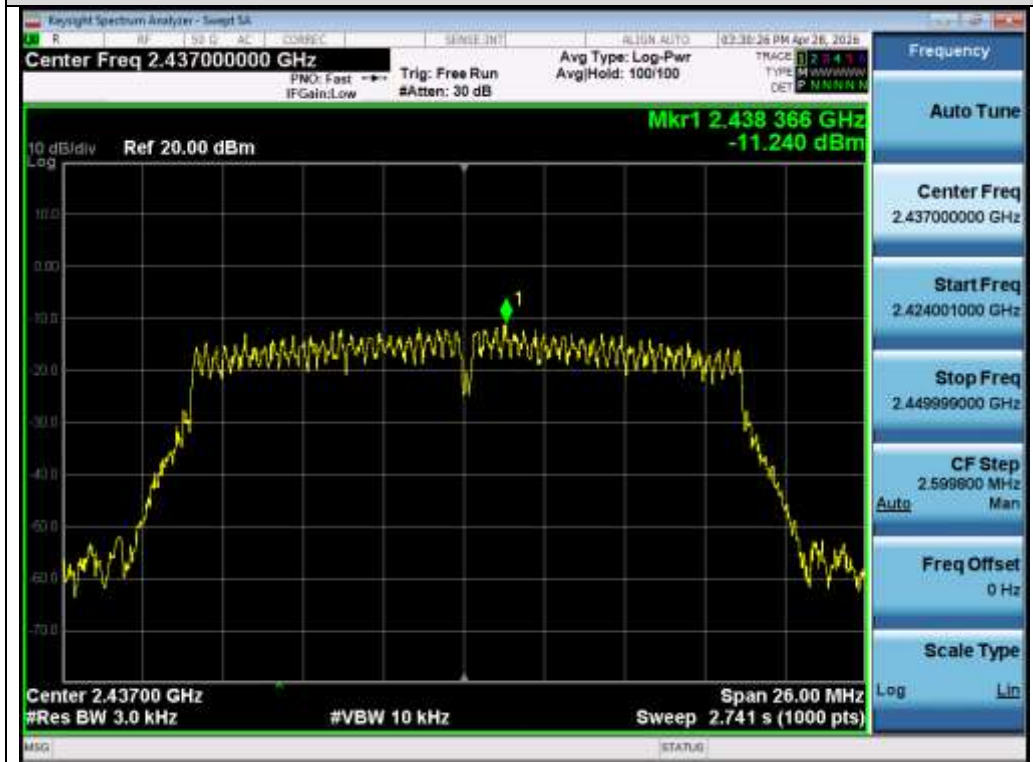


Test_Graph_802.11g_Chain A_2462_6Mbps_PSD

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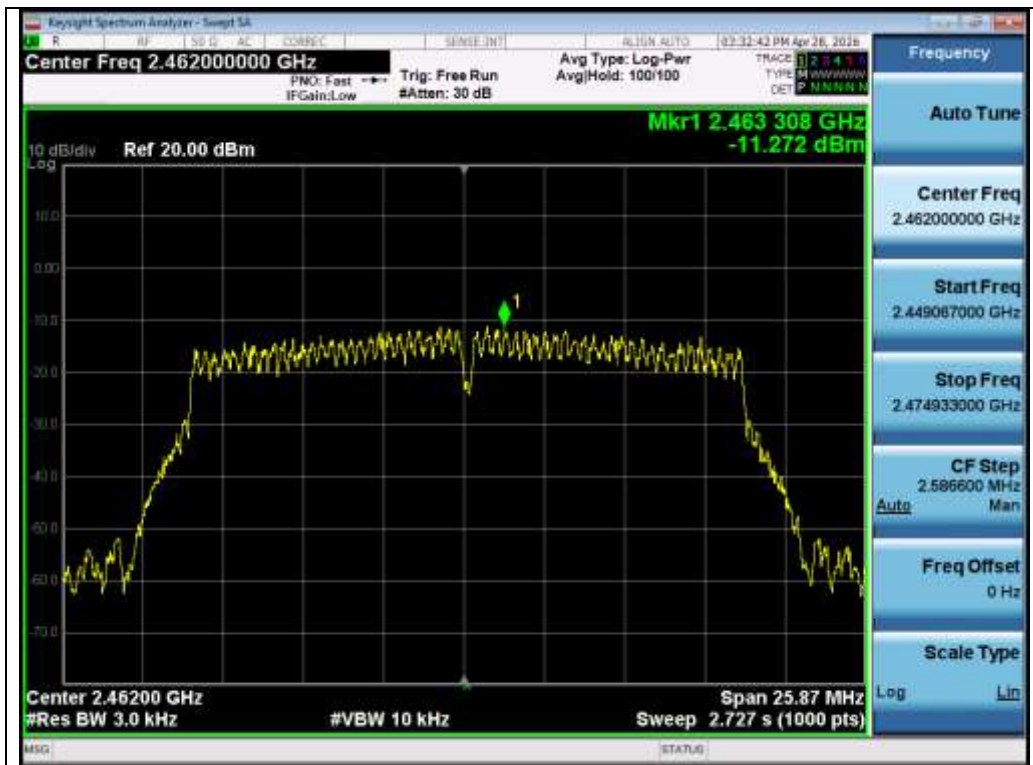


Test_Graph_802.11n20_Chain A_2412_MCS0_PSD

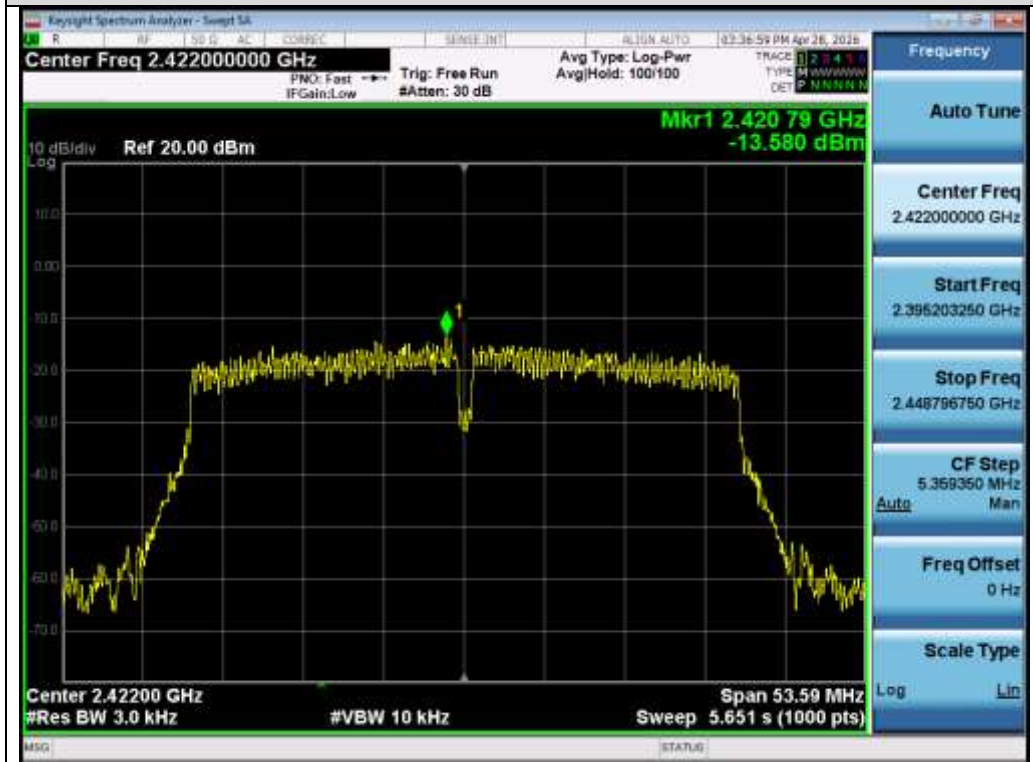


Test_Graph_802.11n20_Chain A_2437_MCS0_PSD

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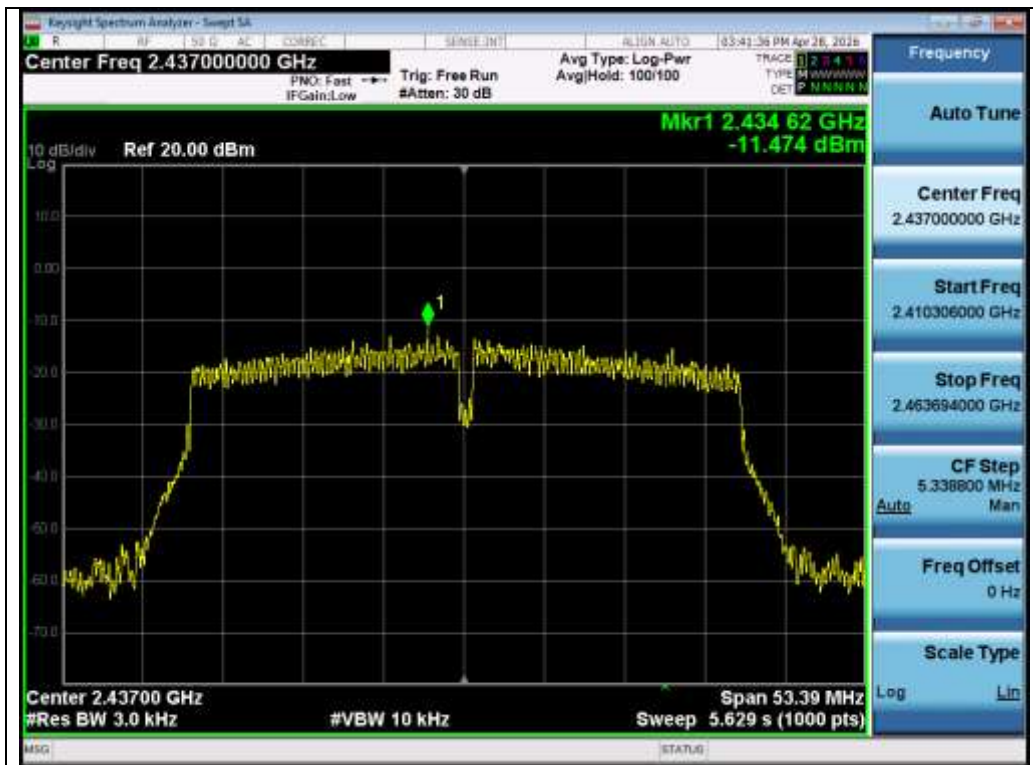


Test_Graph_802.11n20_Chain A_2462_MCS0_PSD

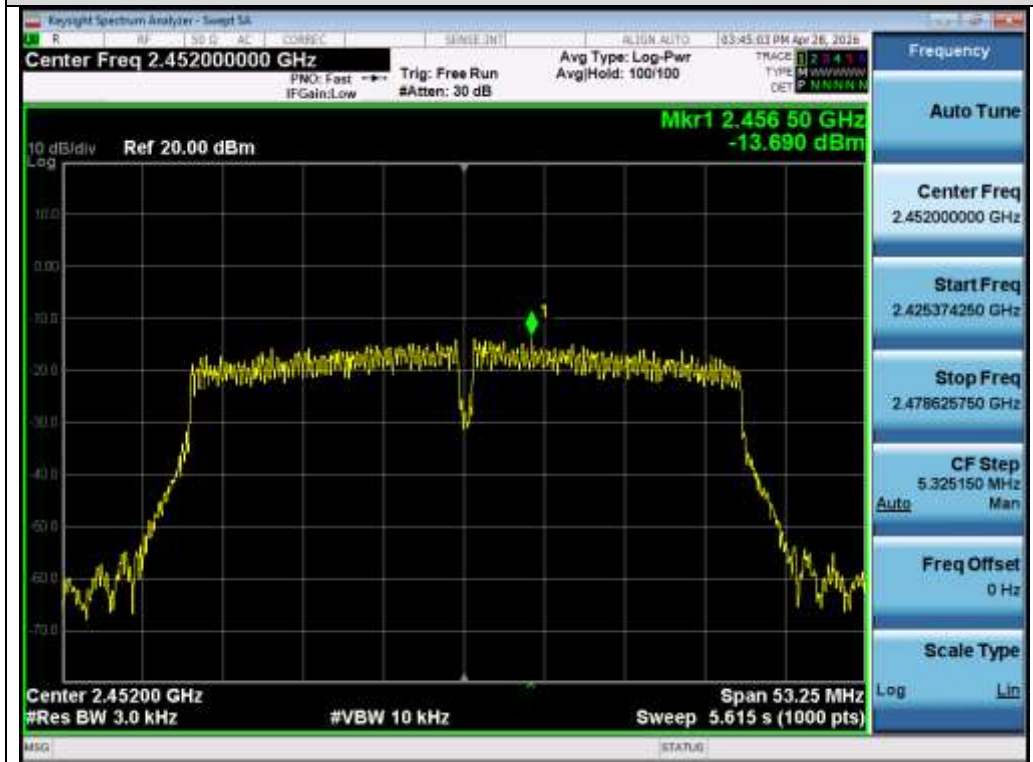


Test_Graph_802.11n40_Chain A_2422_MCS0_PSD

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Test_Graph_802.11n40_Chain A_2437_MCS0_PSD



Test_Graph_802.11n40_Chain A_2452_MCS0_PSD

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Test_Graph_802.11b_Chain B_2412_1Mbps_PSD

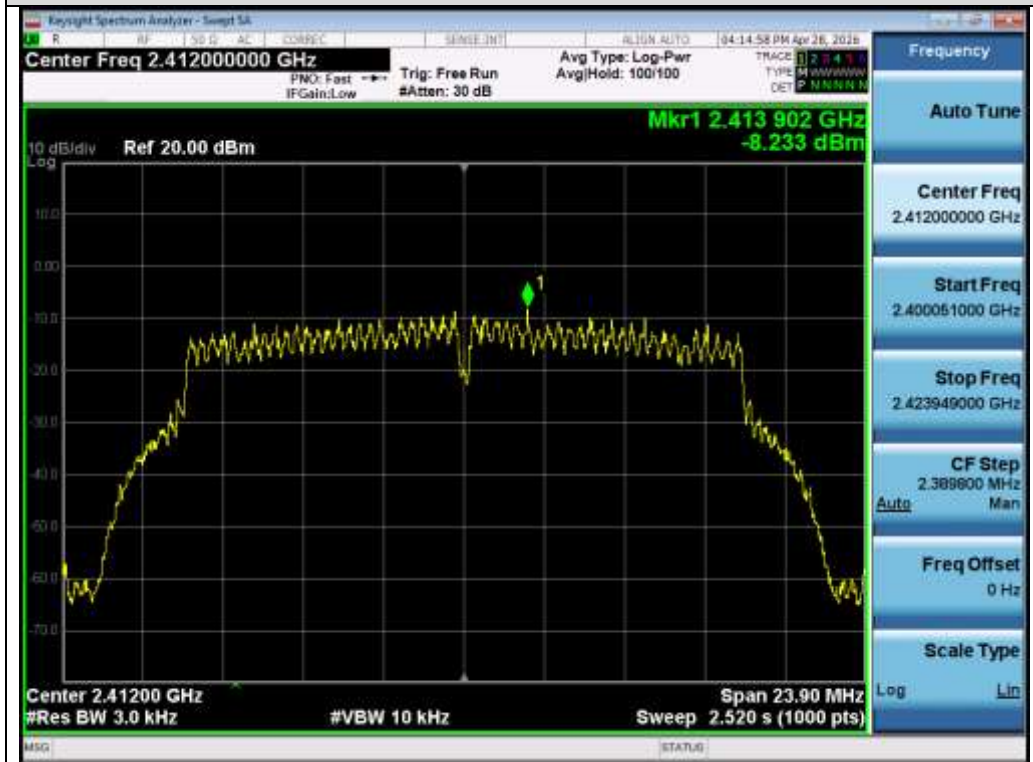


Test_Graph_802.11b_Chain B_2437_1Mbps_PSD

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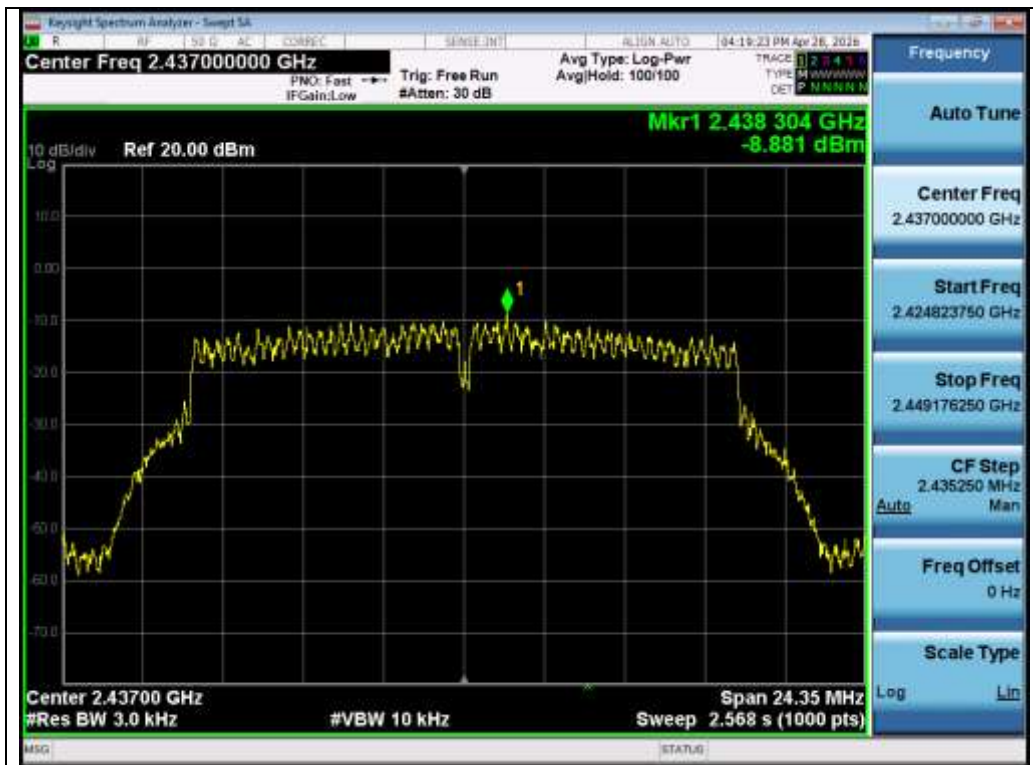


Test_Graph_802.11b_Chain B_2462_1Mbps_PSD



Test_Graph_802.11g_Chain B_2412_6Mbps_PSD

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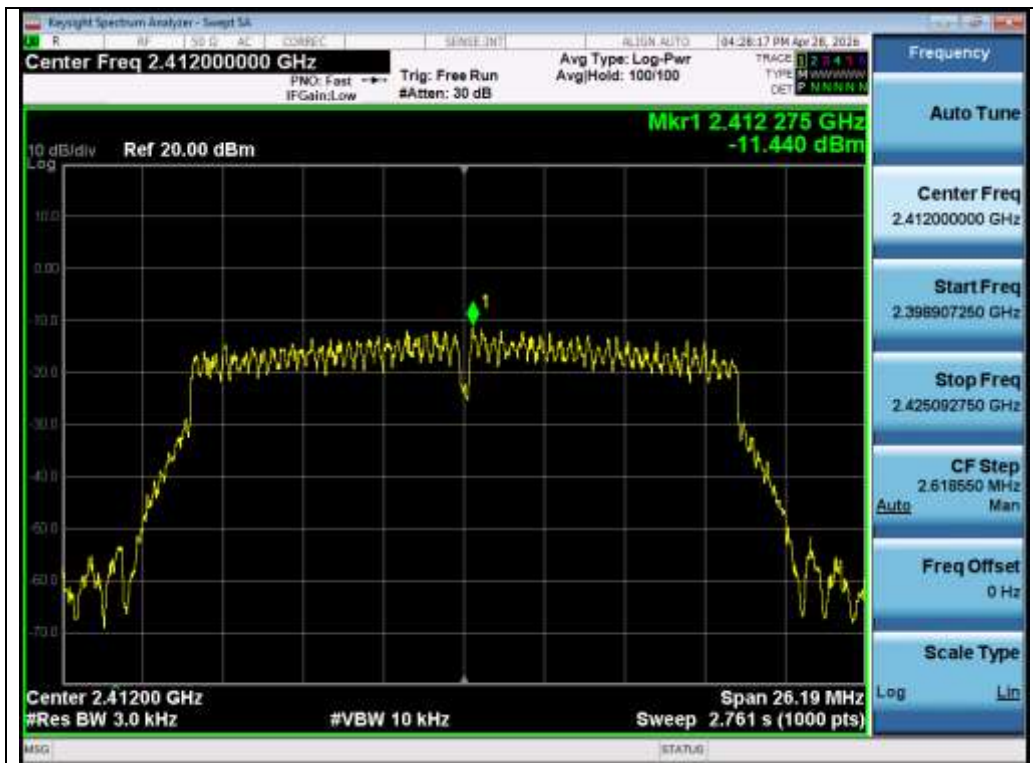
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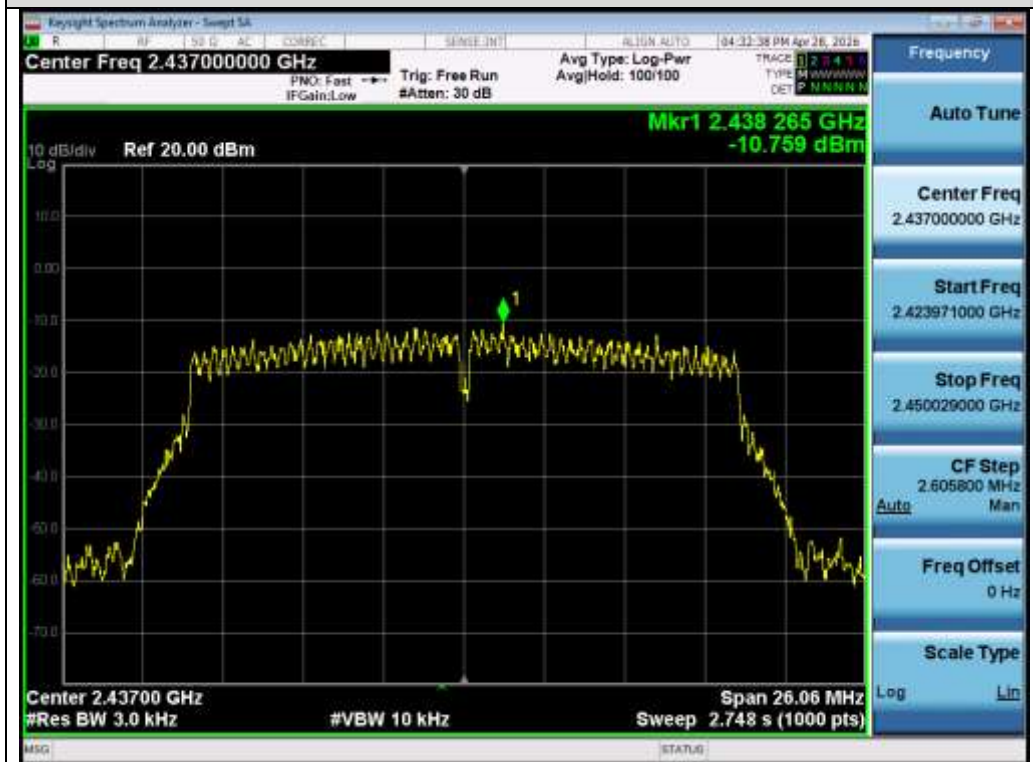
Test_Graph_802.11g_Chain B_2462_6Mbps_PSD

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Attestation of Global Compliance(Shenzhen)Co., Ltd
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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

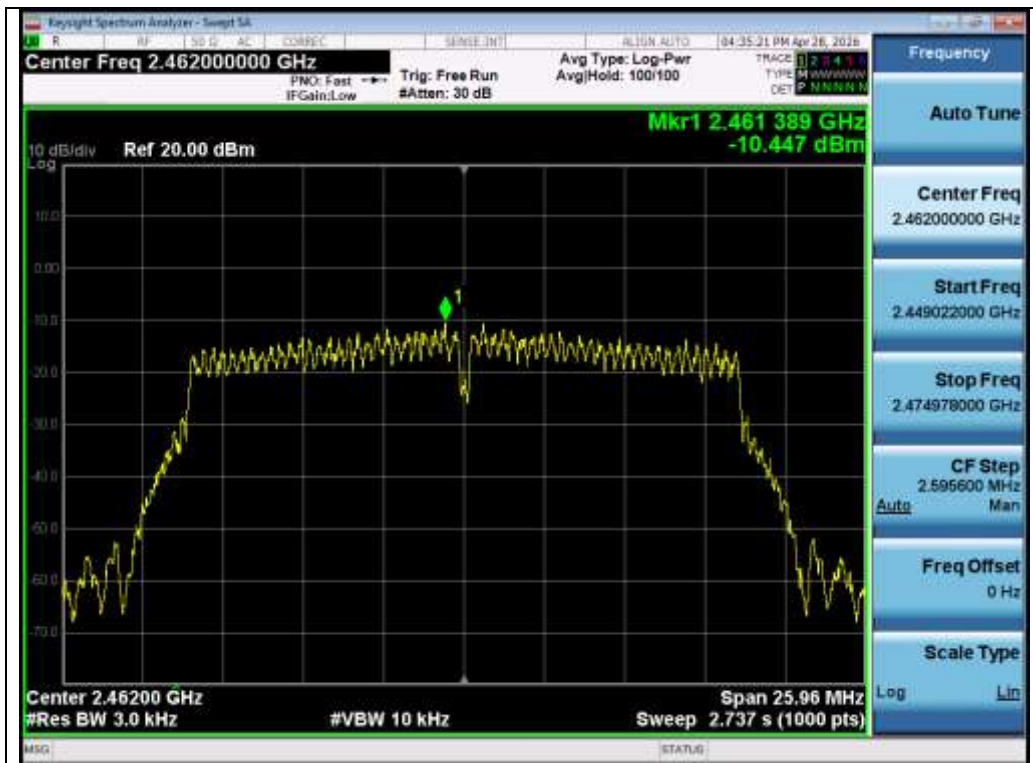


Test_Graph_802.11n20_Chain B_2412_MCS0_PSD

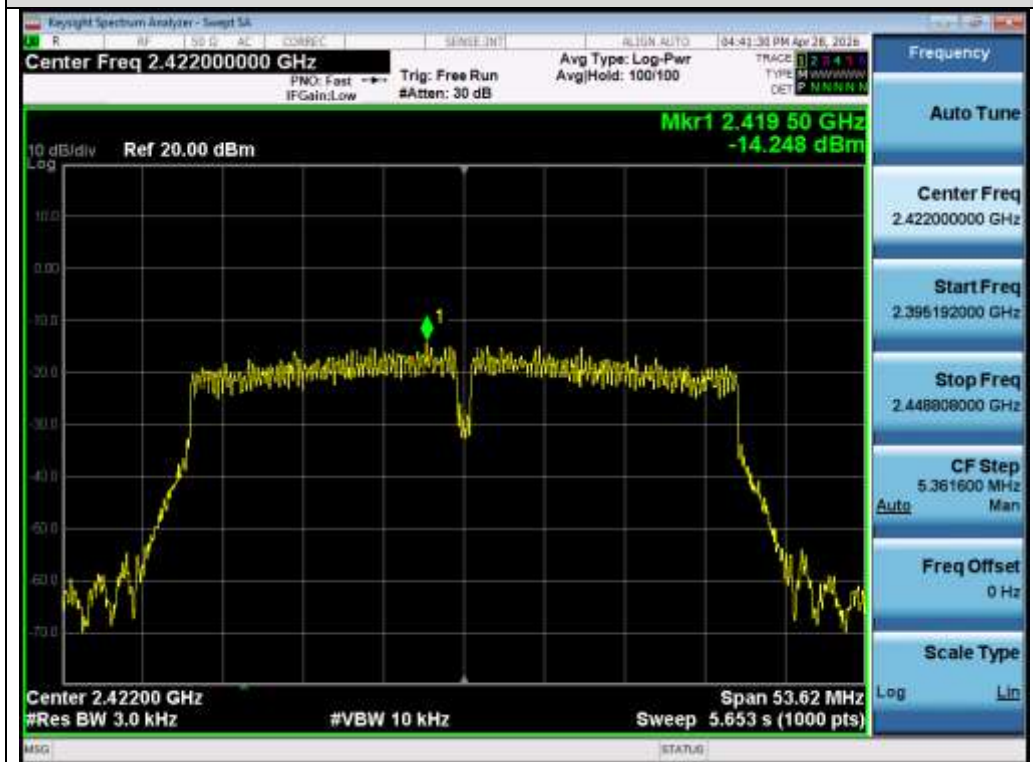


Test_Graph_802.11n20_Chain B_2437_MCS0_PSD

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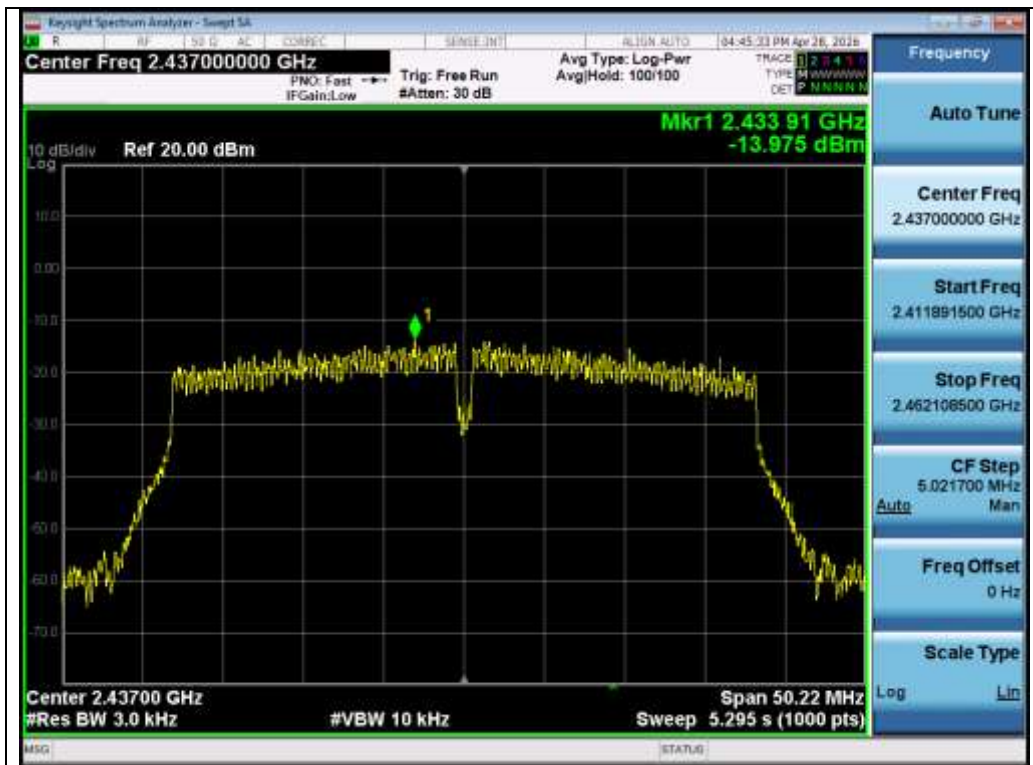


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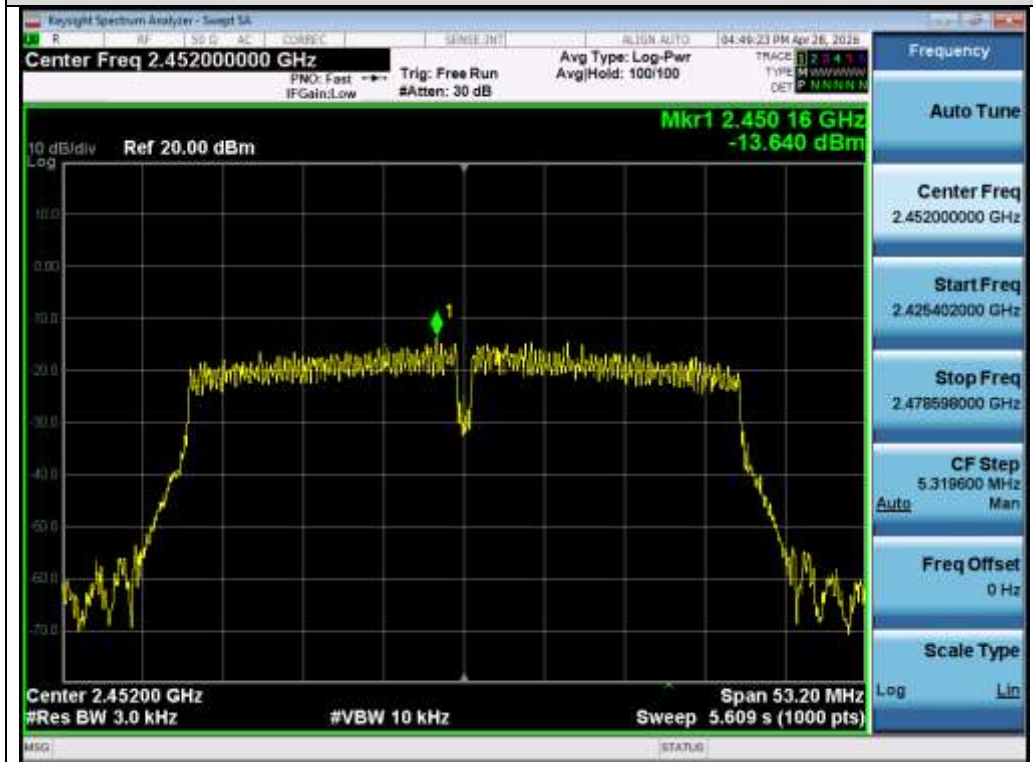


Test_Graph_802.11n40_Chain B_2422_MCS0_PSD

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Test_Graph_802.11n40_Chain B_2437_MCS0_PSD



Test_Graph_802.11n40_Chain B_2452_MCS0_PSD

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10. Conducted Band Edge and Out-of-Band Emissions

10.1 Provisions Applicable

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

10.2 Measurement Procedure

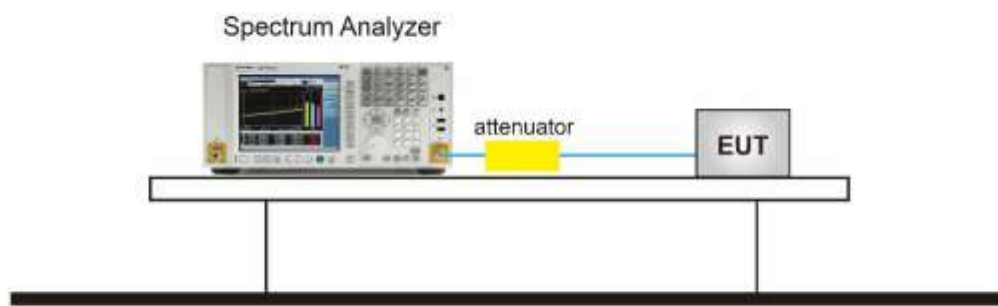
Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

- Step 1: Measurement Procedure In-Band Reference Level
 1. Set instrument center frequency to DTS channel center frequency.
 2. Set the span to ≥ 1.5 times the DTS bandwidth.
 3. Set the RBW = 100 kHz.
 4. Set the VBW $\geq 3 \times$ RBW.
 5. Detector = peak.
 6. Sweep time = auto couple.
 7. Trace mode = max hold.
 8. Allow trace to fully stabilize.
 9. Use the peak marker function to determine the maximum PSD level.
 10. Note that the channel found to contain the maximum PSD level can be used to establish the reference level.
 11. For reference level values, please refer to DTS bandwidth test.
- Step 2: Measurement Procedure Out of Band Emission
 1. Set RBW = 100 kHz.
 2. Set VBW ≥ 300 kHz.
 3. Detector = peak.
 4. Sweep = auto couple.
 5. Trace Mode = max hold.
 6. Allow trace to fully stabilize.
 7. Use the peak marker function to determine the maximum amplitude level.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

10.3 Measurement Setup (Block Diagram of Configuration)



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10.4 Measurement Result

Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands



Test_Graph_802.11b_Chain A_2412_1Mbps_Reference Level



Test_Graph_802.11b_Chain A_2412_1Mbps_Lower Band Emissions

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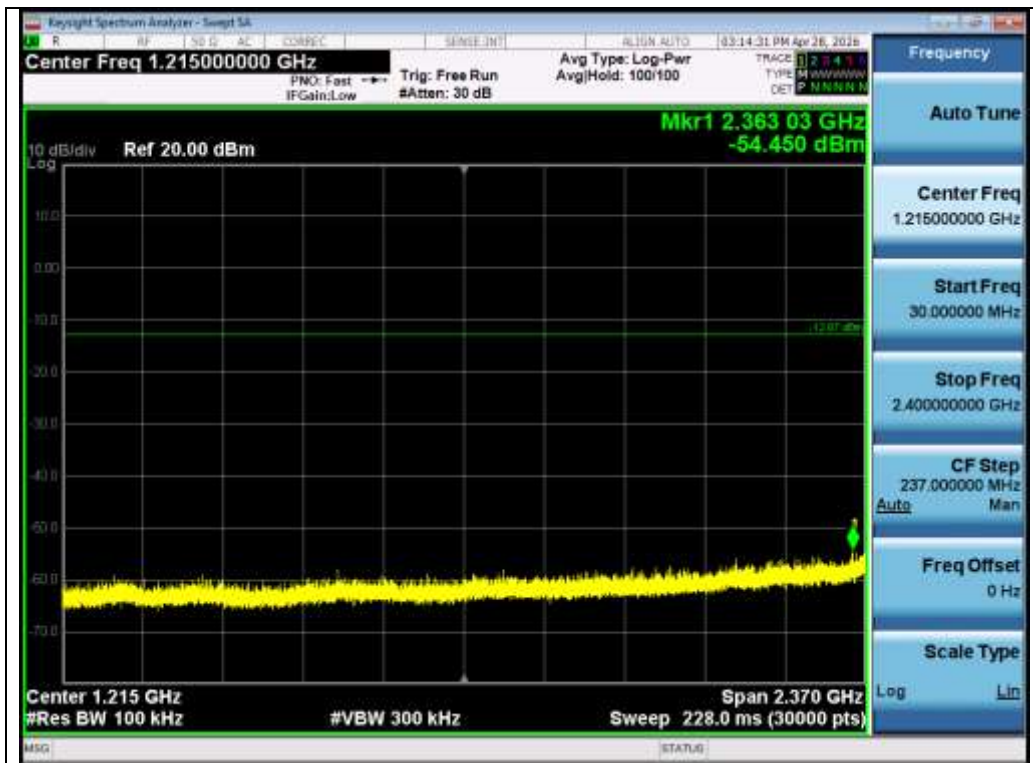


Test_Graph_802.11b_Chain A_2412_1Mbps_Higher Band Emissions



Test_Graph_802.11b_Chain A_2437_1Mbps_Reference Level

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Test_Graph_802.11b_Chain A_2437_1Mbps_Lower Band Emissions

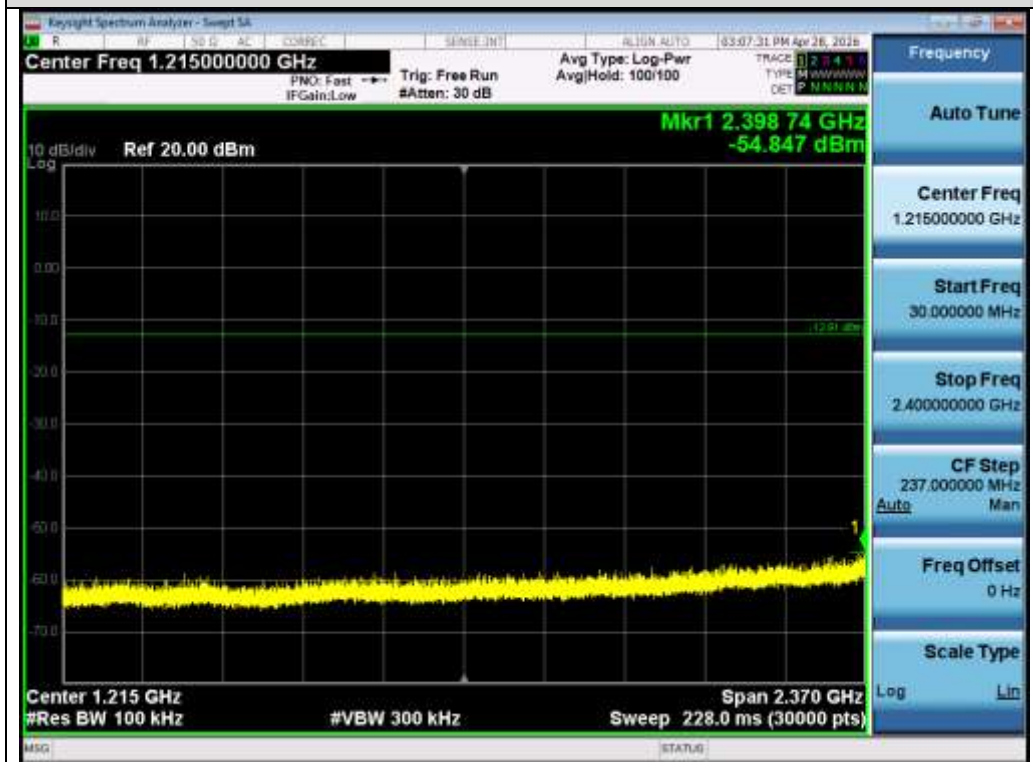


Test_Graph_802.11b_Chain A_2437_1Mbps_Higher Band Emissions

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Test_Graph_802.11b_Chain A_2462_1Mbps_Reference Level



Test_Graph_802.11b_Chain A_2462_1Mbps_Lower Band Emissions

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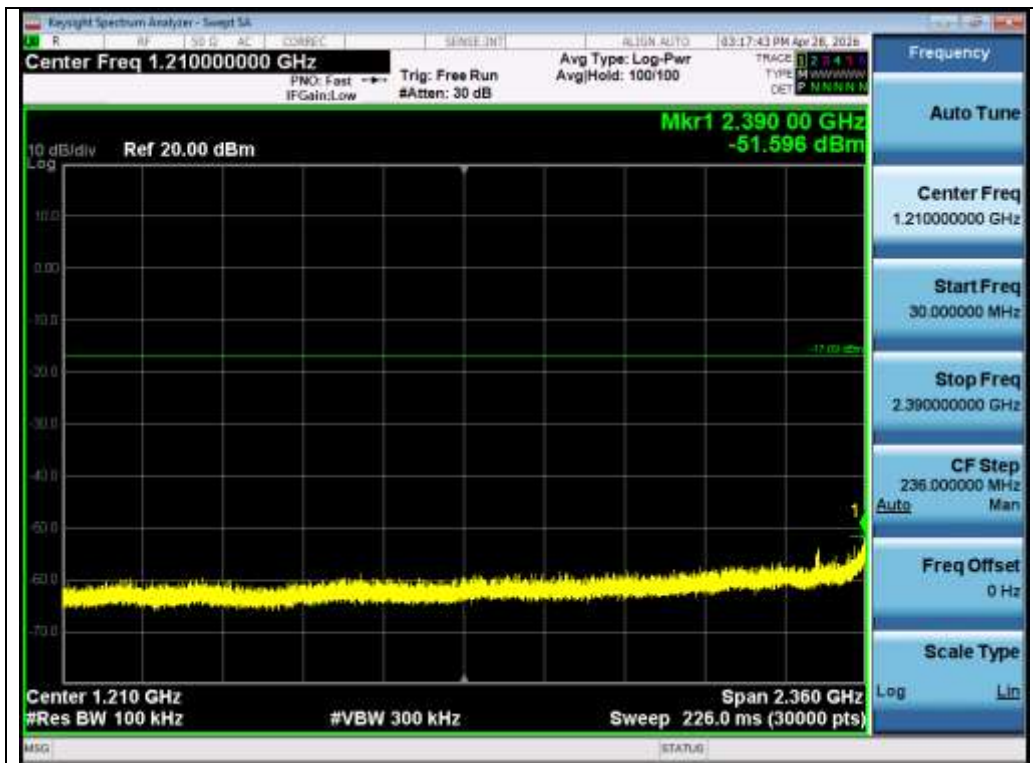


Test_Graph_802.11b_Chain A_2462_1Mbps_Higher Band Emissions



Test_Graph_802.11g_Chain A_2412_6Mbps_Reference Level

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Test_Graph_802.11g_Chain A_2412_6Mbps_Lower Band Emissions

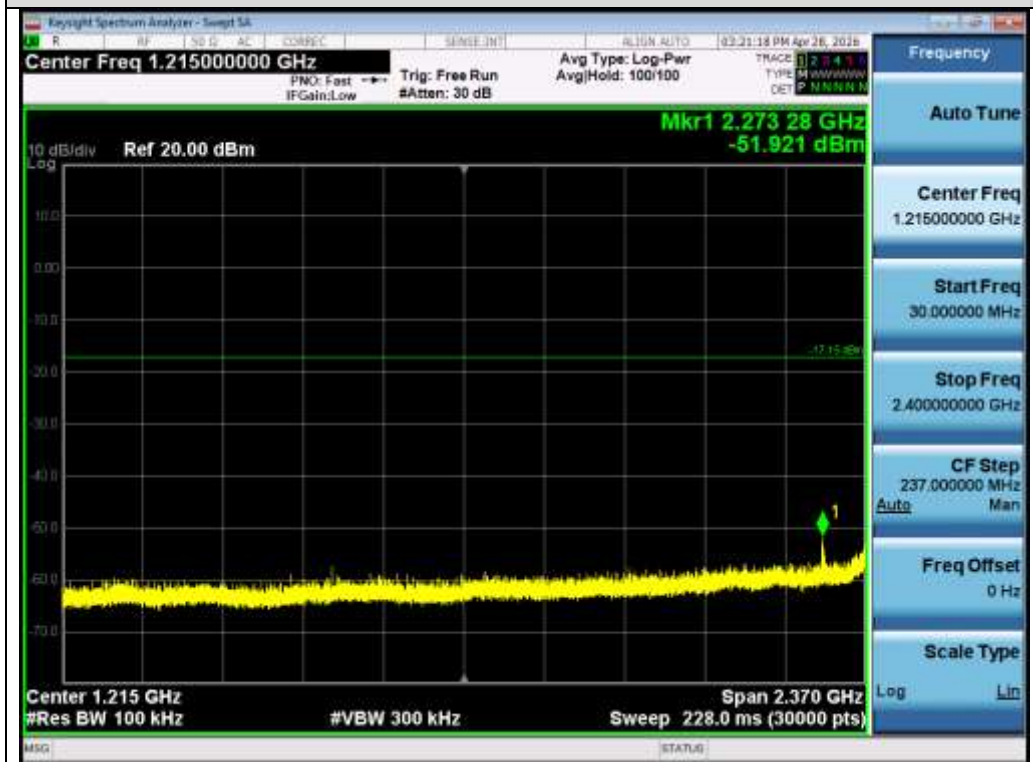


Test_Graph_802.11g_Chain A_2412_6Mbps_Higher Band Emissions

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Test_Graph_802.11g_Chain A_2437_6Mbps_Reference Level



Test_Graph_802.11g_Chain A_2437_6Mbps_Lower Band Emissions

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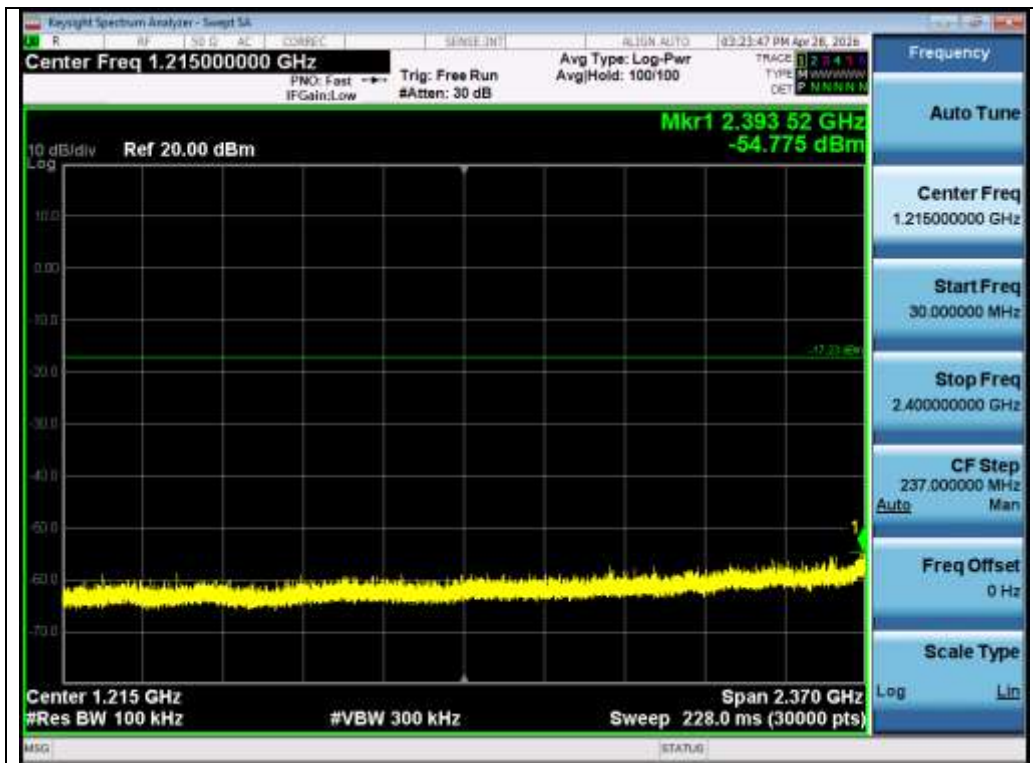


Test_Graph_802.11g_Chain A_2437_6Mbps_Higher Band Emissions



Test_Graph_802.11g_Chain A_2462_6Mbps_Reference Level

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Test_Graph_802.11g_Chain A_2462_6Mbps_Lower Band Emissions

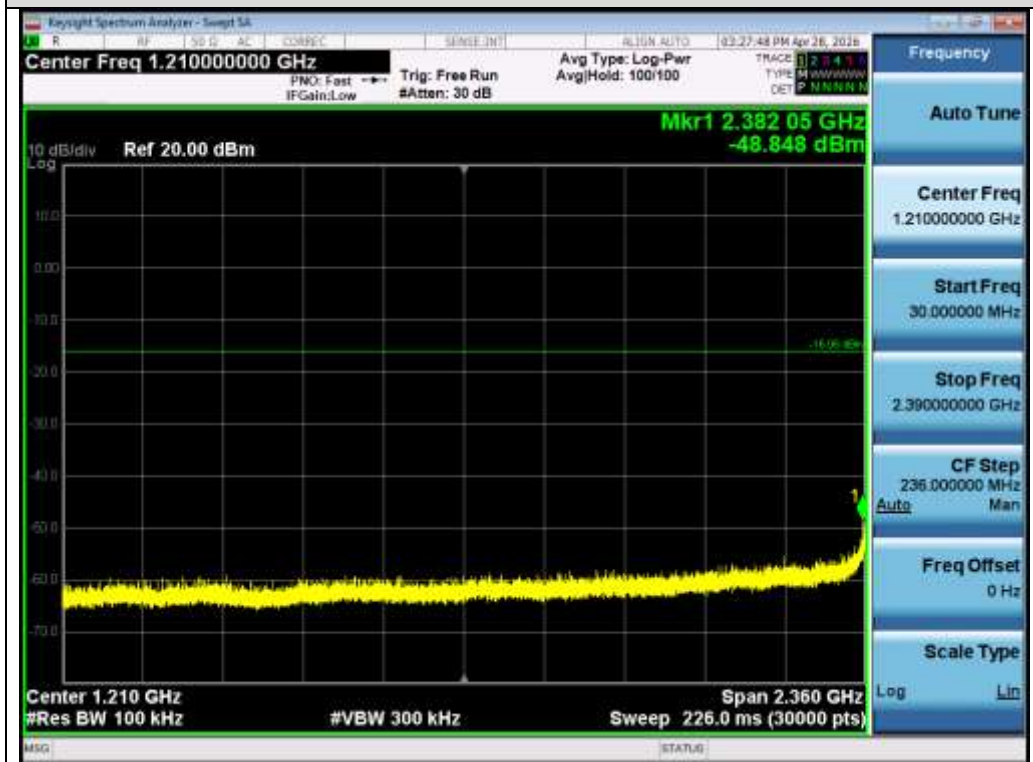


Test_Graph_802.11g_Chain A_2462_6Mbps_Higher Band Emissions

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Test_Graph_802.11n20_Chain A_2412_MCS0_Reference Level



Test_Graph_802.11n20_Chain A_2412_MCS0_Lower Band Emissions

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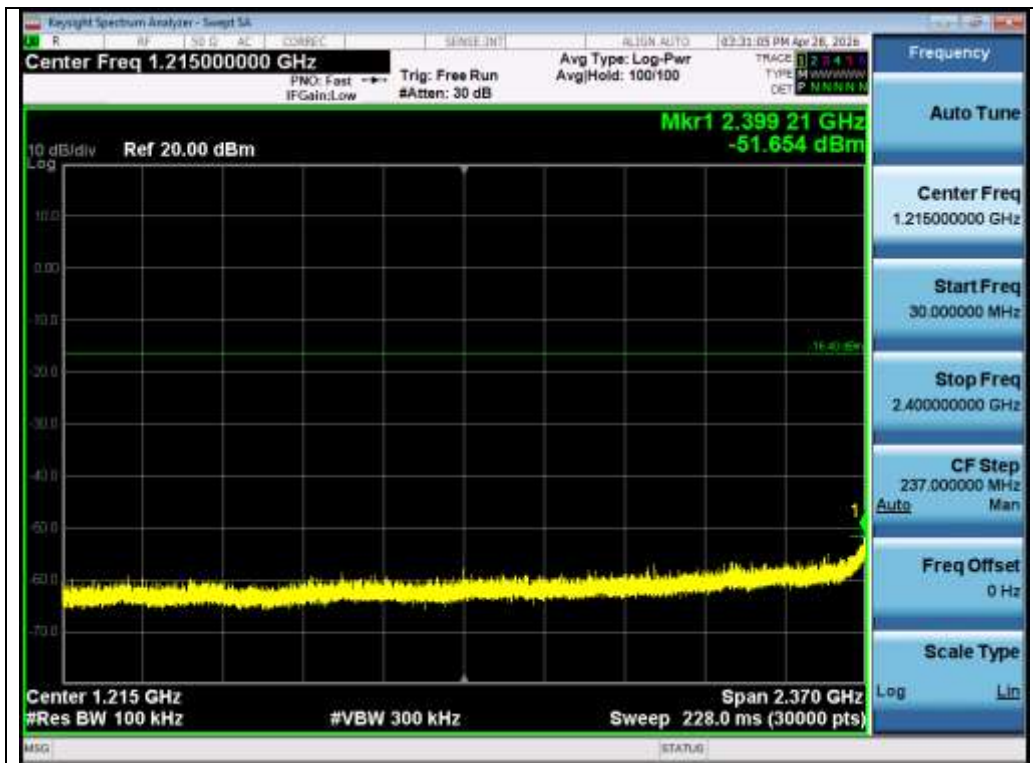


Test_Graph_802.11n20_Chain A_2412_MCS0_Higher Band Emissions



Test_Graph_802.11n20_Chain A_2437_MCS0_Reference Level

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Test_Graph_802.11n20_Chain A_2437_MCS0_Lower Band Emissions

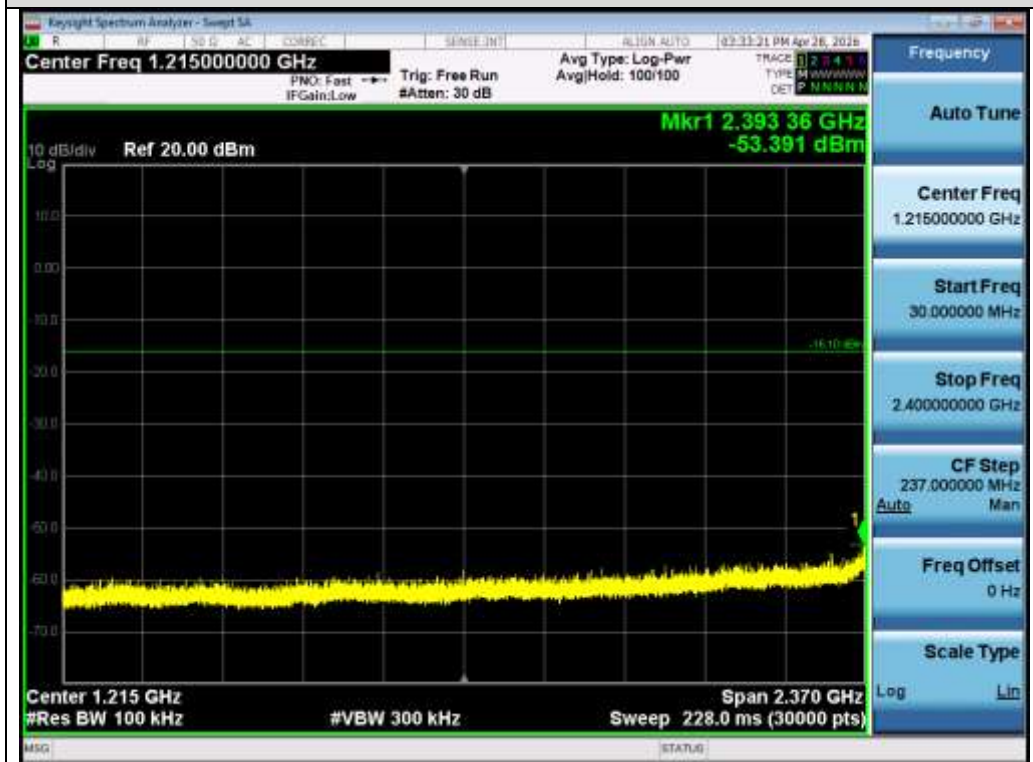


Test_Graph_802.11n20_Chain A_2437_MCS0_Higher Band Emissions

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Test_Graph_802.11n20_Chain A_2462_MCS0_Reference Level



Test_Graph_802.11n20_Chain A_2462_MCS0_Lower Band Emissions

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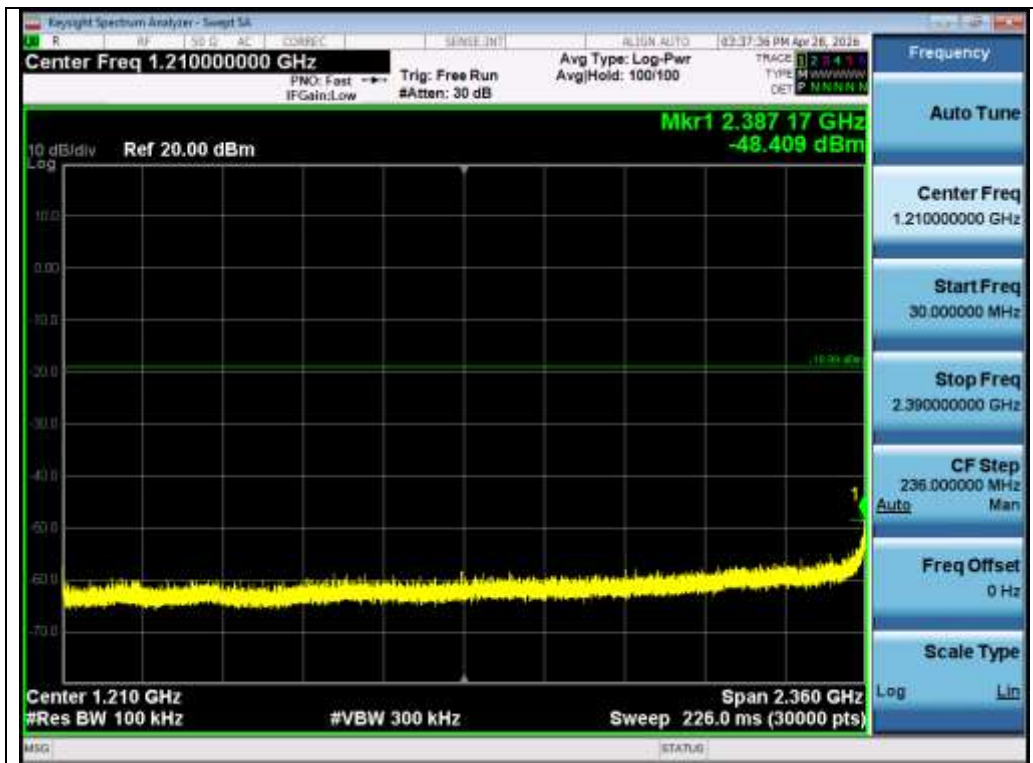


Test_Graph_802.11n20_Chain A_2462_MCS0_Higher Band Emissions



Test_Graph_802.11n40_Chain A_2422_MCS0_Reference Level

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Test_Graph_802.11n40_Chain A_2422_MCS0_Lower Band Emissions



Test_Graph_802.11n40_Chain A_2422_MCS0_Higher Band Emissions

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Test_Graph_802.11n40_Chain A_2437_MCS0_Reference Level



Test_Graph_802.11n40_Chain A_2437_MCS0_Lower Band Emissions

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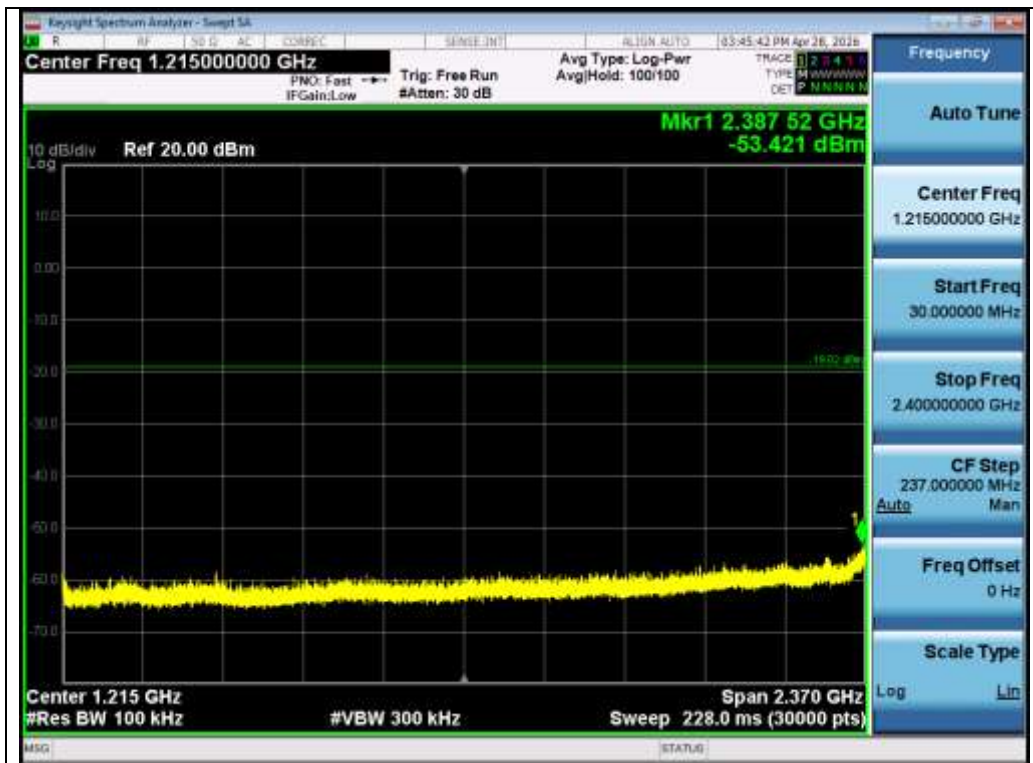


Test_Graph_802.11n40_Chain A_2437_MCS0_Higher Band Emissions



Test_Graph_802.11n40_Chain A_2452_MCS0_Reference Level

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Test_Graph_802.11n40_Chain A_2452_MCS0_Lower Band Emissions



Test_Graph_802.11n40_Chain A_2452_MCS0_Higher Band Emissions

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