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# FCC Test Report

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Report No.: AGC06662231105FR01

**FCC ID** : 2ANTC-C298

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : Wireless IP Camera

**BRAND NAME** : N/A

**MODEL NAME** : C298

**APPLICANT** : Ansjer Electronics Co., Ltd

**DATE OF ISSUE** : Feb. 04, 2024

**STANDARD(S)** : FCC Part 15 Subpart C §15.247

**REPORT VERSION** : V1.0

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**Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Feb. 04, 2024	Valid	Initial Release

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**1. General Information**

Applicant	Ansjer Electronics Co., Ltd
Address	301,1st Building, No.21 Yongtian Road, Xiangzhou, Zhuhai, Guangdong, China
Manufacturer	Ansjer Electronics Co., Ltd
Address	No.5 WanLi Road, SanXiang, ZhongShan 528463, Guangdong, China
Factory	Ansjer Electronics Co., Ltd
Address	No.5 WanLi Road, SanXiang, ZhongShan 528463, Guangdong, China
Product Designation	Wireless IP Camera
Brand Name	N/A
Test Model	C298
Series Model(s)	N/A
Difference Description	N/A
Date of receipt of test item	Nov. 27, 2023
Date of Test	Nov. 27, 2023 – Feb. 04, 2024
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-2.4G WLAN-V1

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

Prepared By

Jack Gui  
(Project Engineer)

Feb. 04, 2024

Reviewed By

Calvin Liu  
(Reviewer)

Feb. 04, 2024

Approved By

Max Zhang  
Authorized Officer

Feb. 04, 2024

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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
SISO Output Power (Average)	IEEE 802.11b:10.75dBm; IEEE 802.11g:10.01dBm; IEEE 802.11n(HT20):9.91dBm; IEEE 802.11n(HT40):10.02dBm
SISO Output Power (Peak)	IEEE 802.11b:11.71dBm; IEEE 802.11g:15.98dBm; IEEE 802.11n(HT20):15.86dBm; IEEE 802.11n(HT40):16.15dBm
MIMO Output Power (Average)	IEEE 802.11n(HT20):12.11dBm; IEEE 802.11n(HT40):12.39dBm
MIMO Output Power (Peak)	IEEE 802.11n(HT20):19.68dBm; IEEE 802.11n(HT40):20.17dBm
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	K06+Q03P+SV823 80A1
Software Version	V4.2.6.V82301650AA
Antenna Designation	Monopole antenna
Antenna Gain	Please refer to report section 2.9 description
Number of transmit chain	2(802.11b/g/n all used two antennas,802.11b/g support SISO and 802.11n support MIMO)
Power Supply	DC 12V by adapter

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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 <sub>BPSC</sub>	N <sub>CBPS</sub>		N <sub>DBPS</sub>		Data Rate(Mbps)	
					800nsGI		20MHz		40MHz	
					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: 2ANTC-C298, 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 C63.10-2013	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
<b>EUT Antenna:</b> 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 Monopole Antenna List (2.4GHz 2*2 MIMO)						
Monopole Antenna	2400~2483.5	2	20, 40	3.77	3.77	6.78

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 =  $G_{ANT} + \text{Array Gain}$ , where Array Gain is as follows.

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

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

- For power measurements on IEEE 802.1 devices:

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

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

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

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## 2.11 Description of Test Software

### For IEEE 802.11 mode:

The test utility software used during testing was "SecureCRT", and the version was "Version 6.6.1 (build 289)".

## Software Setting Diagram

```
Serial-COM3 - SecureCRT
文件(F) 窗口(W) 帮助(H) 选项(O) 书签(T) 帮助(H)
Serial-COM3
11393.85322 HPMC025
11393.760857 HPMC026
11393.762987 HPMC027
11393.763328 HPMC028
11393.767350 HPMC029
11393.772845 HPMC030
11393.774960 HPMC031
11393.775000 HPMC030
11393.779919 VHTIMC51
11393.780552 VHTIMC52
11393.784583 VHTIMC53
11393.786838 VHTIMC54
11393.791369 VHTIMC55
11393.791369 VHTIMC56
11393.794047 VHTIMC57
11393.799753 VHTIMC58
11393.799753 VHTIMC59
11393.801897 VHT2MC50
11393.802151 VHT2MC51
11393.807388 VHT2MC52
11393.811897 VHT2MC53
11393.811897 VHT2MC54
11393.814470 VHT2MC55
11393.814470 VHT2MC56
11393.819147 VHT2MC57
11393.822842 VHT2MC58
11393.825133 VHT2MC59
11393.828845 VHT2MC50
11393.829921 VHT3MC51
11393.830000 VHT3MC52
11393.835258 VHT3MC53
11393.877973 VHT3MC54
11393.880000 VHT3MC55
11393.882582 VHT3MC56
11393.884660 VHT3MC57
11393.884660 VHT3MC58
11393.884660 VHT3MC59
11393.853636 VHT4MC50
11393.853636 VHT4MC51
11393.858138 VHT4MC52
11393.860031 VHT4MC53
11393.860031 VHT4MC54
11393.864979 VHT4MC55
11393.864979 VHT4MC56
11393.869579 VHT4MC57
11393.873662 VHT4MC58
wlan0 mp_rate_set data_rate 1024 Index 0
wlan0 mp_txpower_set power_level path_A:22 path_B:0 path_C:0 path_D:0
# /usr/bin/wlan_mp_ctx background_stone
start continuous DA:fffffffffffffff len=1500
# [11393.87392] VHT4MC59
Default -> AIC
|
```

Test Mode	Channel	Power Index	
		Chain 1	Chain 2
802.11b	L/M/H	24	24
802.11g	L/M/H	24	24
802.11n-HT20	L/M/H	24	24
802.11n-HT40	L/M/H	24	24

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### 3. Test Environment

#### 3.1 Address of The Test Laboratory

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

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

#### 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 expended 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	$U_c = \pm 2 \%$

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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)
<input checked="" type="checkbox"/>	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2023-06-01	2024-05-31
<input checked="" type="checkbox"/>	AGC-ER-E062	Power Sensor	Agilent	U2021XA	MY54110007	2023-03-03	2024-03-02
<input checked="" type="checkbox"/>	AGC-ER-E063	Power Sensor	Agilent	U2021XA	MY54110009	2023-03-03	2024-03-02
<input checked="" type="checkbox"/>	AGC-EM-A152	6dB Attenuator	Eatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08
<input checked="" type="checkbox"/>	AGC-ER-E083	Signal Generator	Agilent	E4421B	US39340815	2023-06-01	2024-05-31
<input checked="" type="checkbox"/>	N/A	RF Connection Cable	N/A	1#	N/A	Each time	N/A
<input checked="" type="checkbox"/>	N/A	RF Connection Cable	N/A	2#	N/A	Each time	N/A

● 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)
<input type="checkbox"/>	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2023-02-18	2024-02-17
<input checked="" type="checkbox"/>	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2023-06-03	2024-06-02
<input checked="" type="checkbox"/>	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2023-06-01	2024-05-31
<input checked="" type="checkbox"/>	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2022-03-12	2024-03-11
<input checked="" type="checkbox"/>	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2023-05-11	2025-05-10
<input checked="" type="checkbox"/>	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2023-03-23	2024-03-22
<input checked="" type="checkbox"/>	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2023-09-24	2025-09-23
<input checked="" type="checkbox"/>	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2022-08-04	2024-08-03
<input checked="" type="checkbox"/>	AGC-EM-A119	2.4G Filter	SongYi	N/A	N/A	2023-06-01	2024-05-31
<input checked="" type="checkbox"/>	AGC-EM-A138	6dB Attenuator	Eatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08
<input type="checkbox"/>	AGC-EM-A139	6dB Attenuator	Eatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08

● 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)
<input checked="" type="checkbox"/>	AGC-EM-E045	EMI Test Receiver	R&S	ESPI	101206	2023-06-03	2024-06-02
<input checked="" type="checkbox"/>	AGC-EM-A130	6dB Attenuator	Eatsheep	LM-XX-6-5W	DC-6GZ	2023-06-09	2024-06-08
<input checked="" type="checkbox"/>	AGC-EM-E023	AMN	R&S	100086	ESH2-Z5	2023-06-03	2024-06-02

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**● Test Software**

Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
<input checked="" type="checkbox"/>	AGC-EM-S003	RE Test System	FARA	EZ-EMC	V.RA-03A
<input checked="" type="checkbox"/>	AGC-EM-S011	RSE Test System	Tonscend	TS <sup>+</sup> Ver2.1(JS36-RSE)	4.0.0.0
<input checked="" type="checkbox"/>	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71
<input checked="" type="checkbox"/>	AGC-ER-S009	BT/WIFI Test System	Tonscend	JS1120-3	2.6.77.0518

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## 4. System Test Configuration

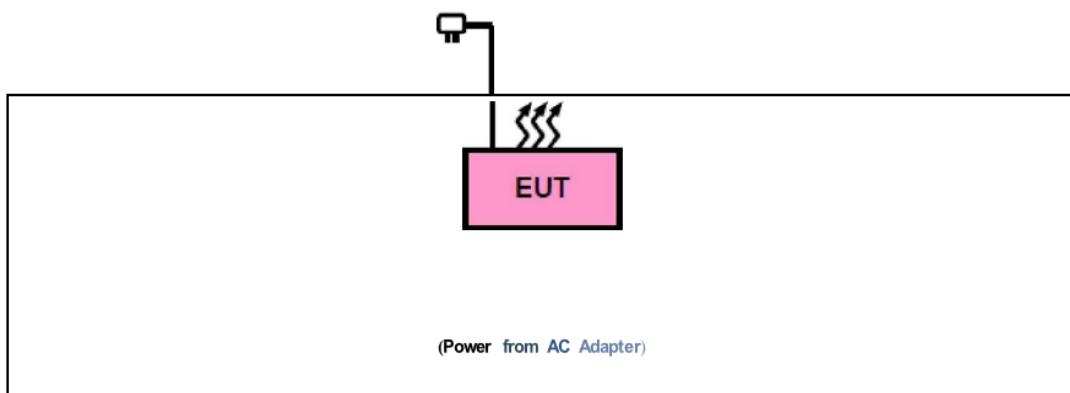
### 4.1 EUT Configuration

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



### 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	Model No.	Manufacturer	Specification Information	Cable
1	--	--	--	--	--

Test Accessories Come From The Manufacturer

No.	Equipment	Model No.	Manufacturer	Specification Information	Cable
1	Adapter	VZ-0122000U	--	Input: 100-240v, 50/60Hz, 1.2A Output: 12V, 2A	--

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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 (DSSS/OFDM)
Radiated & Conducted Test Cases	Mode 1: 802.11b_TX CH01_2412 MHz_1 Mbps(power by AC adapter) Mode 2: 802.11b_TX CH06_2437 MHz_1 Mbps(power by AC adapter) Mode 3: 802.11b_TX CH11_2462 MHz_1 Mbps(power by AC adapter) Mode 4: 802.11g_TX CH01_2412 MHz_6 Mbps(power by AC adapter) Mode 5: 802.11g_TX CH06_2437 MHz_6 Mbps(power by AC adapter) Mode 6: 802.11g_TX CH11_2462 MHz_6 Mbps (C power by AC adapter) Mode 7: 802.11n-HT20_TX CH01_2412 MHz_MCS0 Mbps(power by AC adapter) Mode 8: 802.11n-HT20_TX CH06_2437 MHz_MCS0 Mbps(power by AC adapter) Mode 9: 802.11n-HT20_TX CH11_2462 MHz_MCS0 Mbps(power by AC adapter) Mode 10: 802.11n-HT40_TX CH03_2422 MHz_MCS0 Mbps(power by AC adapter) Mode 11: 802.11n-HT40_TX CH06_2437 MHz_MCS0 Mbps(power by AC adapter) Mode 12: 802.11n-HT40_TX CH09_2452 MHz_MCS0 Mbps(power by AC adapter)
AC Conducted Emission	Mode 1: 2.4G WLAN Link + USB Cable (power by AC adapter)

**Note:**

1. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
2. For Conducted Test method, a temporary antenna connector is provided by the manufacturer.
3. All modes and antennas in the radiation spurious test are pre-scanned. When there is no MIMO technology mode, antenna 1 is evaluated. When there is MIMO technology mode, antenna 1 + antenna 2 are evaluated as the worst data.

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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 = Peak. 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:

Operating mode	Data rates (Mbps)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/T Minimum VBW (kHz)	Average Factor (dB)
IEEE 802.11b	1	96.68	0.01	0.08	-0.03
IEEE 802.11g	6	97.45	0.11	0.48	-0.22
IEEE 802.11n-HT20	MCS0	93.06	0.31	0.52	-0.62
IEEE 802.11n-HT40	MCS0	94.68	0.24	1.06	-0.47

Remark:

1. Duty Cycle factor =  $10 * \log (1 / \text{Duty cycle})$
2. Average factor =  $20 \log_{10} \text{Duty Cycle}$
3. The duty cycle of each frequency band mode reflects the determination requirements of the low channel measurement value.

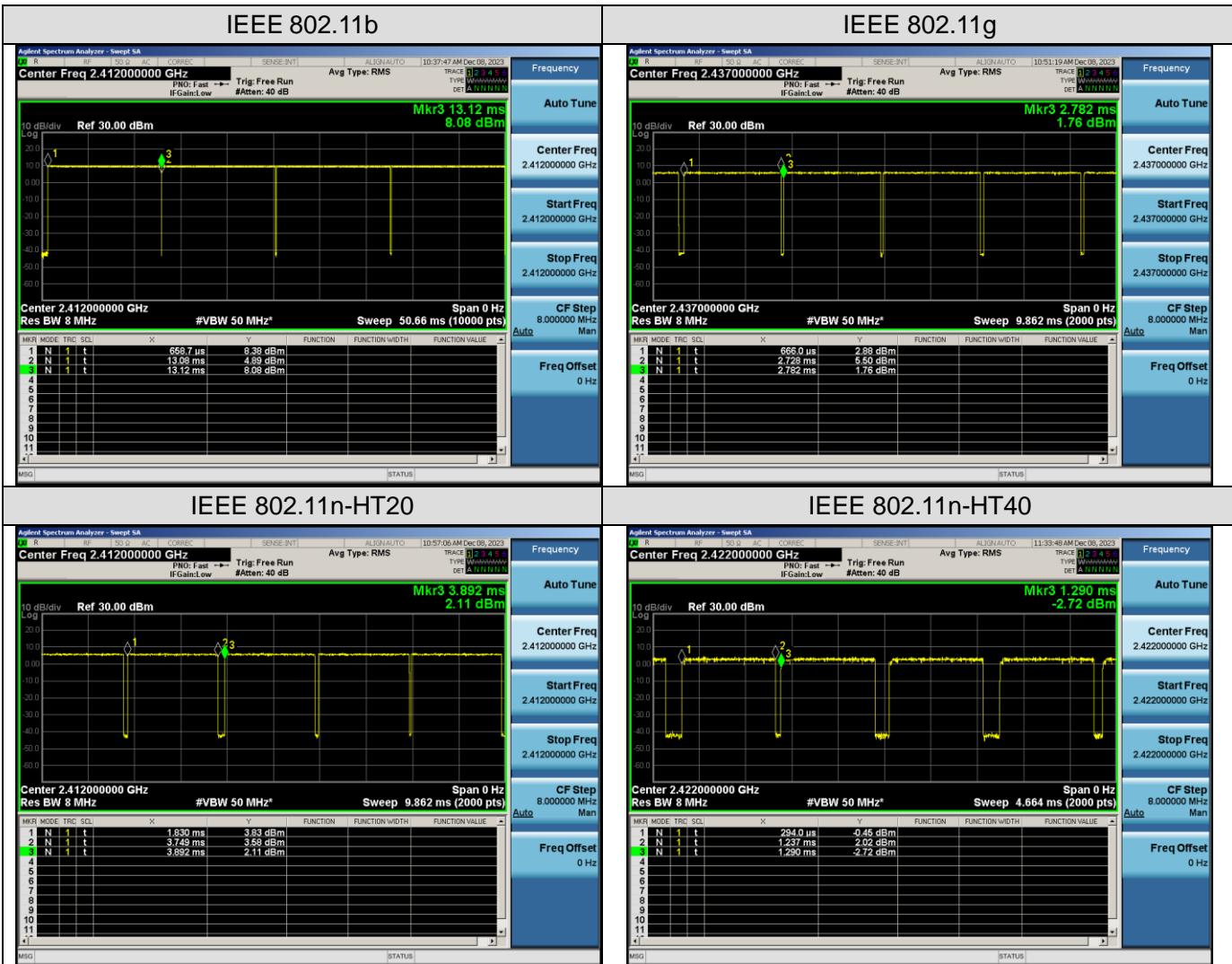
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The test plots as follows:



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## 7. RF Output Power Measurement

### 7.1 Provisions Applicable

For DTSs 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

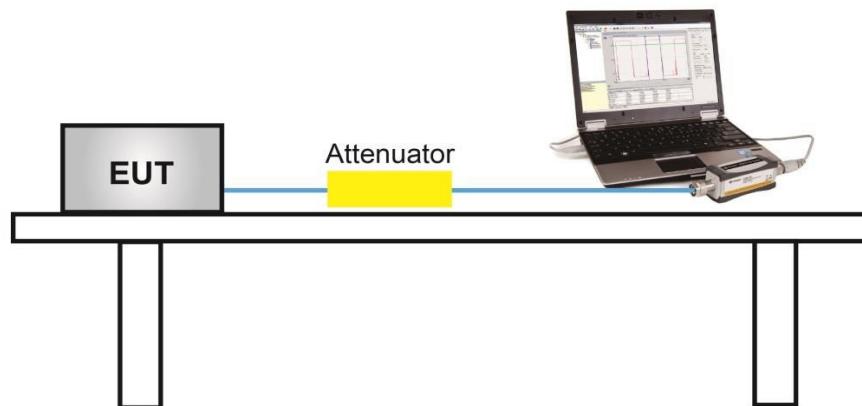
Method PM is Measurement using an RF Peak power meter. The procedure for this method is as follows:

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-ANT 1					
Test Mode	Test Frequency (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
802.11b	2412	10.65	13.57	≤30	Pass
	2437	10.60	13.43	≤30	Pass
	2462	10.75	13.22	≤30	Pass
802.11g	2412	10.01	17.49	≤30	Pass
	2437	9.44	17.22	≤30	Pass
	2462	9.11	16.87	≤30	Pass
802.11n20	2412	9.91	17.35	≤30	Pass
	2437	9.41	17.23	≤30	Pass
	2462	9.38	17.26	≤30	Pass
802.11n40	2422	10.02	17.98	≤30	Pass
	2437	9.61	17.59	≤30	Pass
	2452	9.40	17.44	≤30	Pass

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<b>Test Data of Conducted Output Power-ANT 2</b>					
Test Mode	Test Frequency (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
802.11b	2412	8.77	11.71	≤30	Pass
	2437	8.77	11.68	≤30	Pass
	2462	8.63	11.54	≤30	Pass
802.11g	2412	8.60	15.98	≤30	Pass
	2437	7.95	15.65	≤30	Pass
	2462	8.05	15.49	≤30	Pass
802.11n20	2412	8.10	15.86	≤30	Pass
	2437	8.02	15.54	≤30	Pass
	2462	7.63	15.40	≤30	Pass
802.11n40	2422	8.63	16.15	≤30	Pass
	2437	8.26	16.03	≤30	Pass
	2452	8.19	15.89	≤30	Pass

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<b>Test Data of Conducted Output Power-MIMO</b>					
Test Mode	Test Frequency (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	2412	12.11	19.68	≤30	Pass
	2437	11.78	19.48	≤30	Pass
	2462	11.60	19.44	≤30	Pass
802.11n40	2422	12.39	20.17	≤30	Pass
	2437	12.00	19.89	≤30	Pass
	2452	11.85	19.74	≤30	Pass

Note:

1. The Total Average Conducted Output Power (dBm) =  $10^{\log \{10^{(\text{Ant1 AVG /10})} + 10^{(\text{Ant2 AVG /10})}\}}.$
2. The Total Peak Conducted Output Power (dBm) =  $10^{\log \{10^{(\text{Ant1 PK /10})} + 10^{(\text{Ant2 PK /10})}\}}.$

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## 8. 6dB Bandwidth Measurement

### 8.1 Provisions Applicable

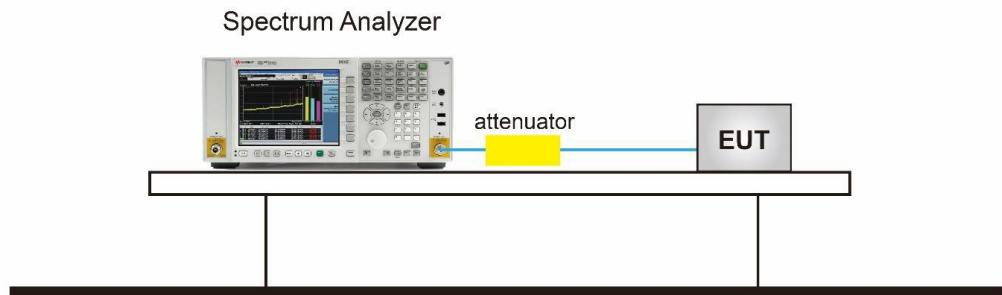
The minimum 6dB bandwidth shall be 500 kHz.

### 8.2 Measurement Procedure

The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (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) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. 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)  $\geq 3 * \text{RBW}$ .
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-ANT 1					
Test Mode	Test Frequency (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	DTS Bandwidth Limits (MHz)	Pass or Fail
802.11b	2412	14.850	10.043	≥0.5	Pass
	2437	14.866	10.028	≥0.5	Pass
	2462	14.855	9.998	≥0.5	Pass
802.11g	2412	16.498	16.339	≥0.5	Pass
	2437	16.528	16.346	≥0.5	Pass
	2462	16.542	16.339	≥0.5	Pass
802.11n20	2412	17.609	17.121	≥0.5	Pass
	2437	17.628	17.538	≥0.5	Pass
	2462	17.614	17.534	≥0.5	Pass
802.11n40	2422	35.827	35.541	≥0.5	Pass
	2437	35.827	35.588	≥0.5	Pass
	2452	35.828	35.914	≥0.5	Pass

Test Data of Occupied Bandwidth and DTS Bandwidth-ANT 2					
Test Mode	Test Frequency (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	DTS Bandwidth Limits (MHz)	Pass or Fail
802.11b	2412	14.883	9.573	≥0.5	Pass
	2437	14.890	10.067	≥0.5	Pass
	2462	14.887	10.010	≥0.5	Pass
802.11g	2412	16.555	16.360	≥0.5	Pass
	2437	16.633	16.351	≥0.5	Pass
	2462	16.602	16.366	≥0.5	Pass
802.11n20	2412	17.617	17.514	≥0.5	Pass
	2437	17.619	17.502	≥0.5	Pass
	2462	17.589	17.538	≥0.5	Pass
802.11n40	2422	35.836	35.961	≥0.5	Pass
	2437	35.843	35.759	≥0.5	Pass
	2452	35.849	36.029	≥0.5	Pass

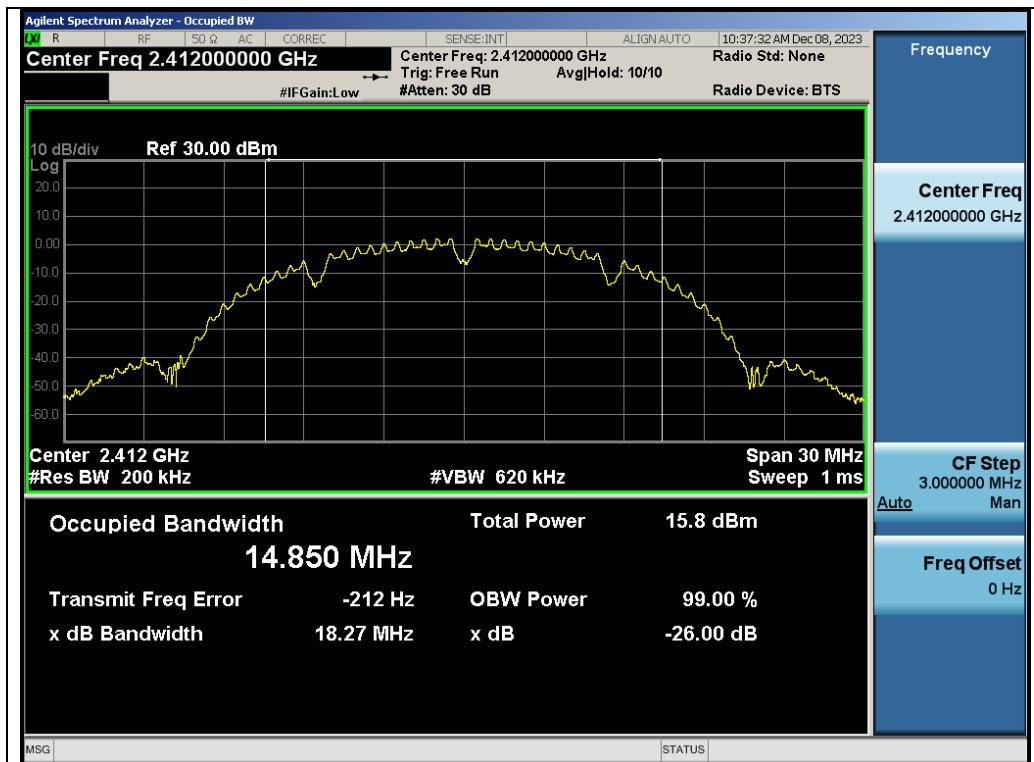
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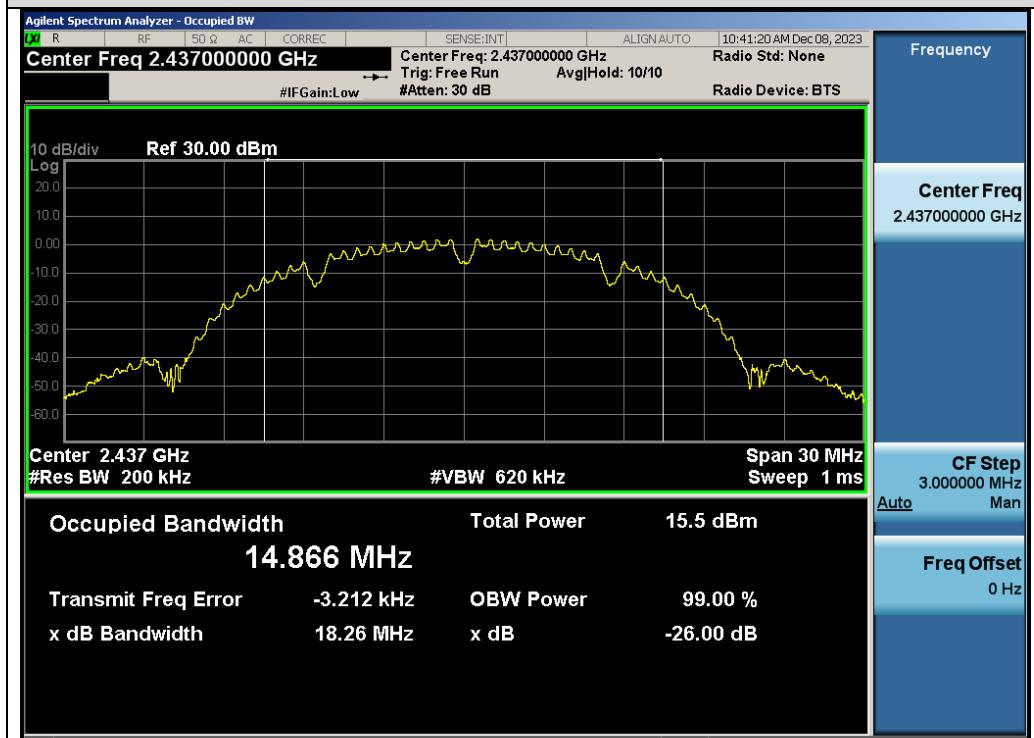
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### Test Graphs of Occupied Bandwidth



Test\_Graph\_802.11b\_ANT1\_2412\_1Mbps\_OBW



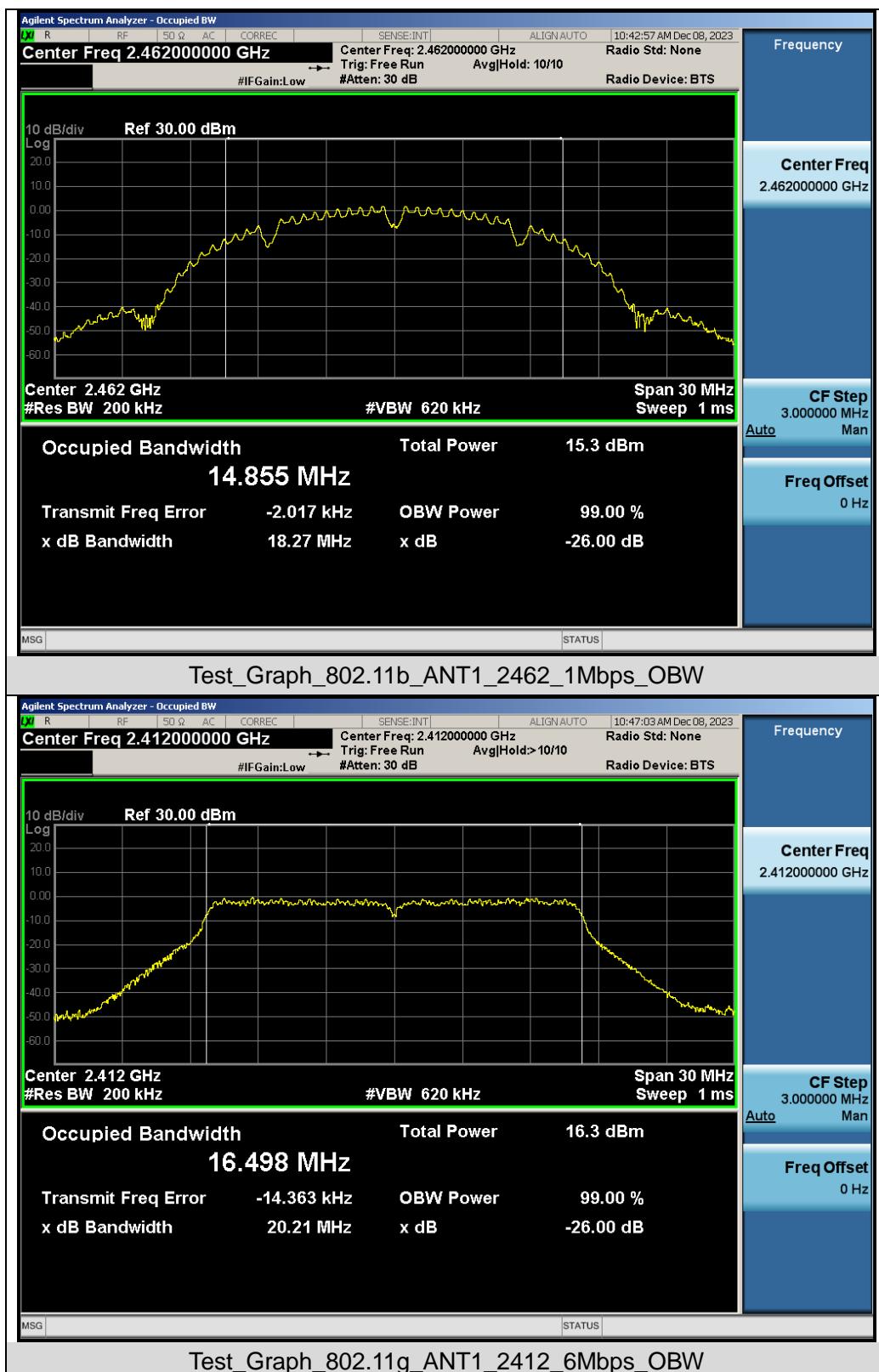
Test\_Graph\_802.11b\_ANT1\_2437\_1Mbps\_OBW

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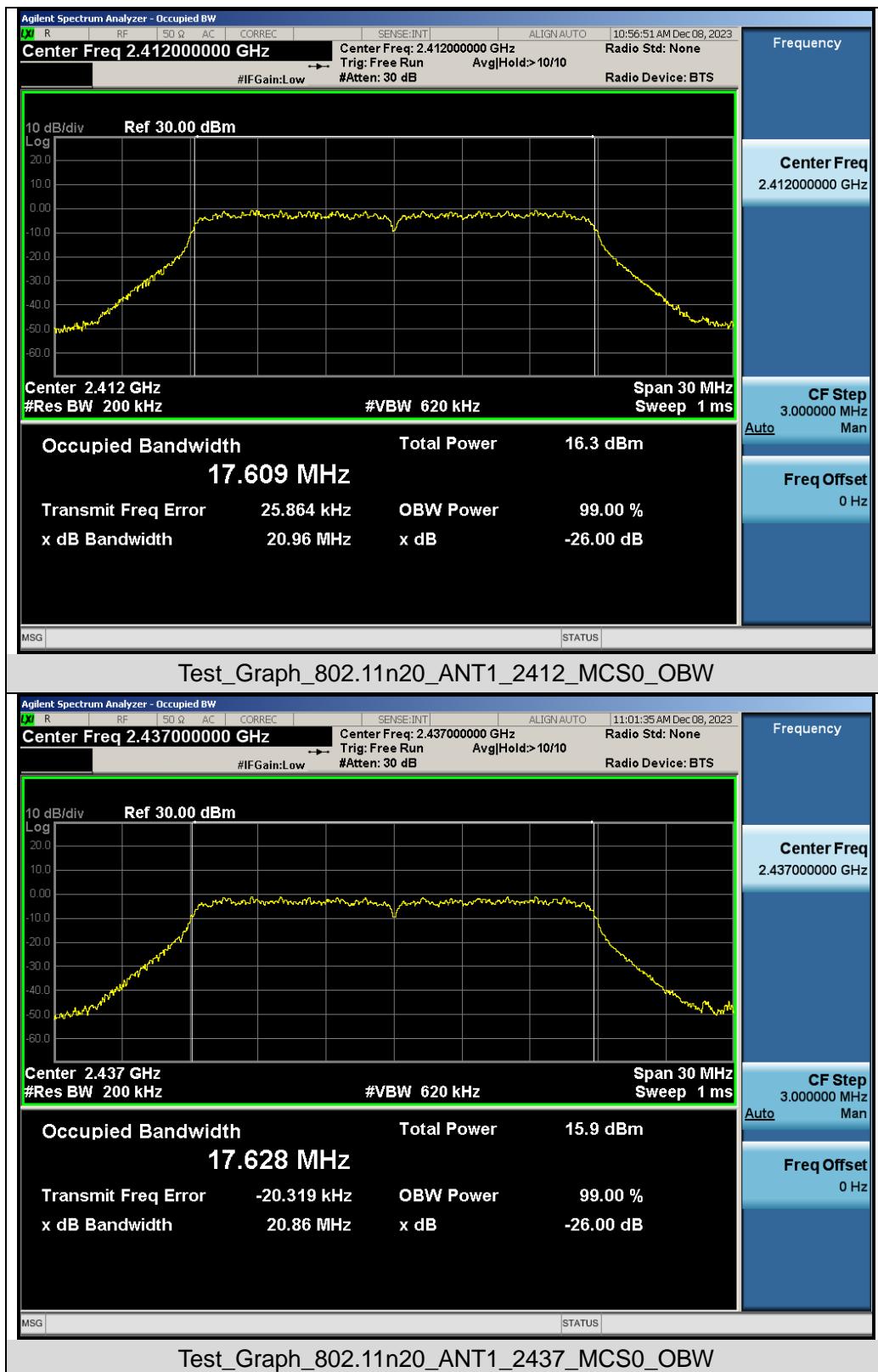


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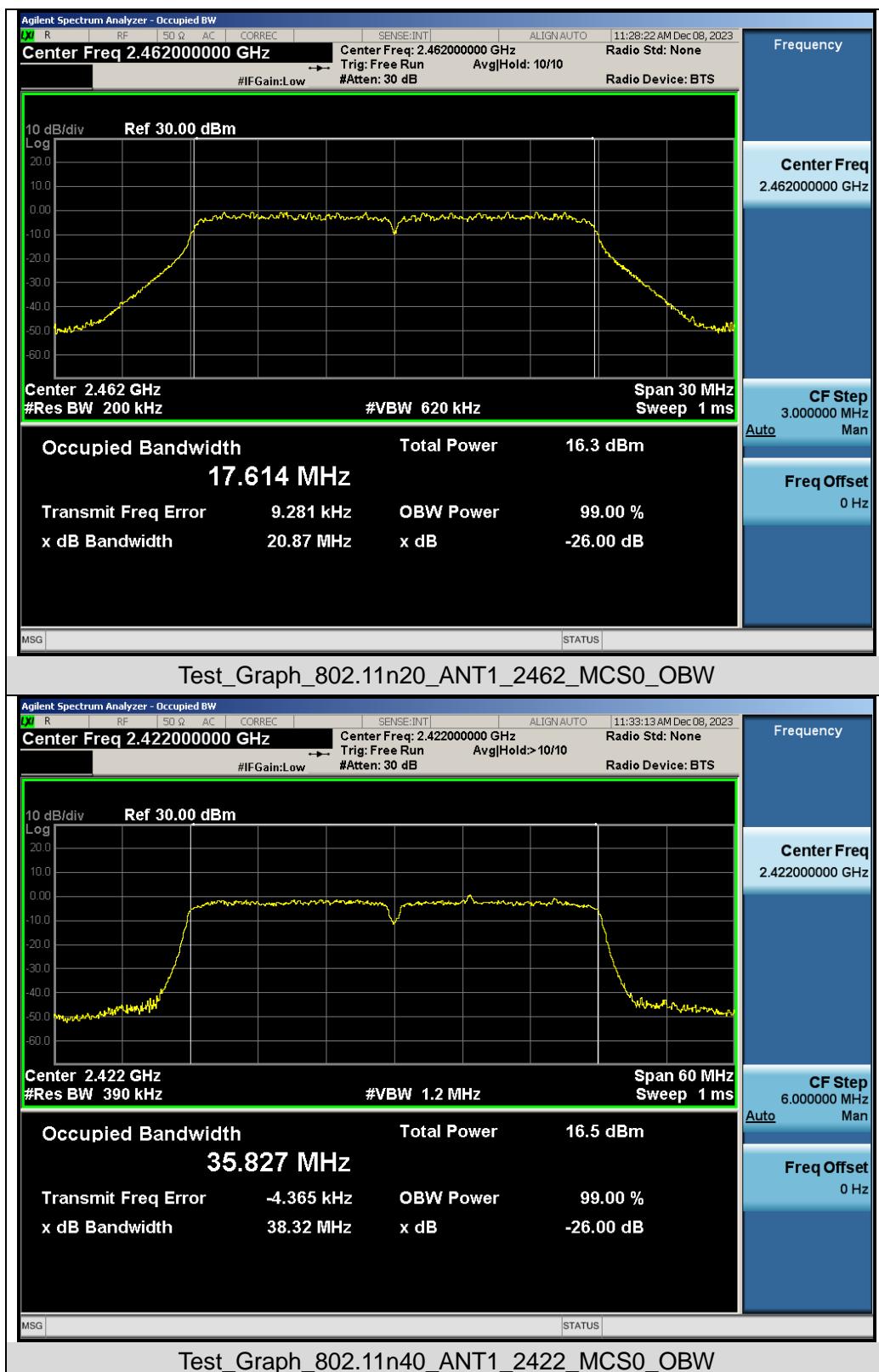


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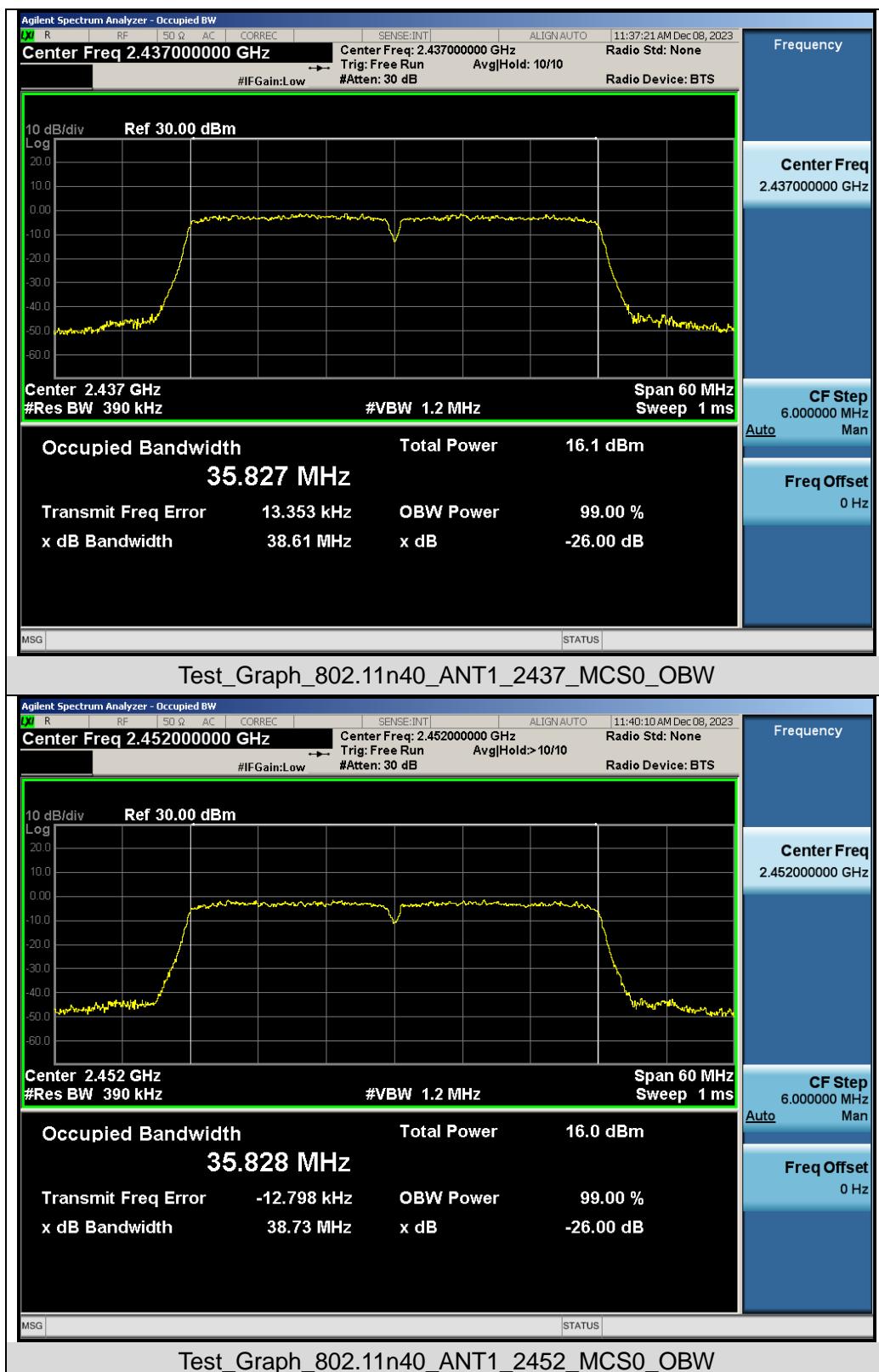


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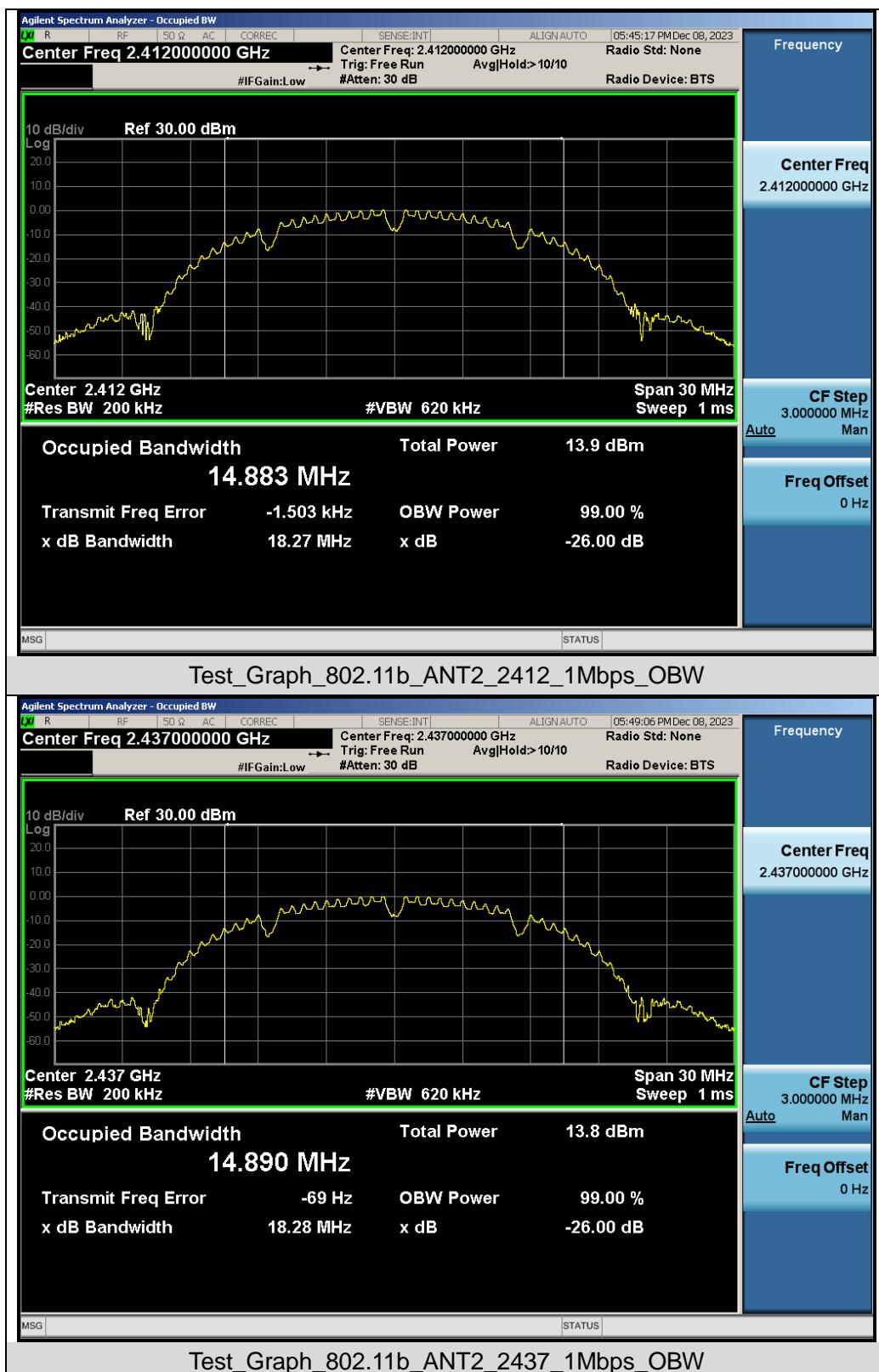


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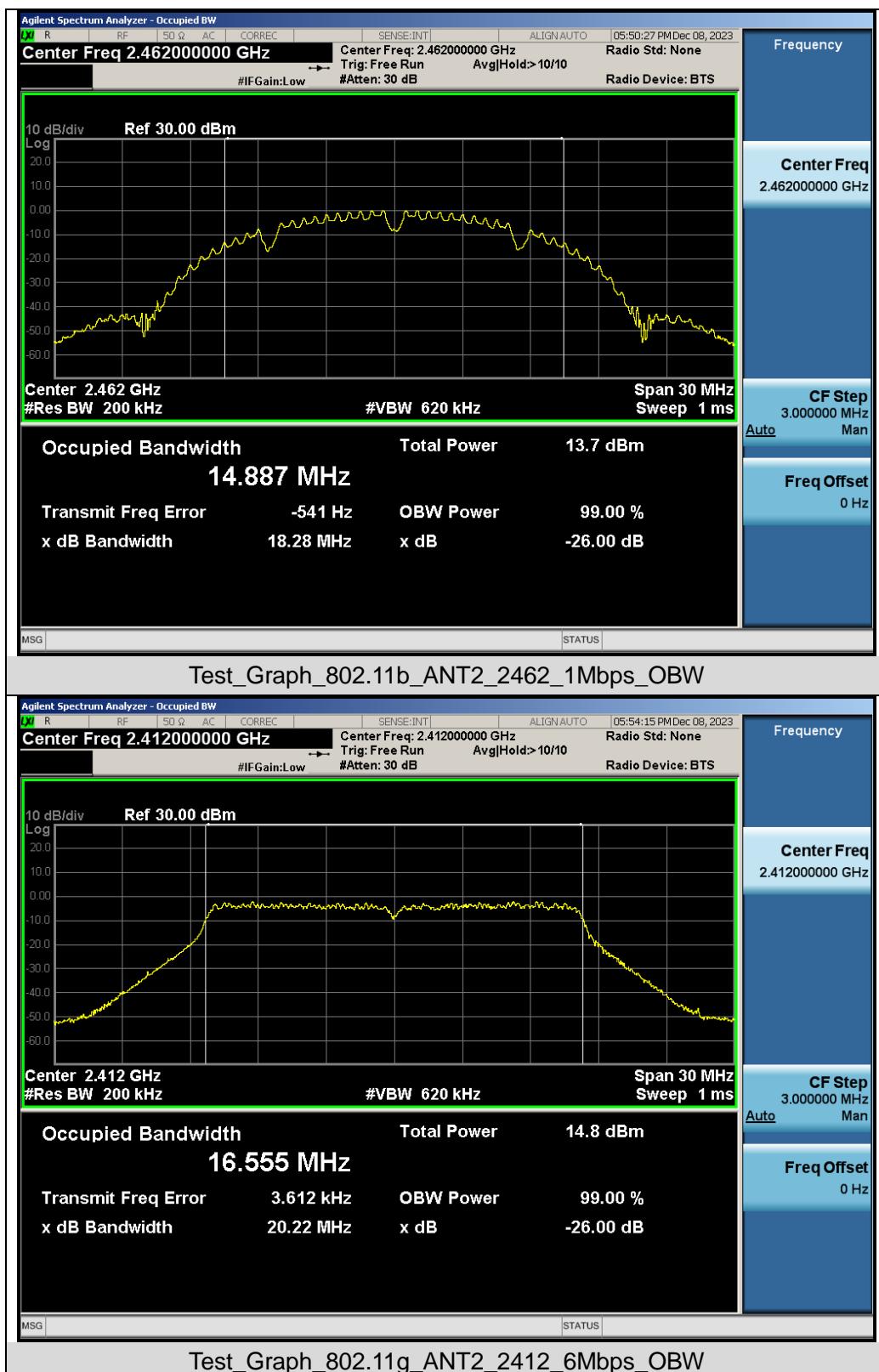


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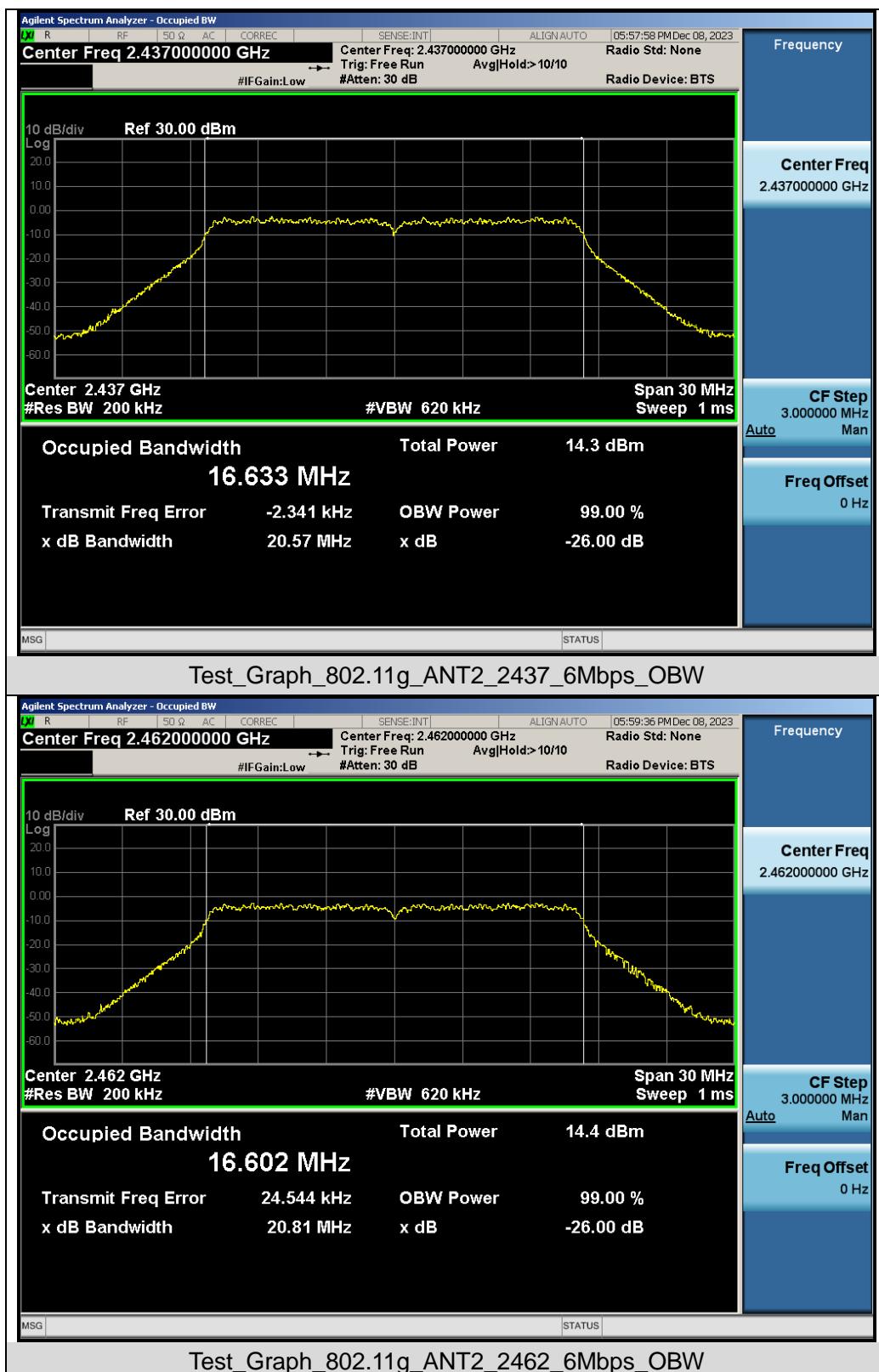


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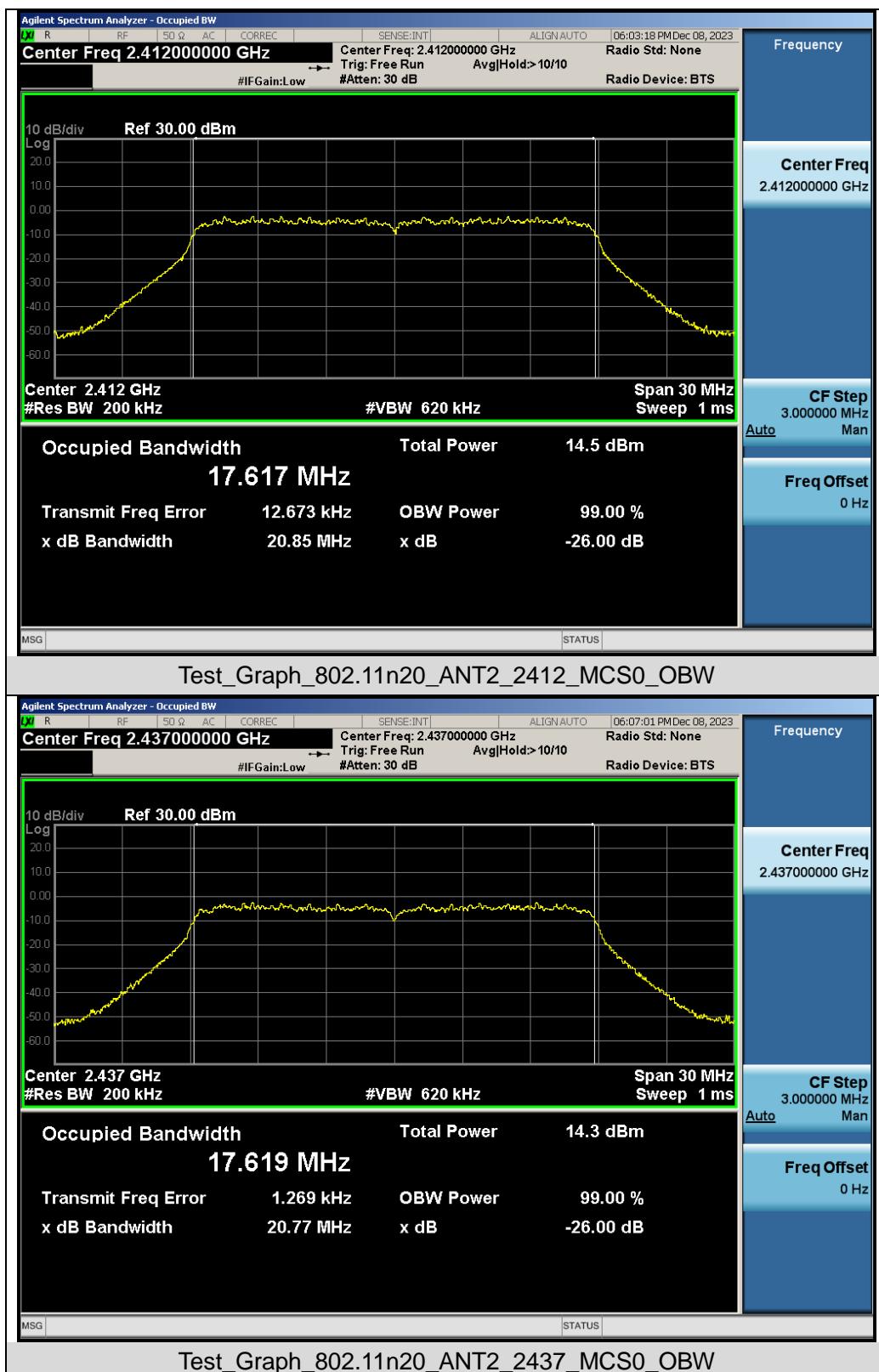


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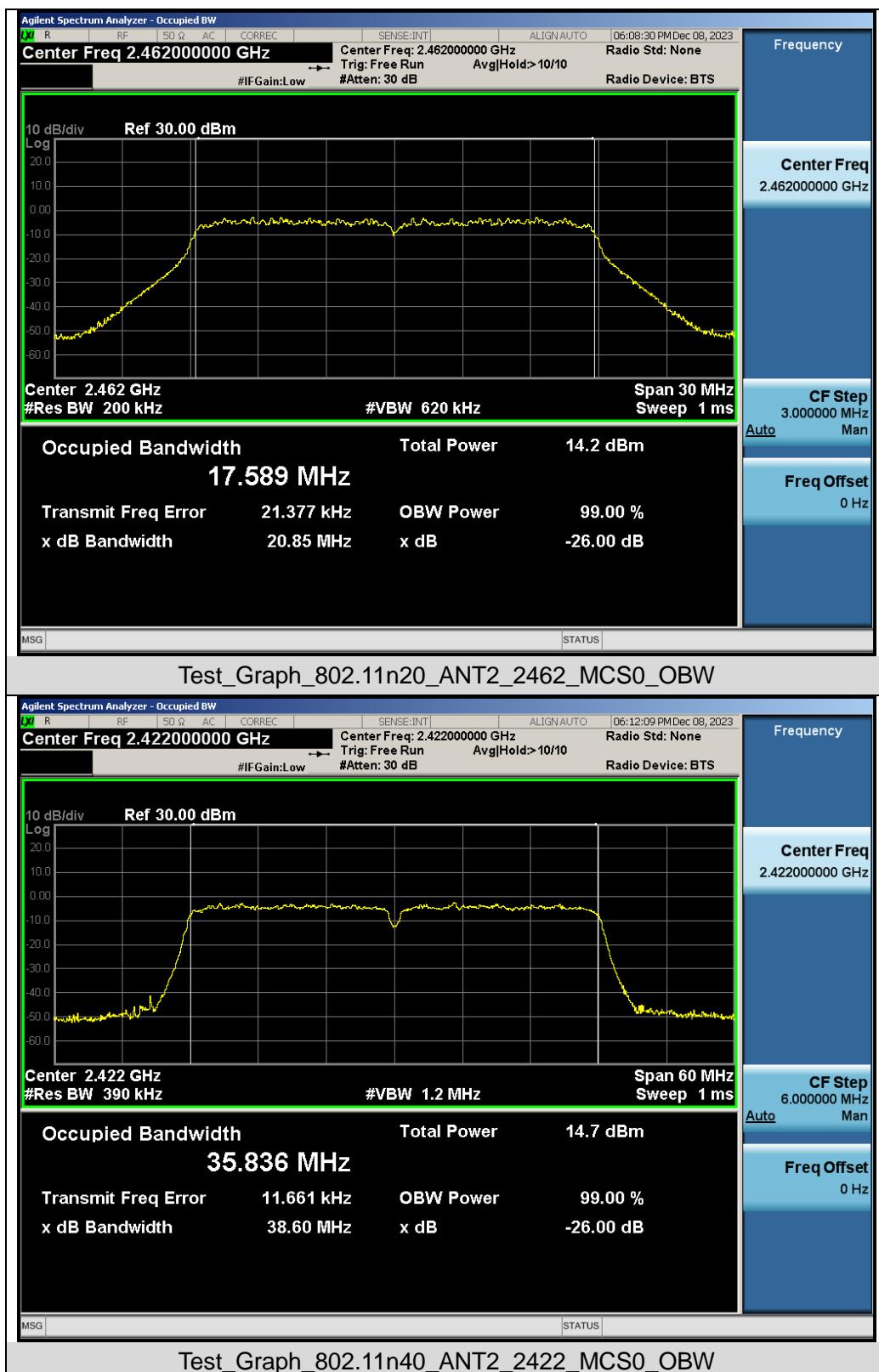


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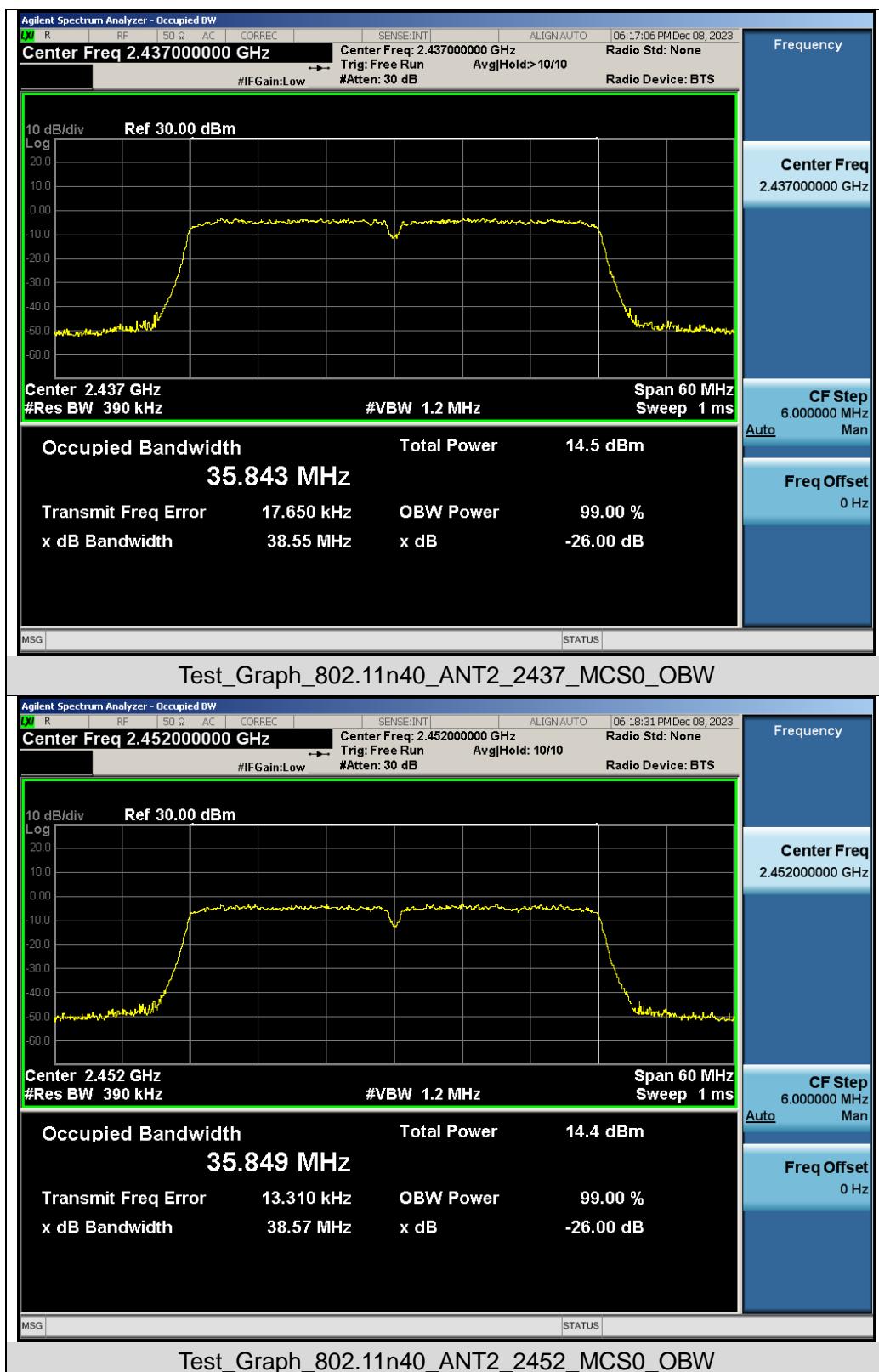


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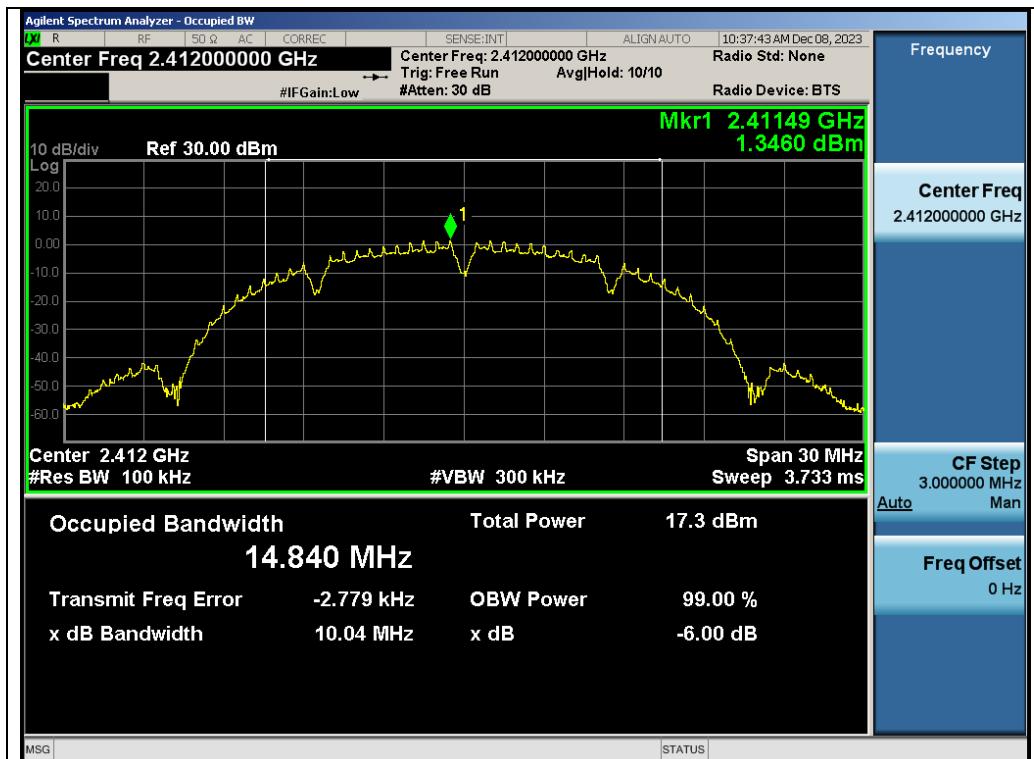
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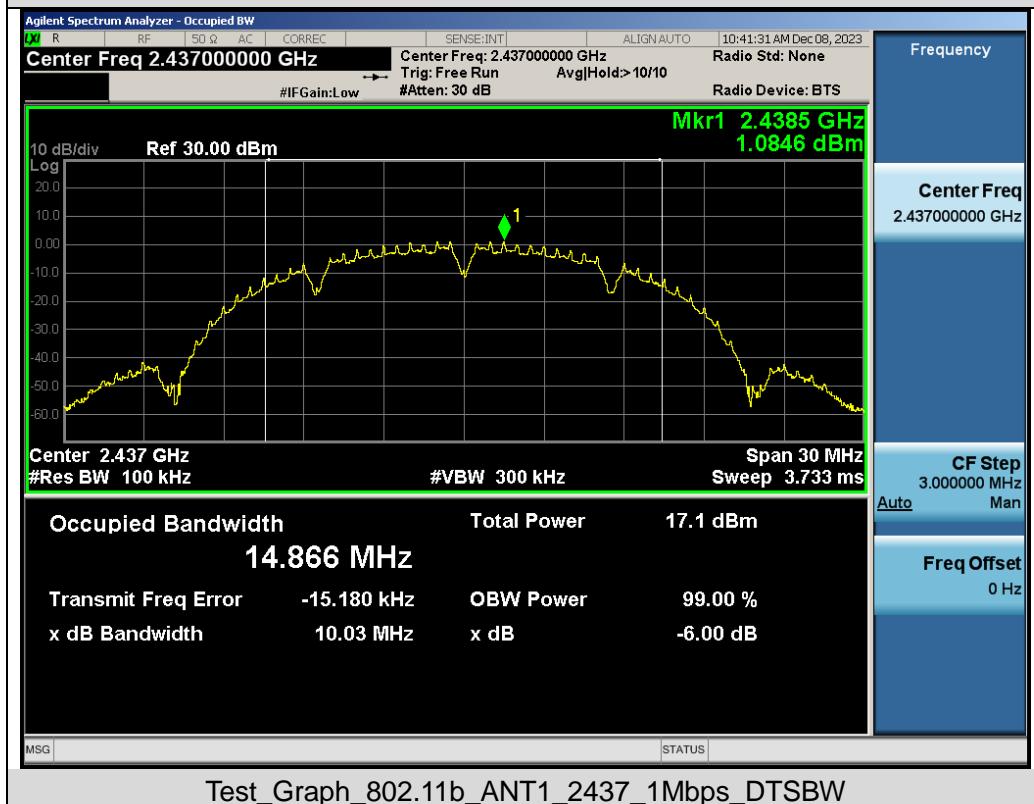
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## Test Graphs of DTS Bandwidth



Test\_Graph\_802.11b\_ANT1\_2412\_1Mbps\_DTSBW



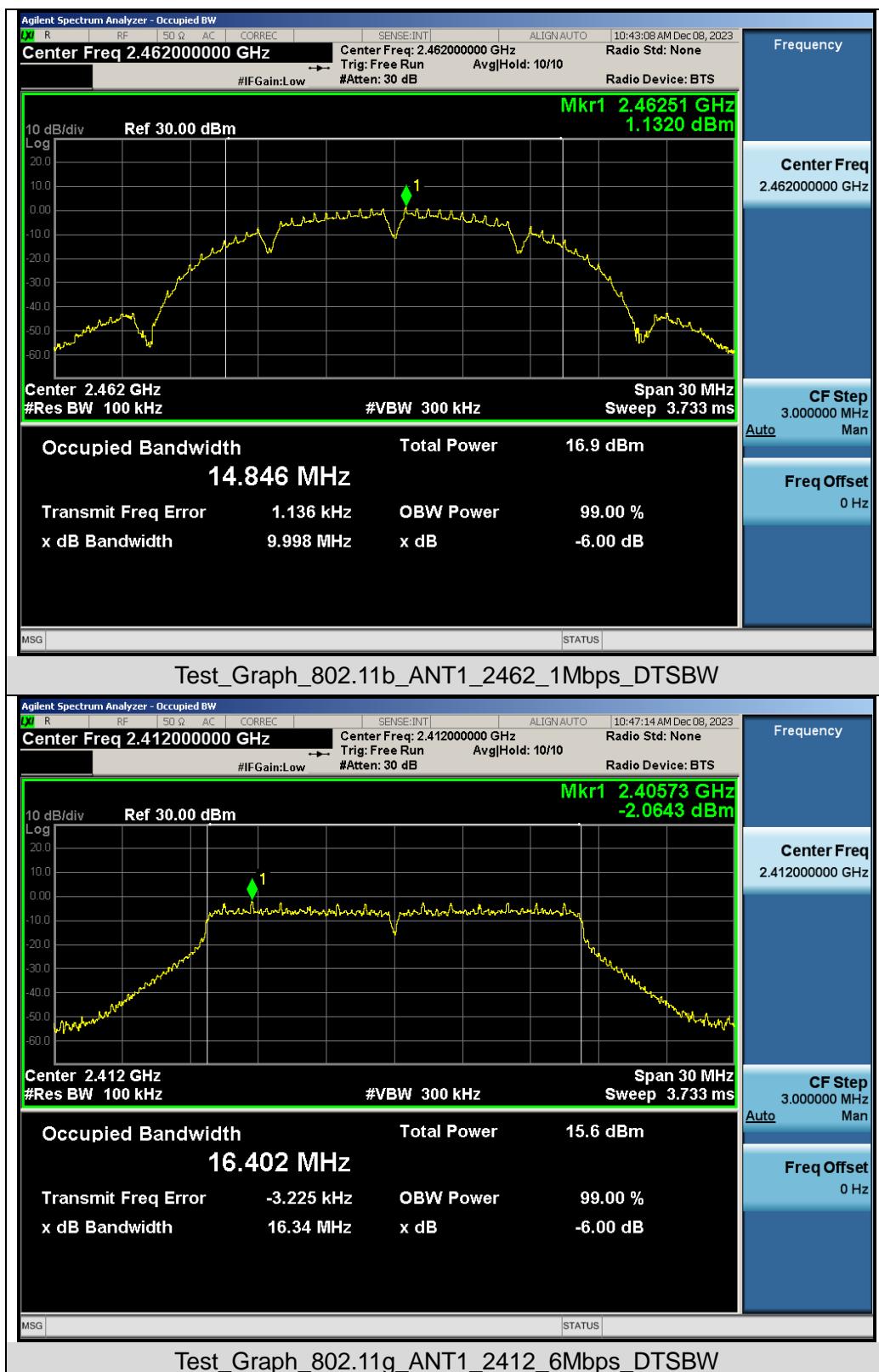
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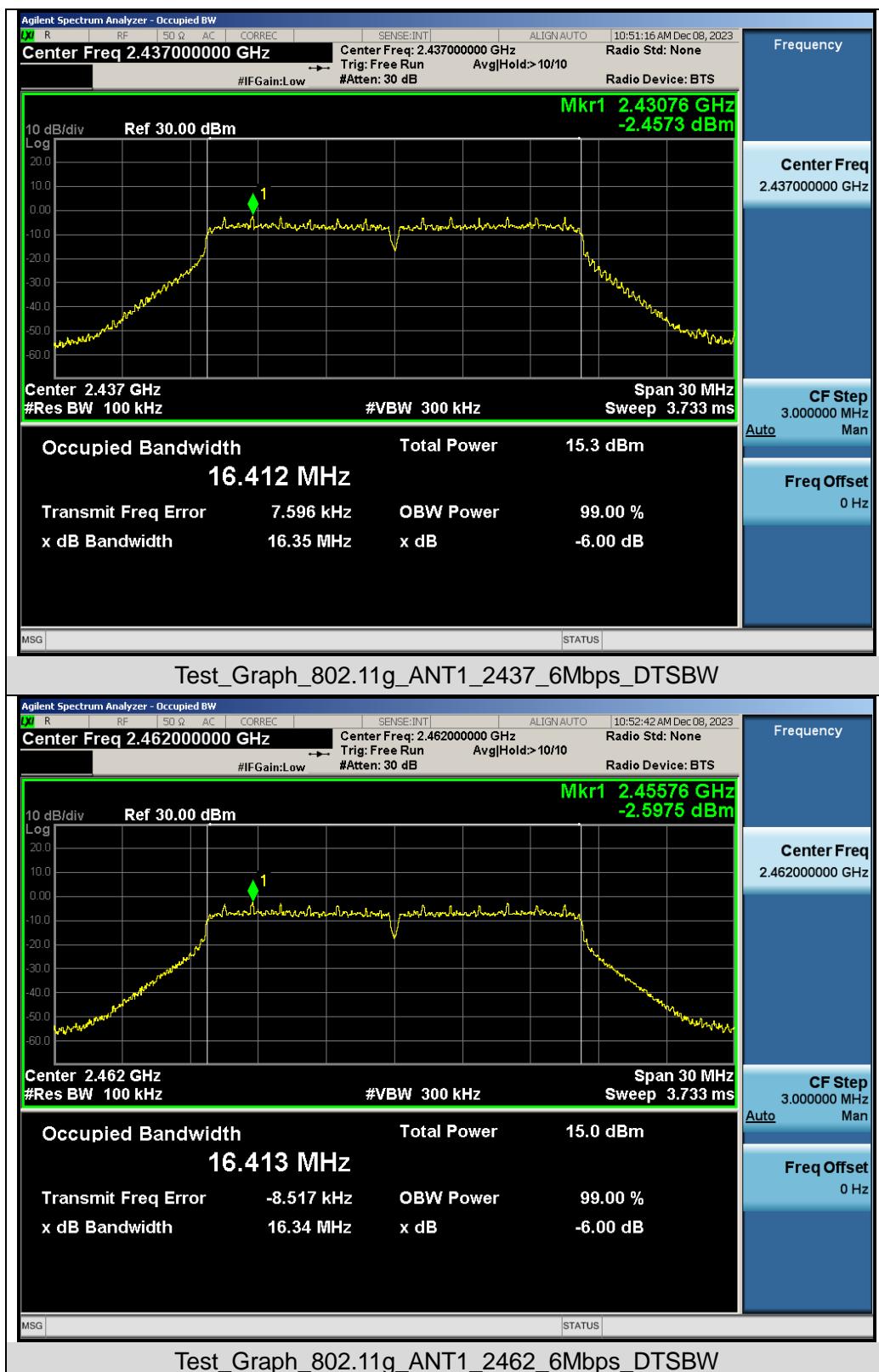


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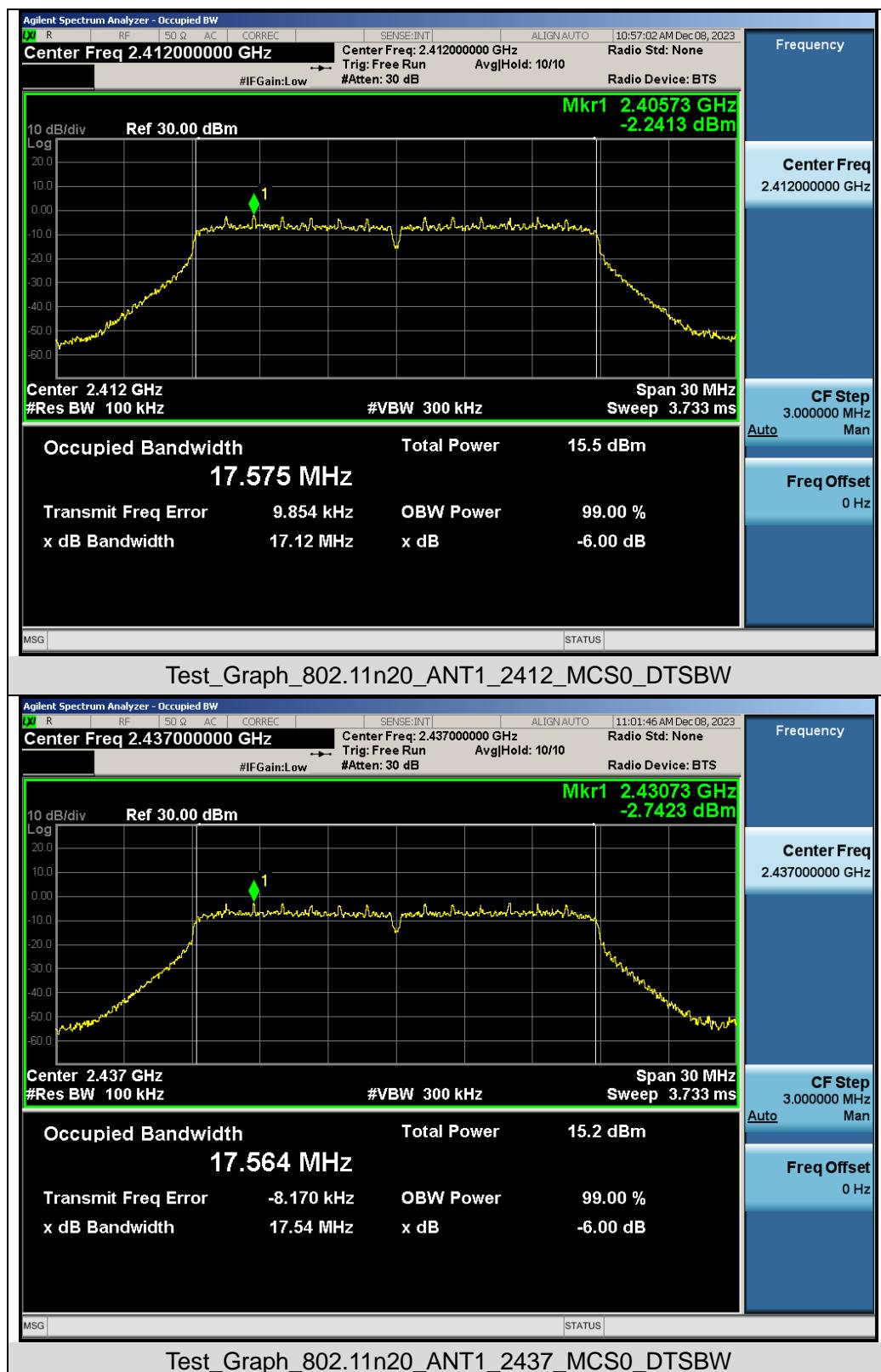


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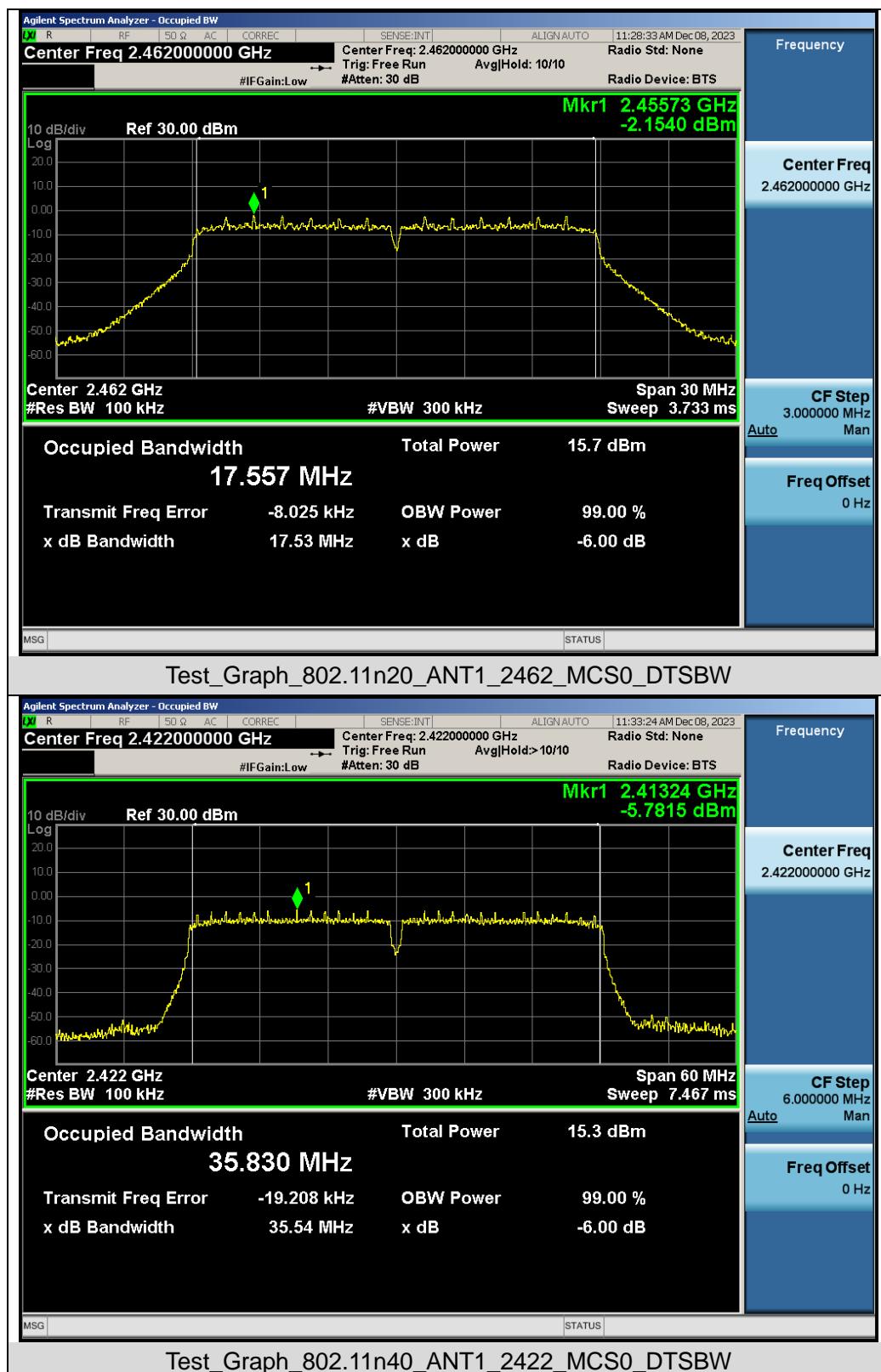


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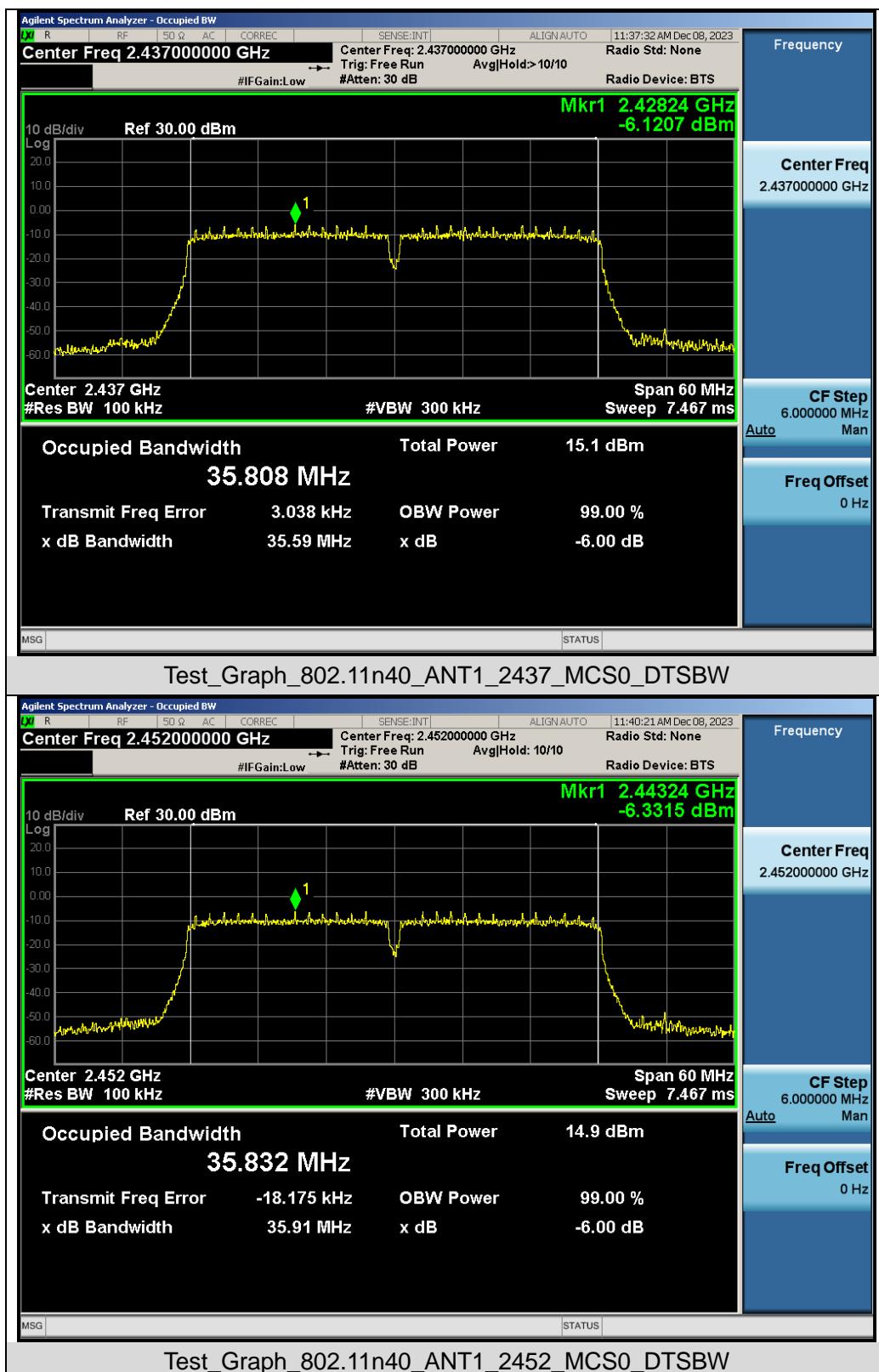


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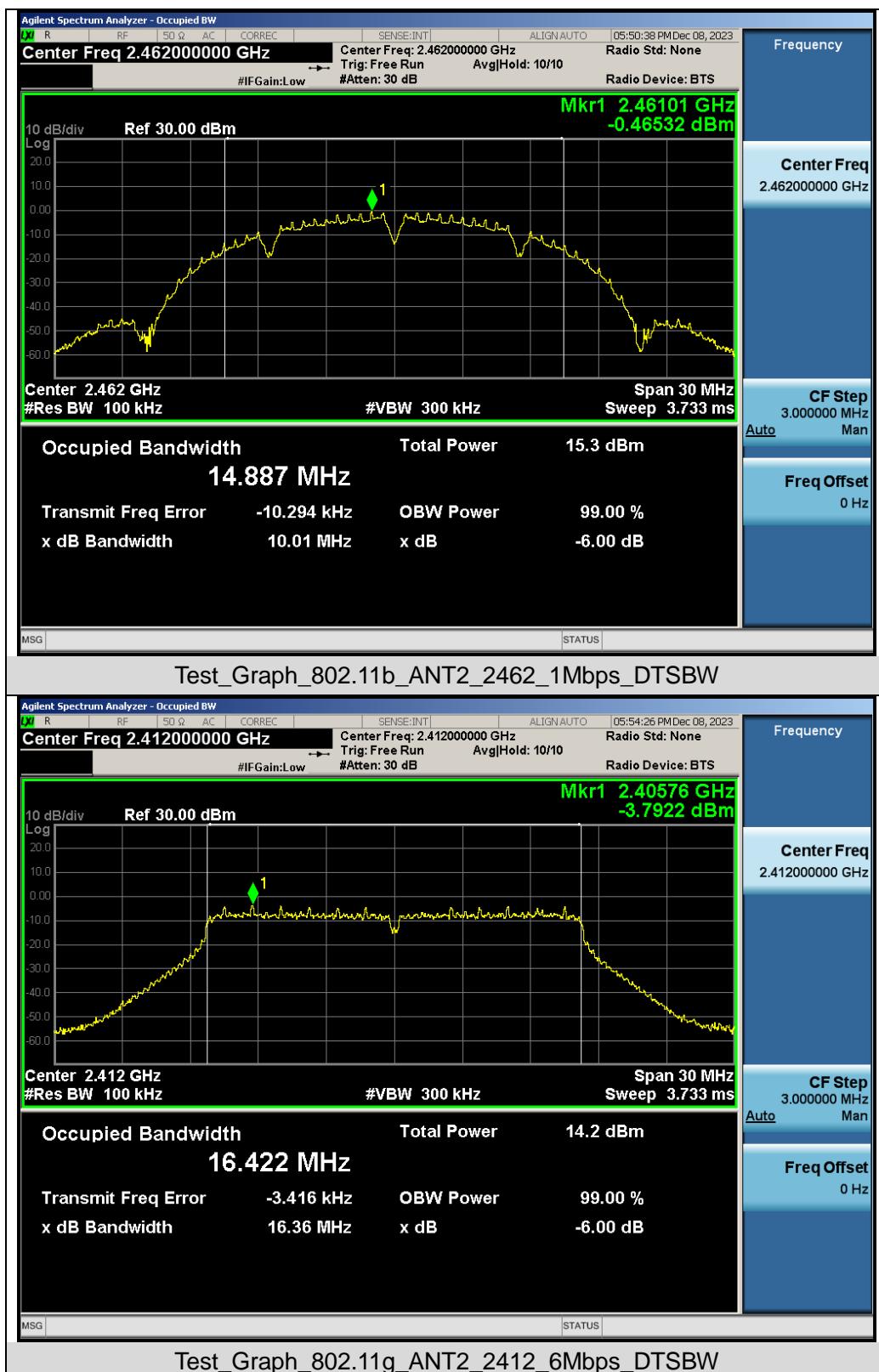


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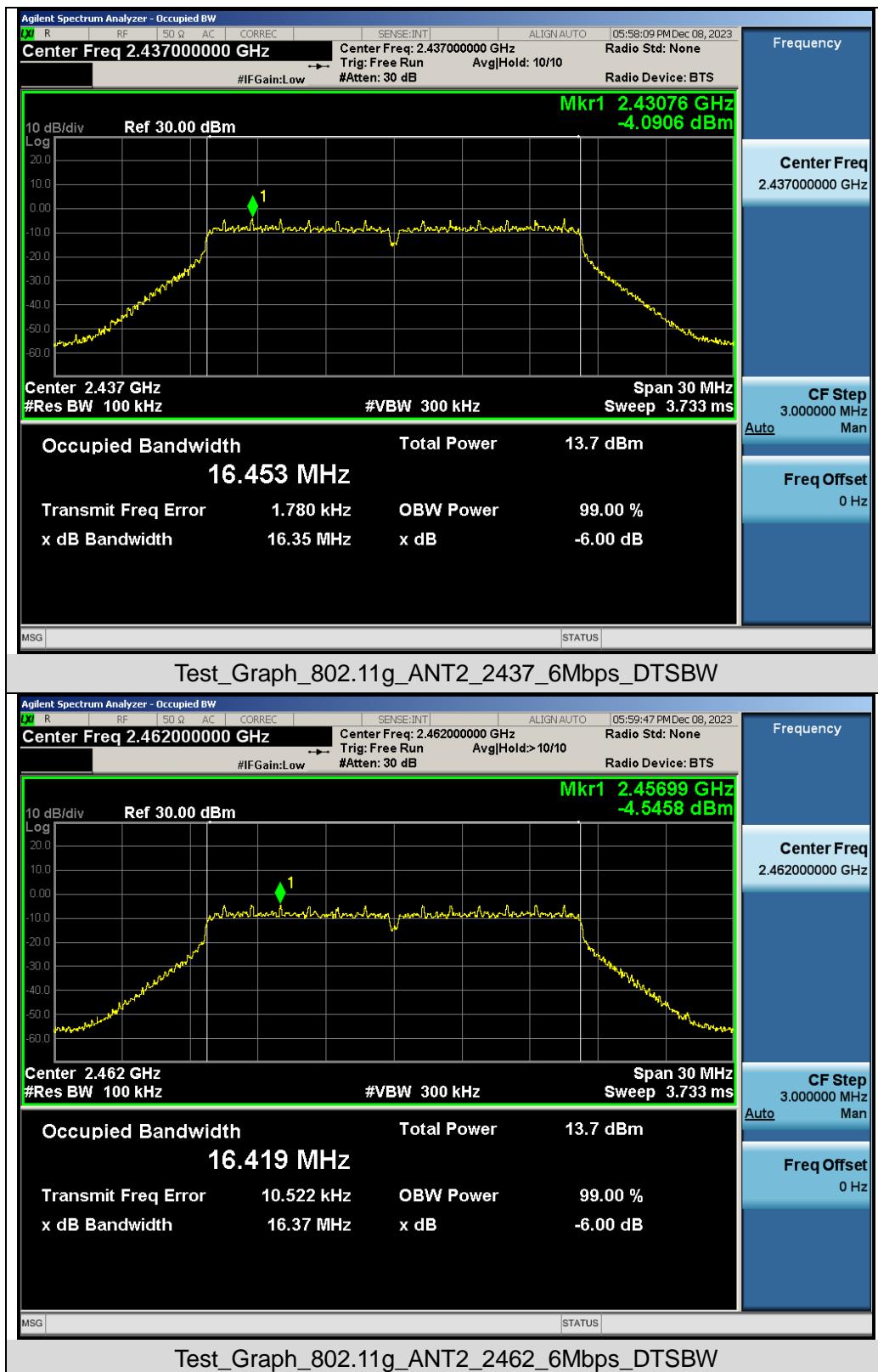


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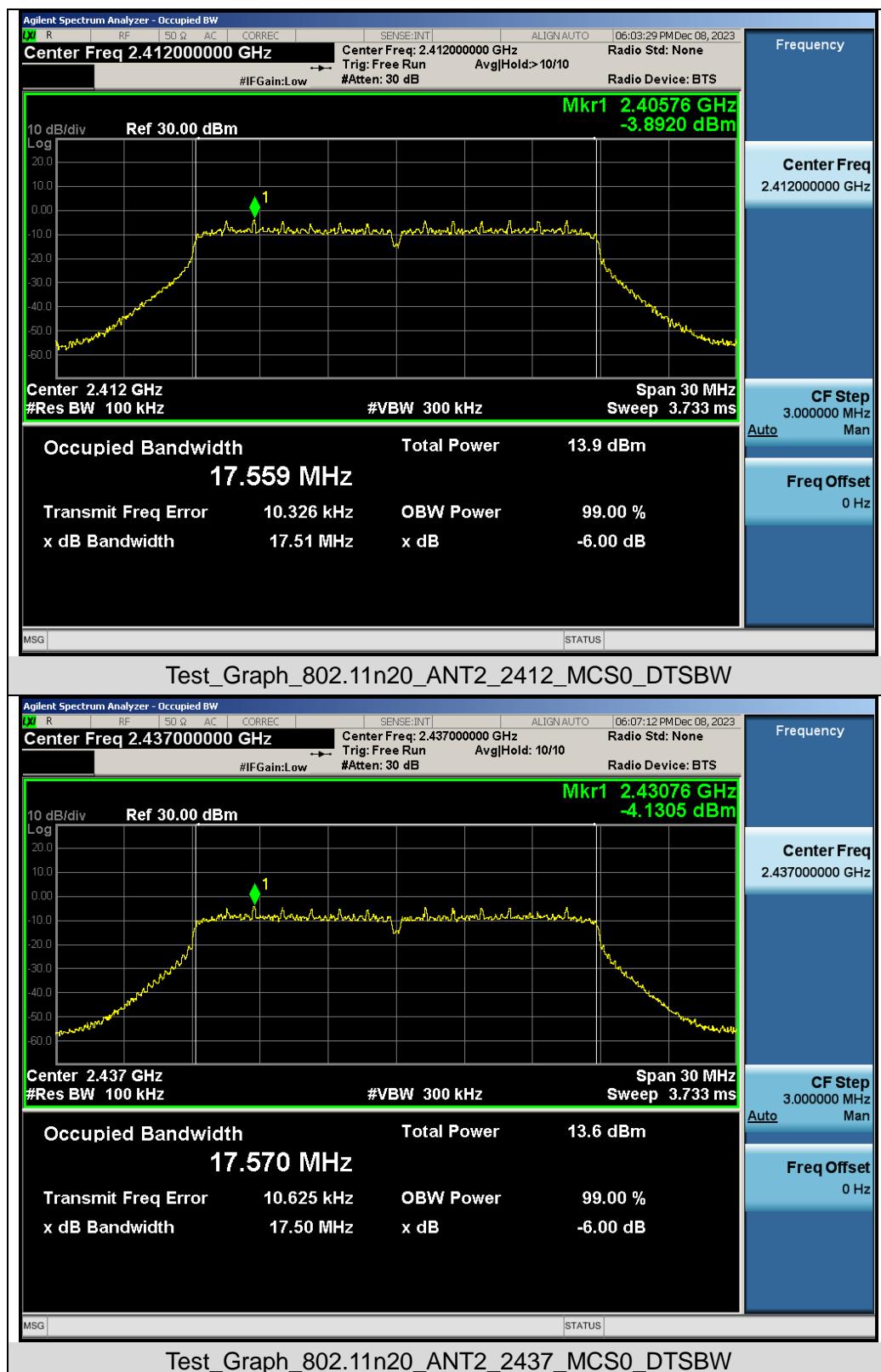


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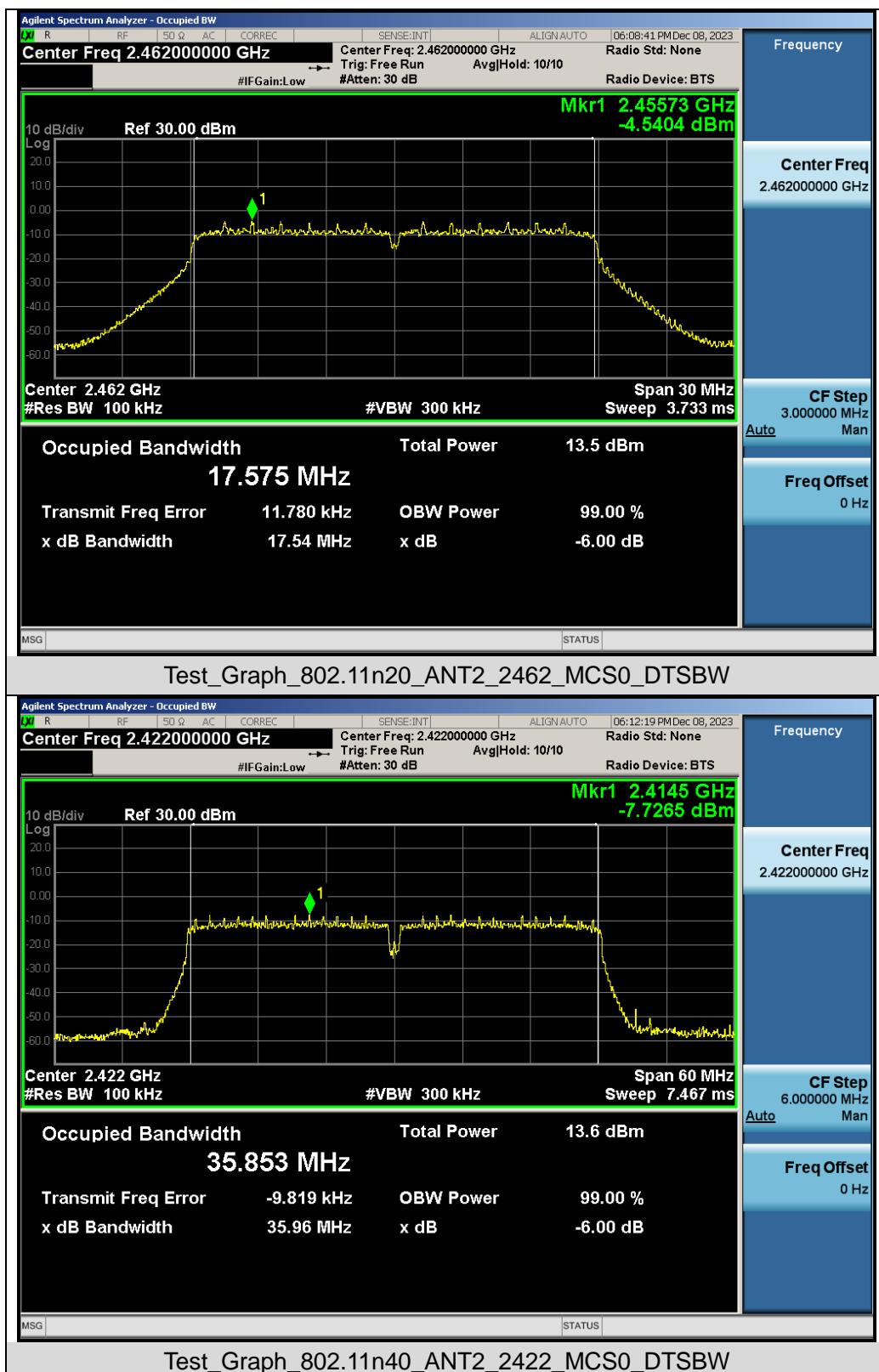


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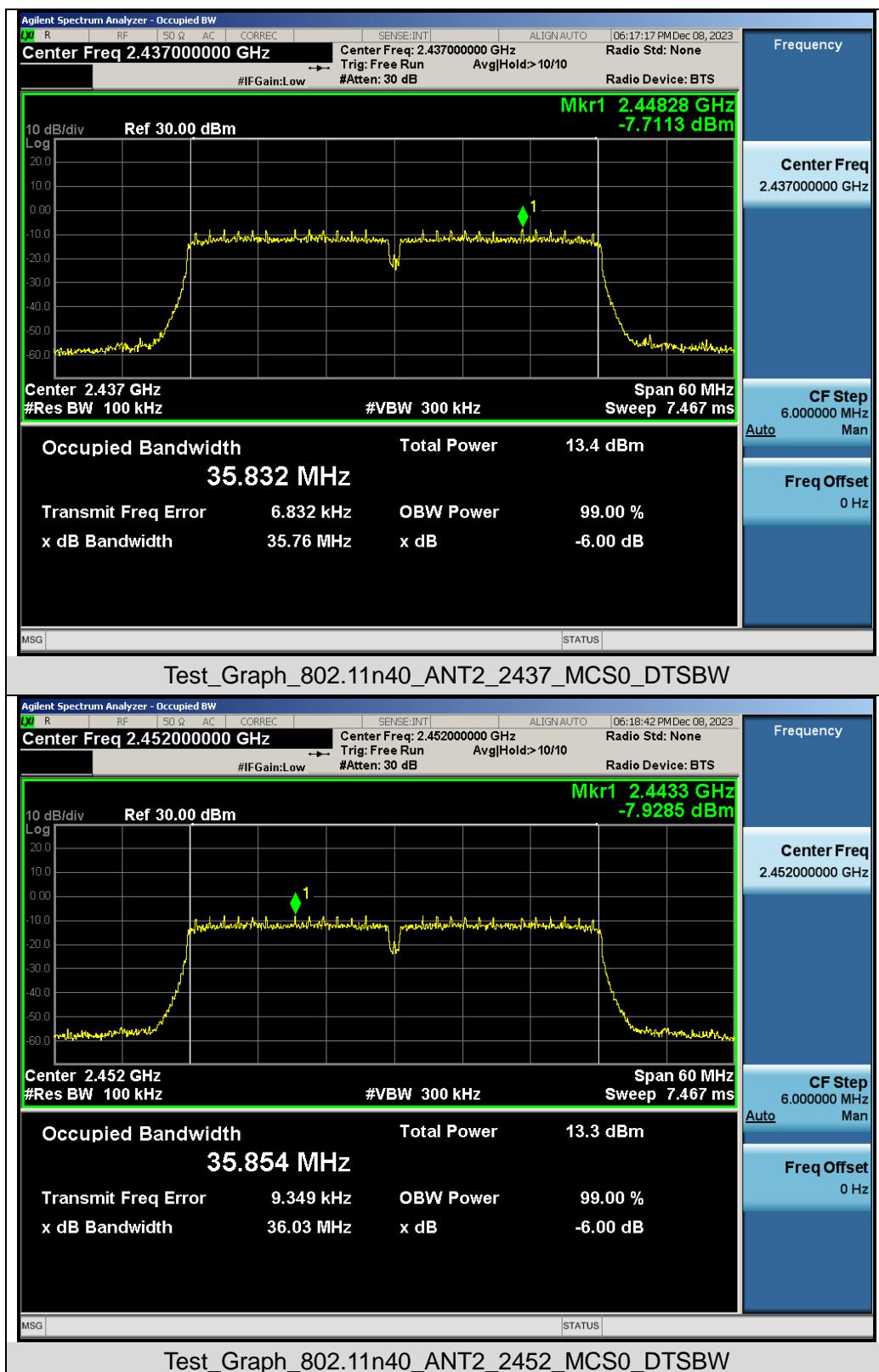


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## 9. Power Spectral Density Measurement

### 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 = 20 kHz.
4. Set the VBW  $\geq [3 \times \text{RBW}]$ .
5. Set the Span  $\geq [1.5 \times \text{DTS bandwidth}]$ .
6. Sweep time=Auto couple.
7. Detector function=Peak.
8. Trace Mode=Max hold.
9. When the measurement bandwidth of Maximum PSD is specified in 3 kHz, add a constant factor  $10 \times \log(3\text{kHz}/20\text{kHz}) = -8.23 \text{ dB}$  to the measured 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  $\geq [3 \times \text{RBW}]$ .
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 Maximum PSD is specified in 3 kHz, add a constant factor  $10 \times \log(3\text{kHz}/20\text{kHz}) = -8.23 \text{ dB}$  to the measured 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  $[10 \log (1/0.25)] = 6 \text{ dB}$  if the duty cycle is 25%.
12. Record the test results in the report.

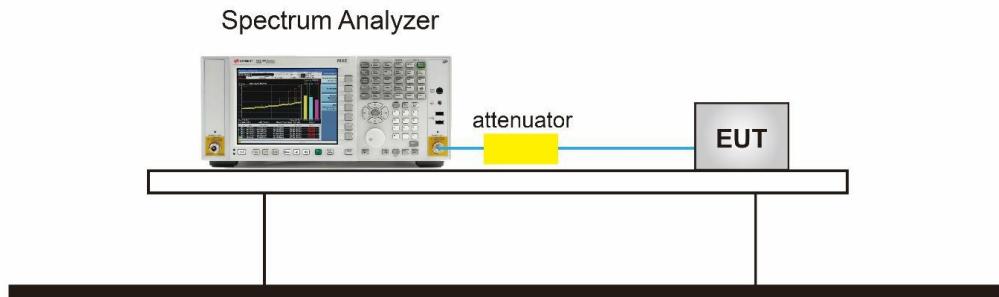
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### 9.3 Measurement Setup (Block Diagram of Configuration)



### 9.4 Measurement Result

Test Data of Conducted Output Power Spectral Density-ANT 1					
Test Mode	Test Frequency (MHz)	Power Spectral density (dBm/20kHz)	Power Spectral density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
802.11b	2412	-3.836	-12.075	≤8	Pass
	2437	-4.218	-12.457	≤8	Pass
	2462	-4.402	-12.641	≤8	Pass
802.11g	2412	-7.326	-15.565	≤8	Pass
	2437	-7.363	-15.602	≤8	Pass
	2462	-8.081	-16.32	≤8	Pass
802.11n20	2412	-7.204	-15.443	≤8	Pass
	2437	-8.061	-16.3	≤8	Pass
	2462	-7.459	-15.698	≤8	Pass
802.11n40	2422	-10.259	-18.498	≤8	Pass
	2437	-9.875	-18.114	≤8	Pass
	2452	-11.059	-19.298	≤8	Pass

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Test Data of Conducted Output Power Spectral Density-ANT 2					
Test Mode	Test Frequency (MHz)	Power Spectral density (dBm/20kHz)	Power Spectral density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
802.11b	2412	-6.072	-14.311	≤8	Pass
	2437	-5.564	-13.803	≤8	Pass
	2462	-5.772	-14.011	≤8	Pass
802.11g	2412	-9.521	-17.76	≤8	Pass
	2437	-9.330	-17.569	≤8	Pass
	2462	-9.763	-18.002	≤8	Pass
802.11n20	2412	-10.219	-18.458	≤8	Pass
	2437	-9.790	-18.029	≤8	Pass
	2462	-9.341	-17.58	≤8	Pass
802.11n40	2422	-12.337	-20.576	≤8	Pass
	2437	-12.736	-20.975	≤8	Pass
	2452	-12.612	-20.851	≤8	Pass

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Test Data of Conducted Output Power Spectral Density-MIMO					
Test Mode	Test Frequency (MHz)	Power Spectral density (dBm/20kHz)	Power Spectral density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
802.11n20	2412	-5.445	-13.684	≤7.22	Pass
	2437	-5.830	-14.069	≤7.22	Pass
	2462	-5.289	-13.528	≤7.22	Pass
802.11n40	2422	-8.165	-16.404	≤7.22	Pass
	2437	-8.064	-16.303	≤7.22	Pass
	2452	-8.756	-16.995	≤7.22	Pass

**Note:**

1. The Total Power Spectral Density (dBm) =  $10^{\log \{10^{(\text{Ant1 PSD /10})} + 10^{(\text{Ant2 PSD /10})}\}}$ .

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## Test Graphs of Conducted Output Power Spectral Density



Test\_Graph\_802.11b\_ANT1\_2412\_1Mbps\_PSD



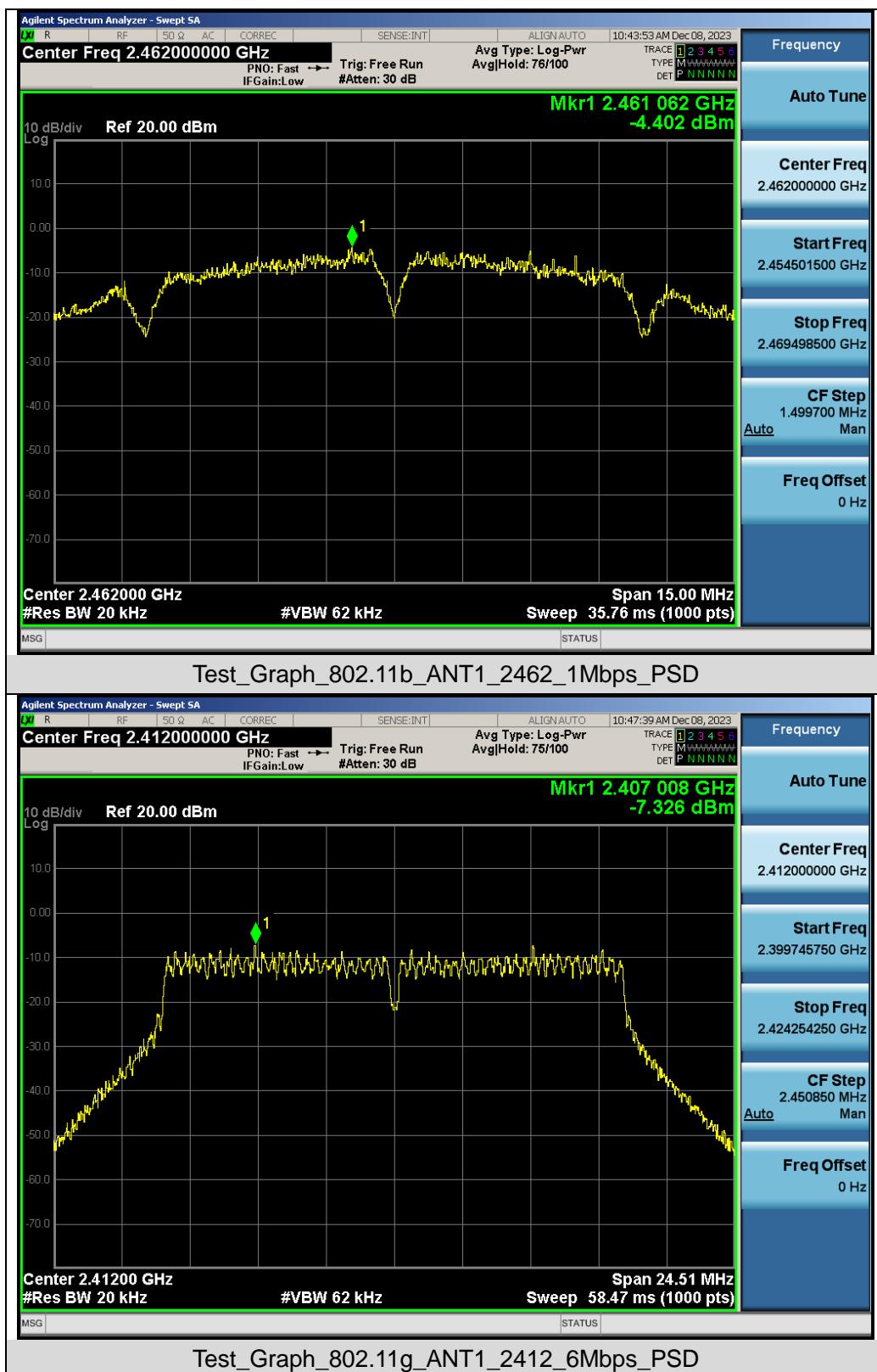
Test\_Graph\_802.11b\_ANT1\_2437\_1Mbps\_PSD

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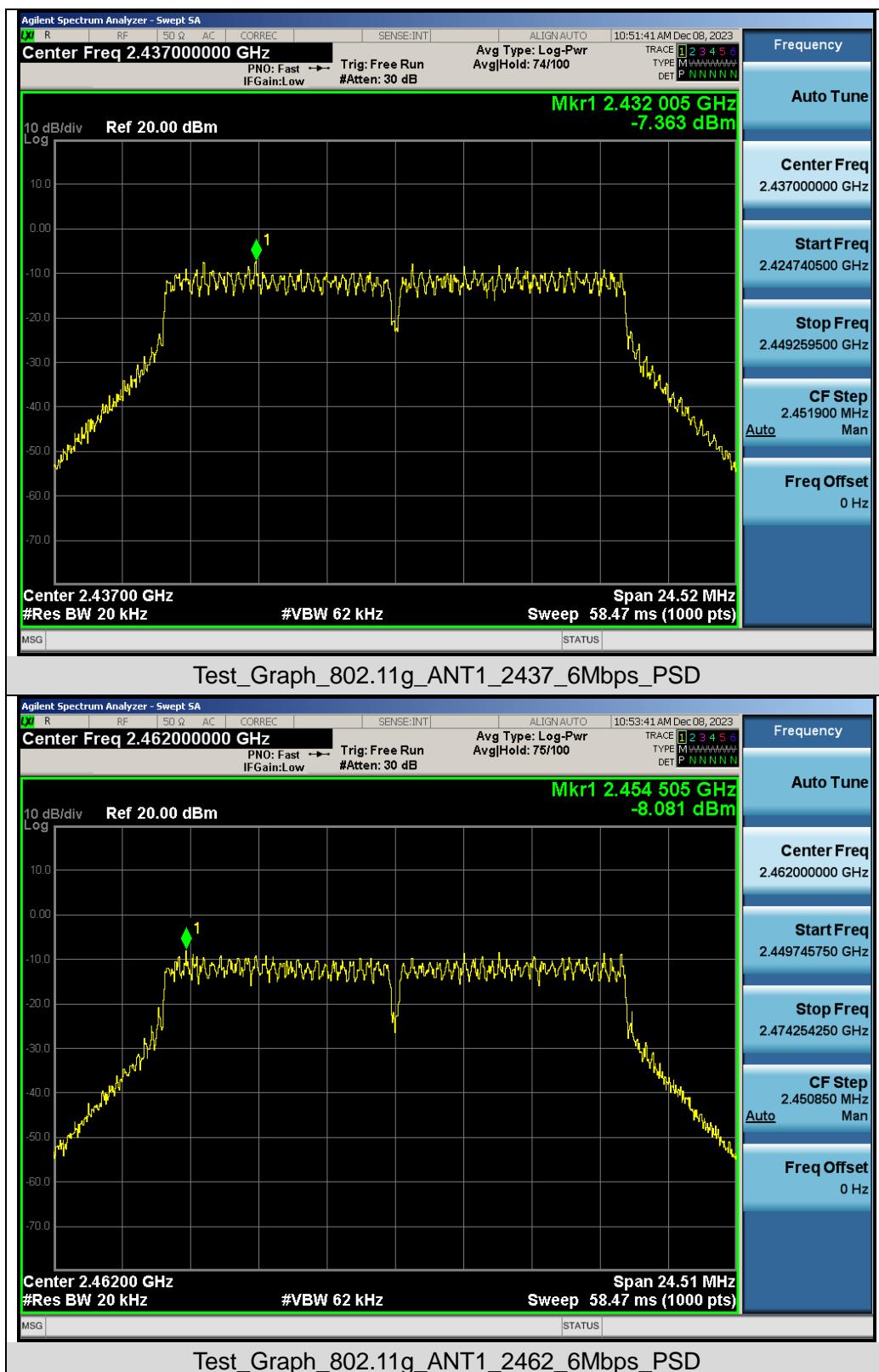


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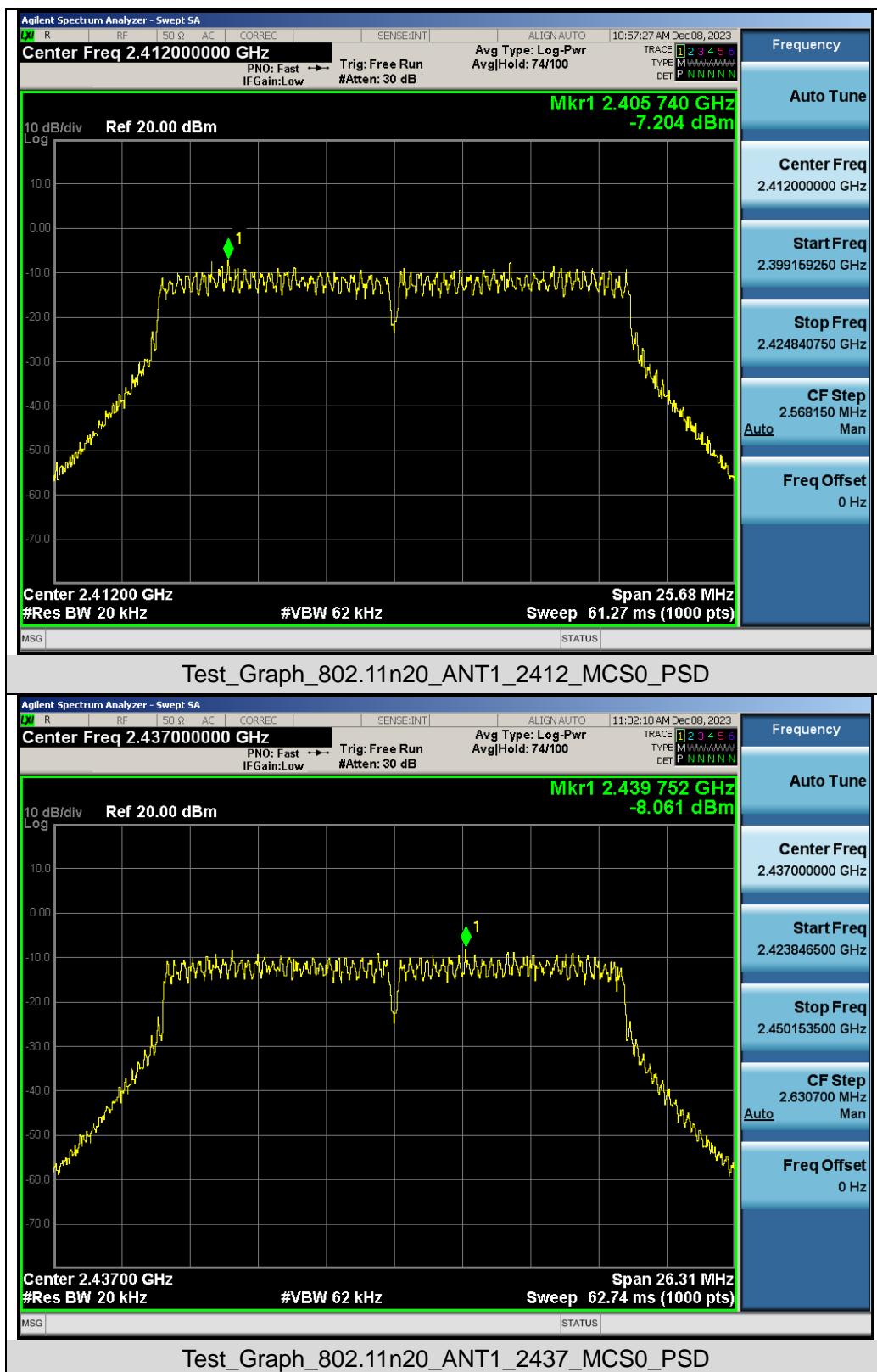


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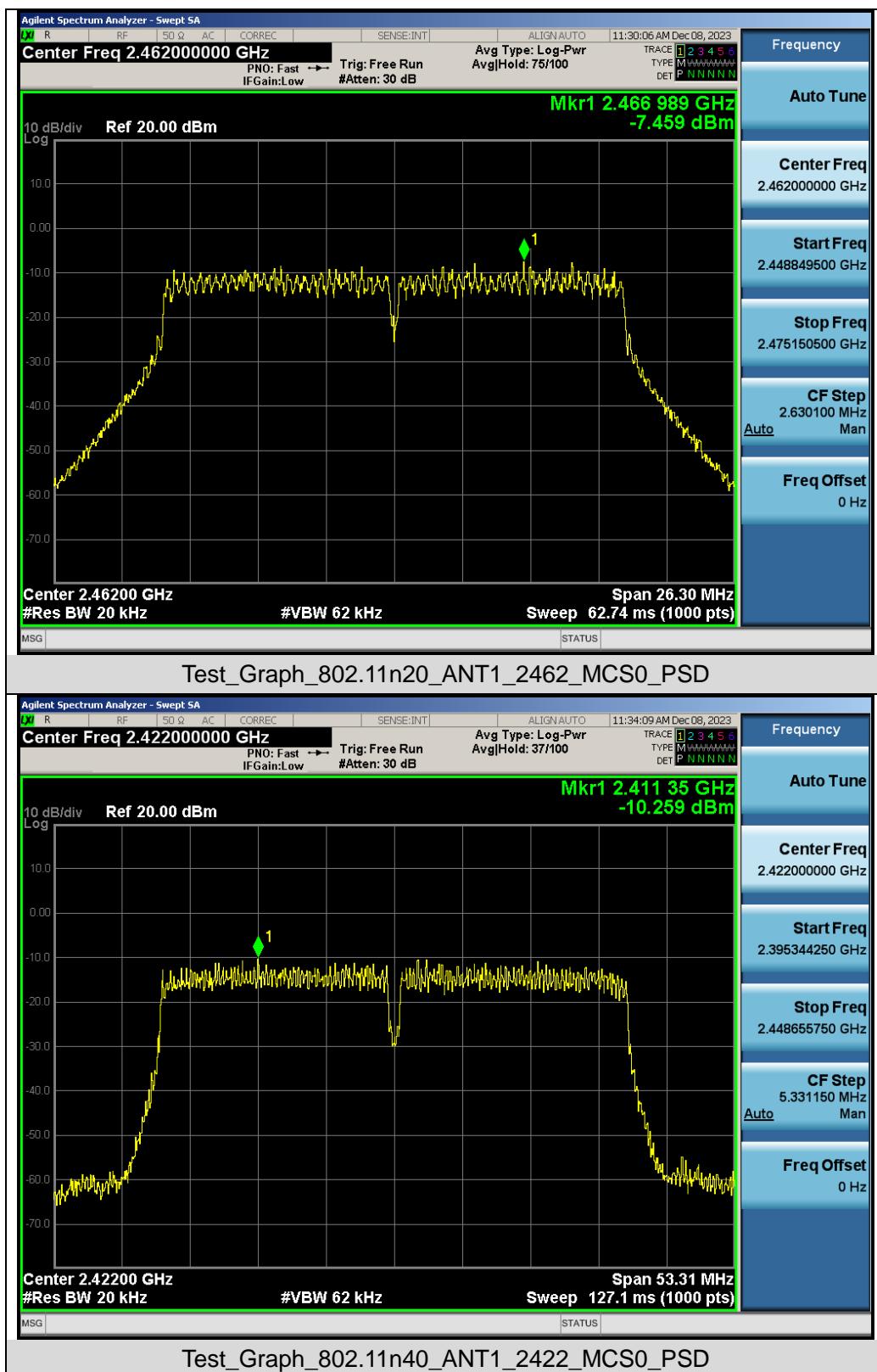


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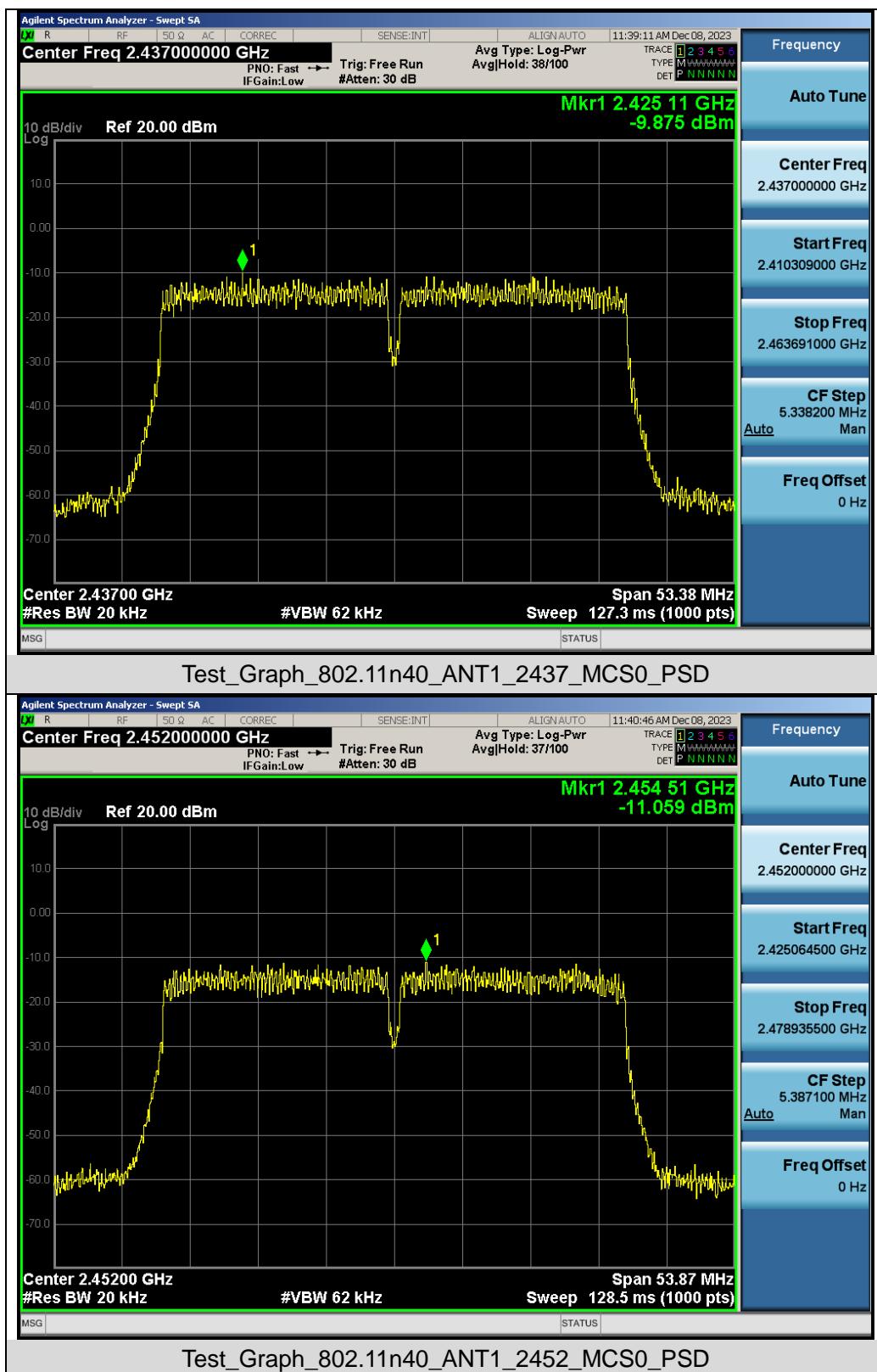


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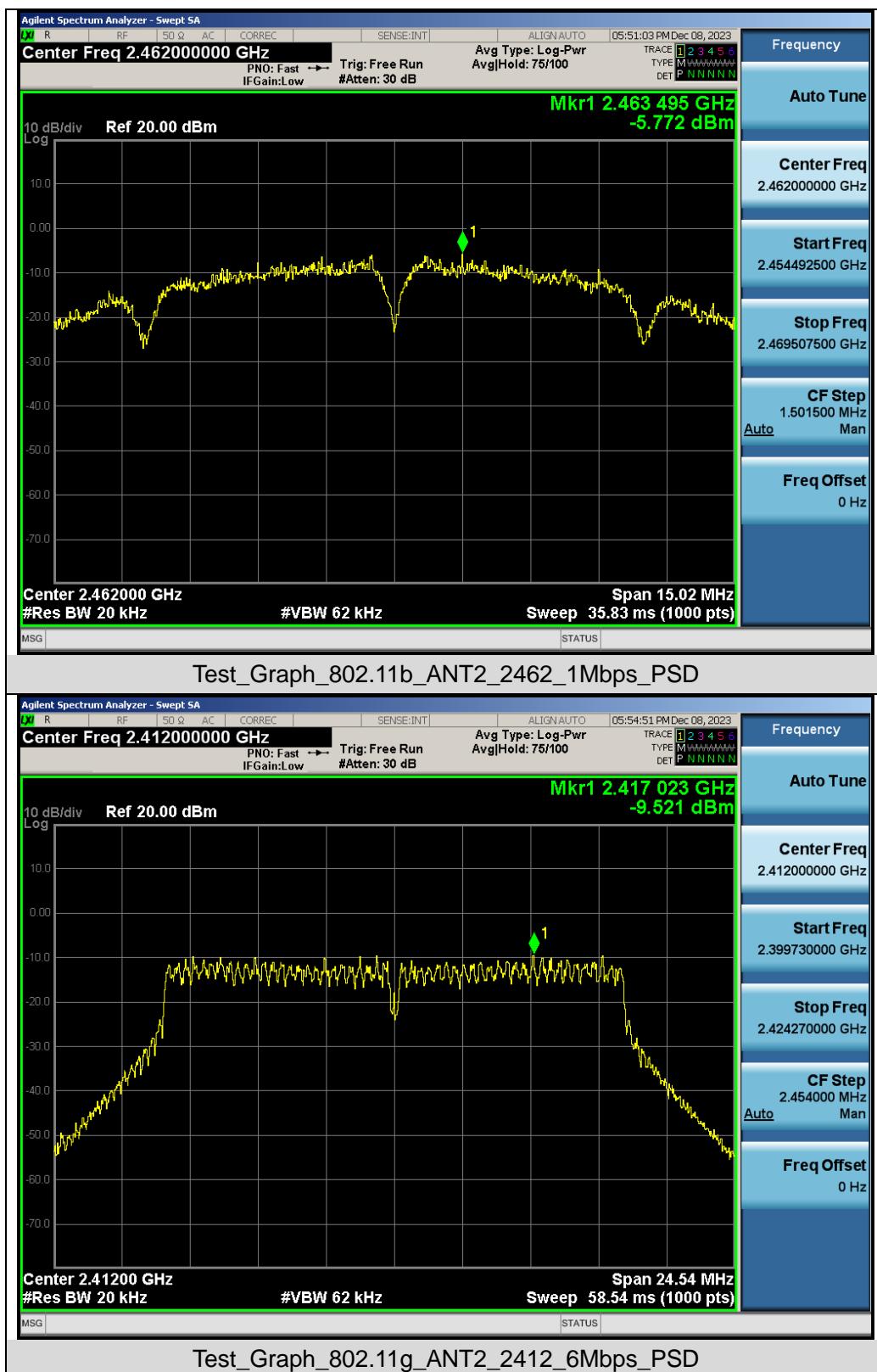


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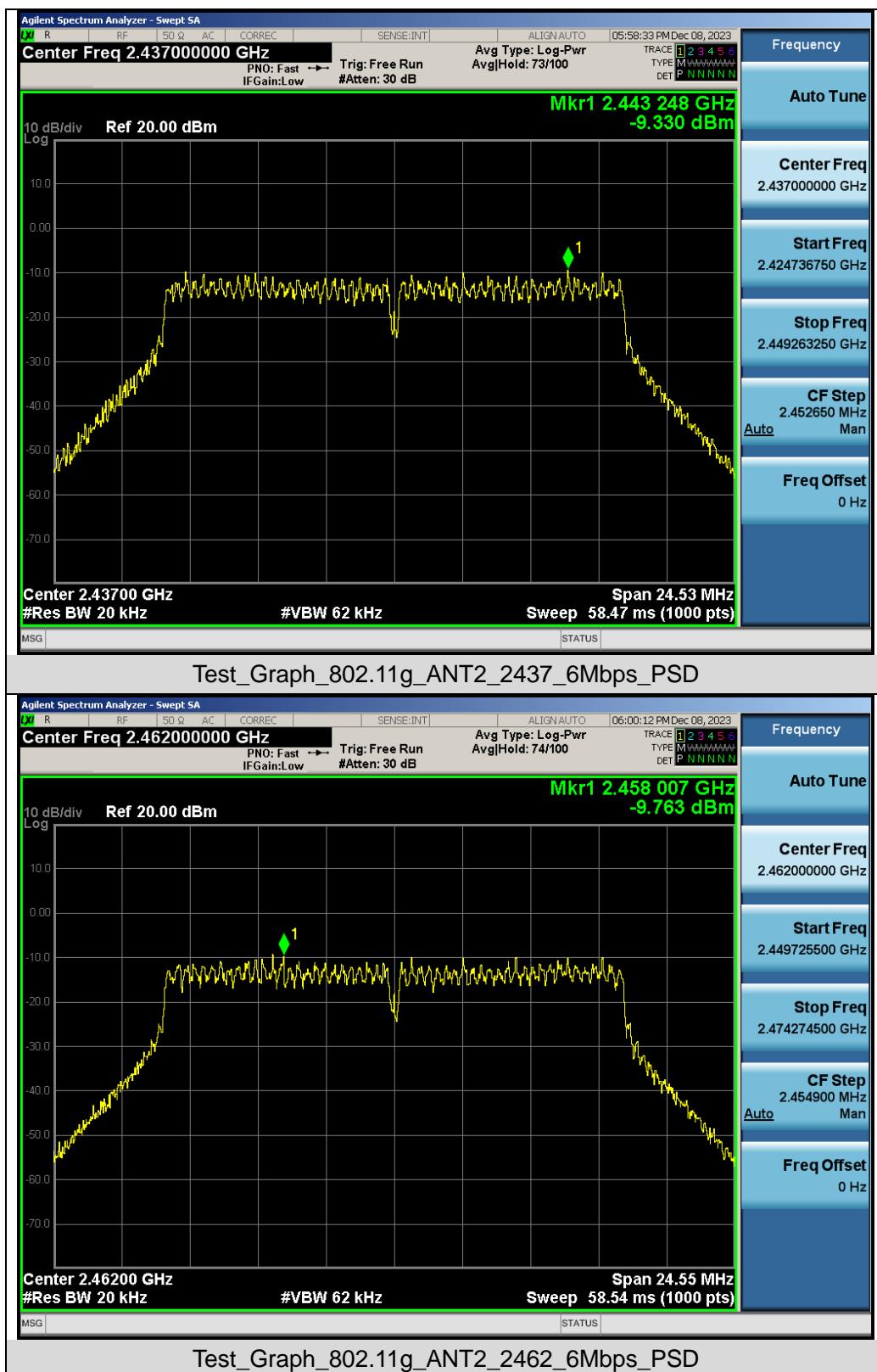


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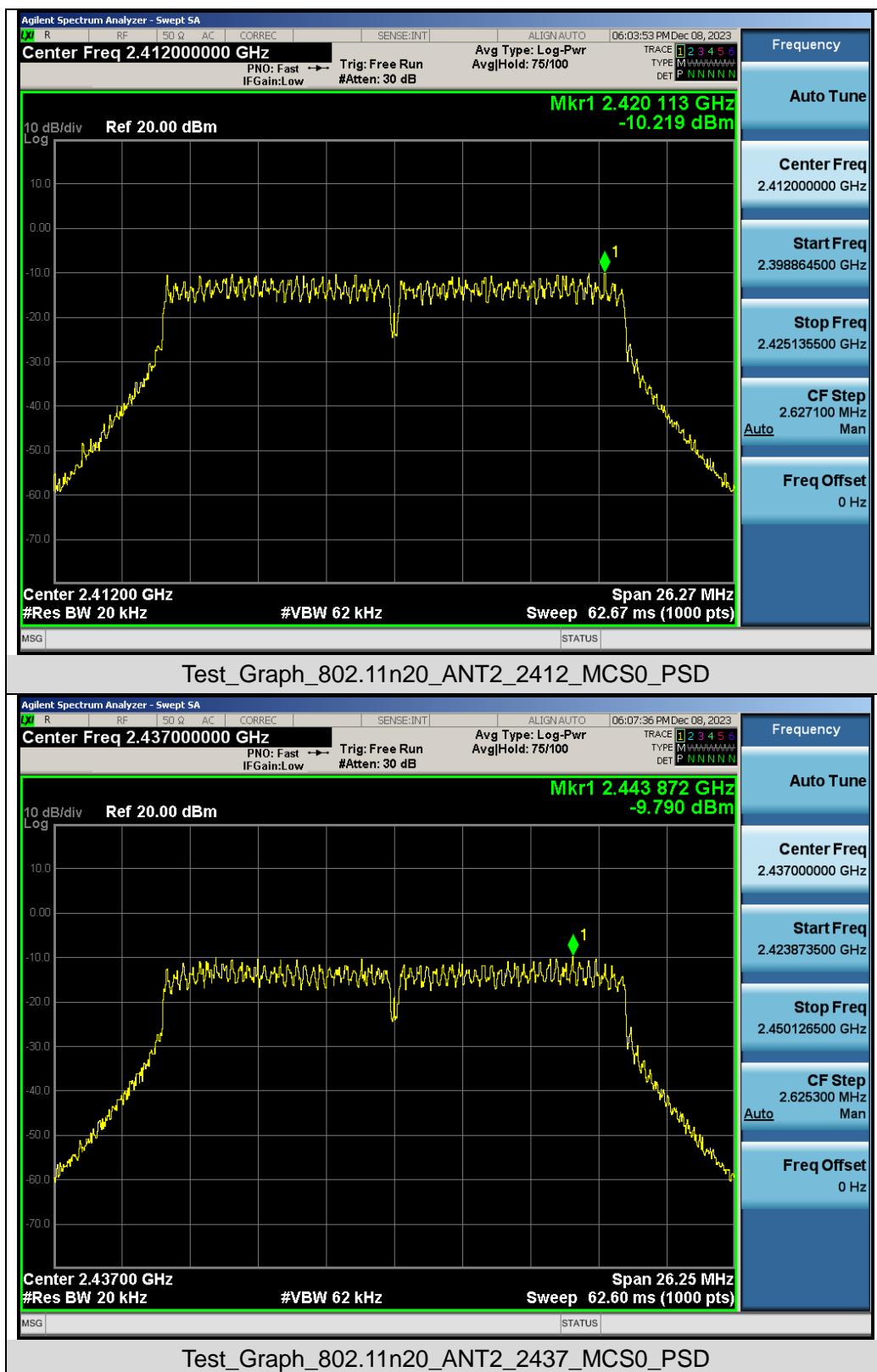


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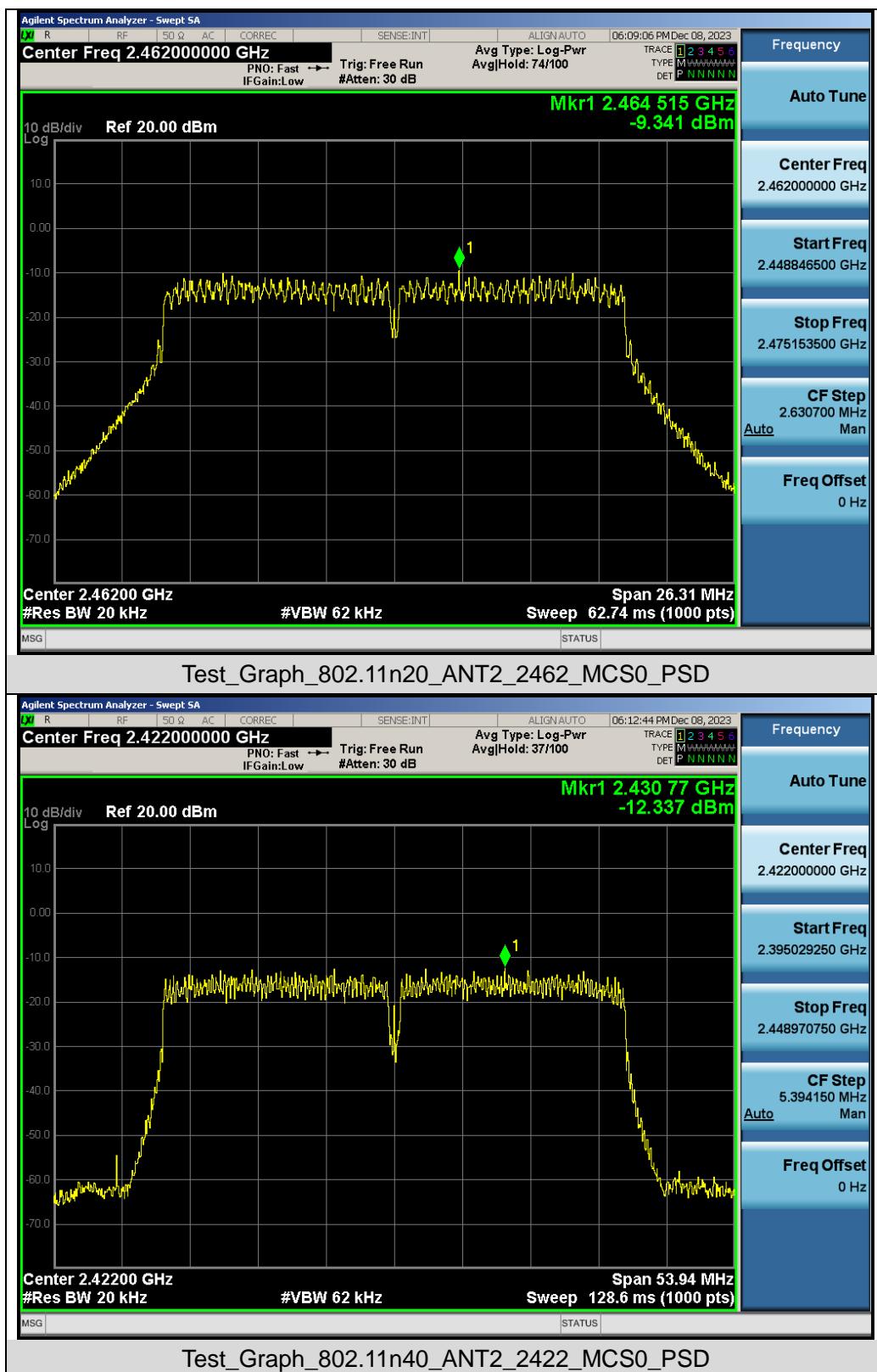


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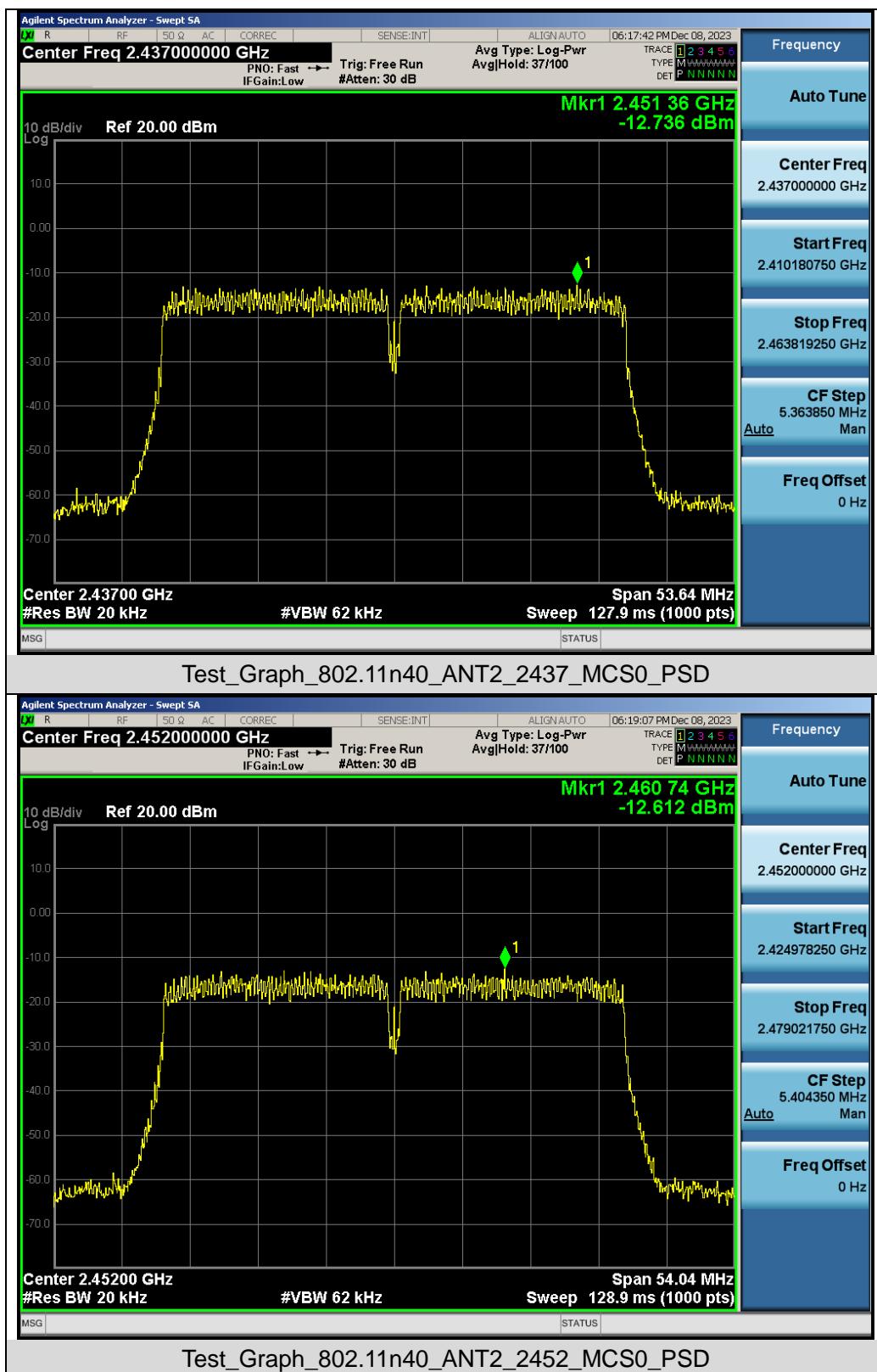


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## 10. Conducted Band Edge and Out-of-Band Emissions

### 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

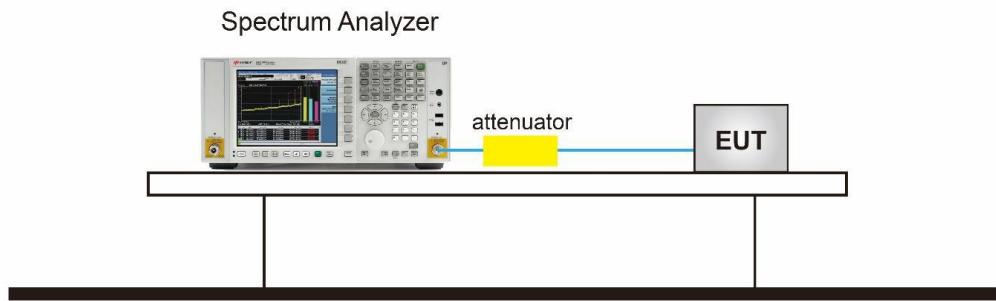
Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

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  $\geq 1.5$  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.
- Step 2: Measurement Procedure Out of Band Emission
  1. Set RBW = 100 kHz.
  2. Set VBW  $\geq 300$  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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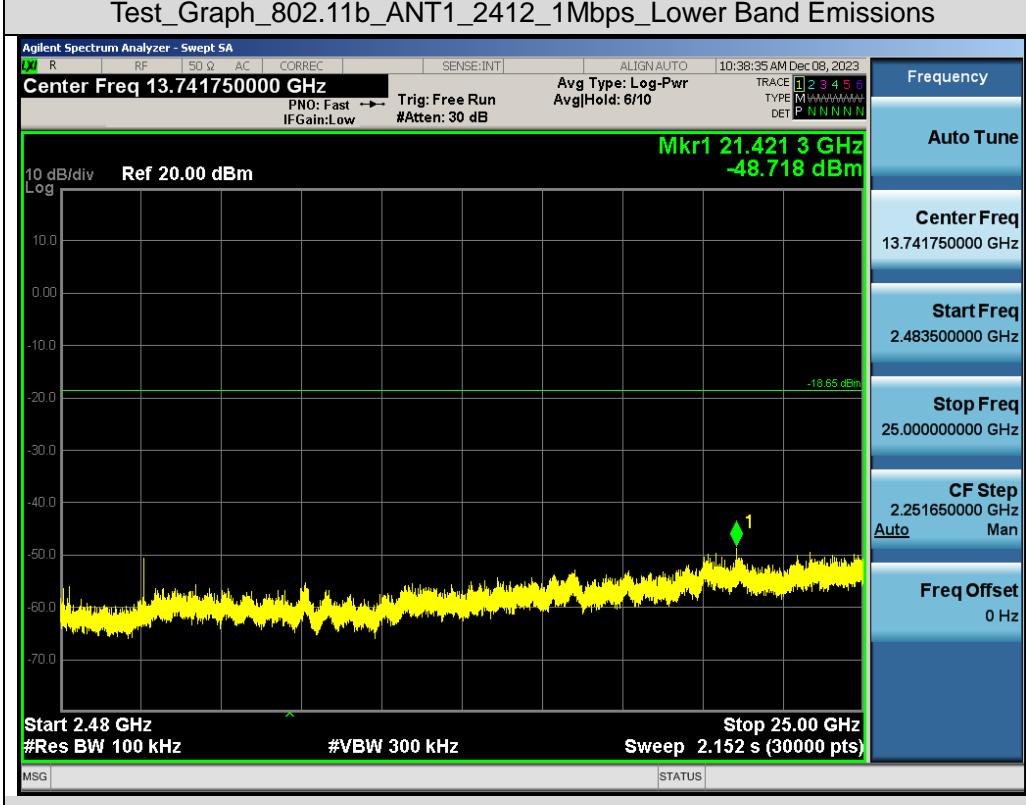
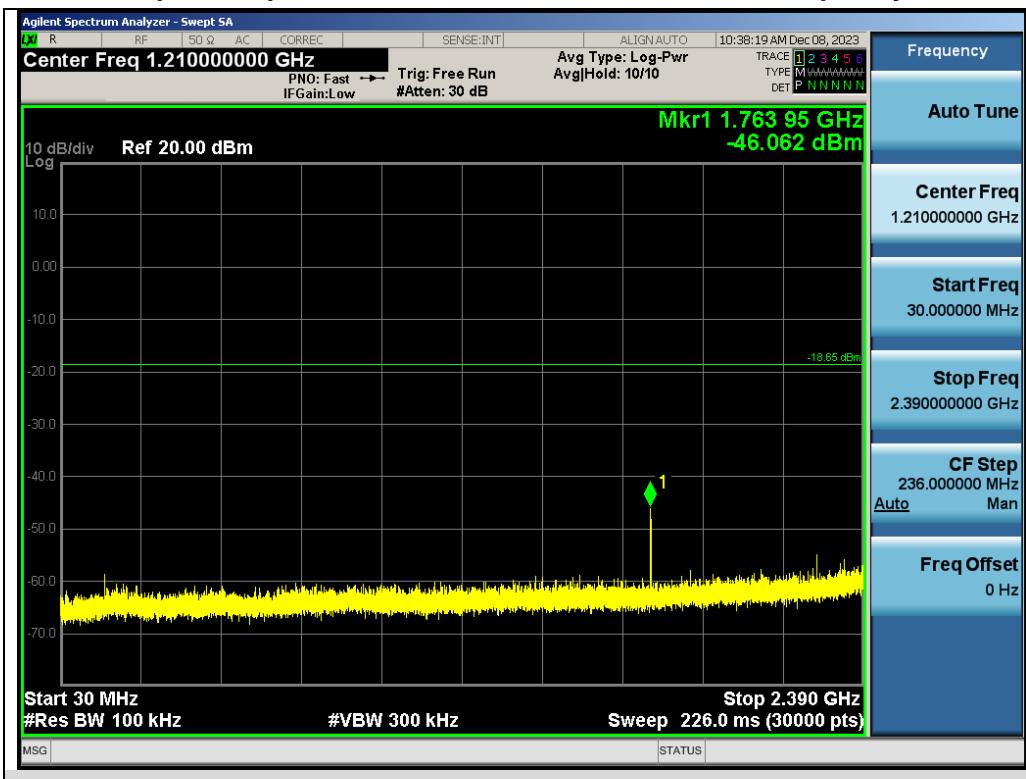
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## 10.4 Measurement Result

### Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands



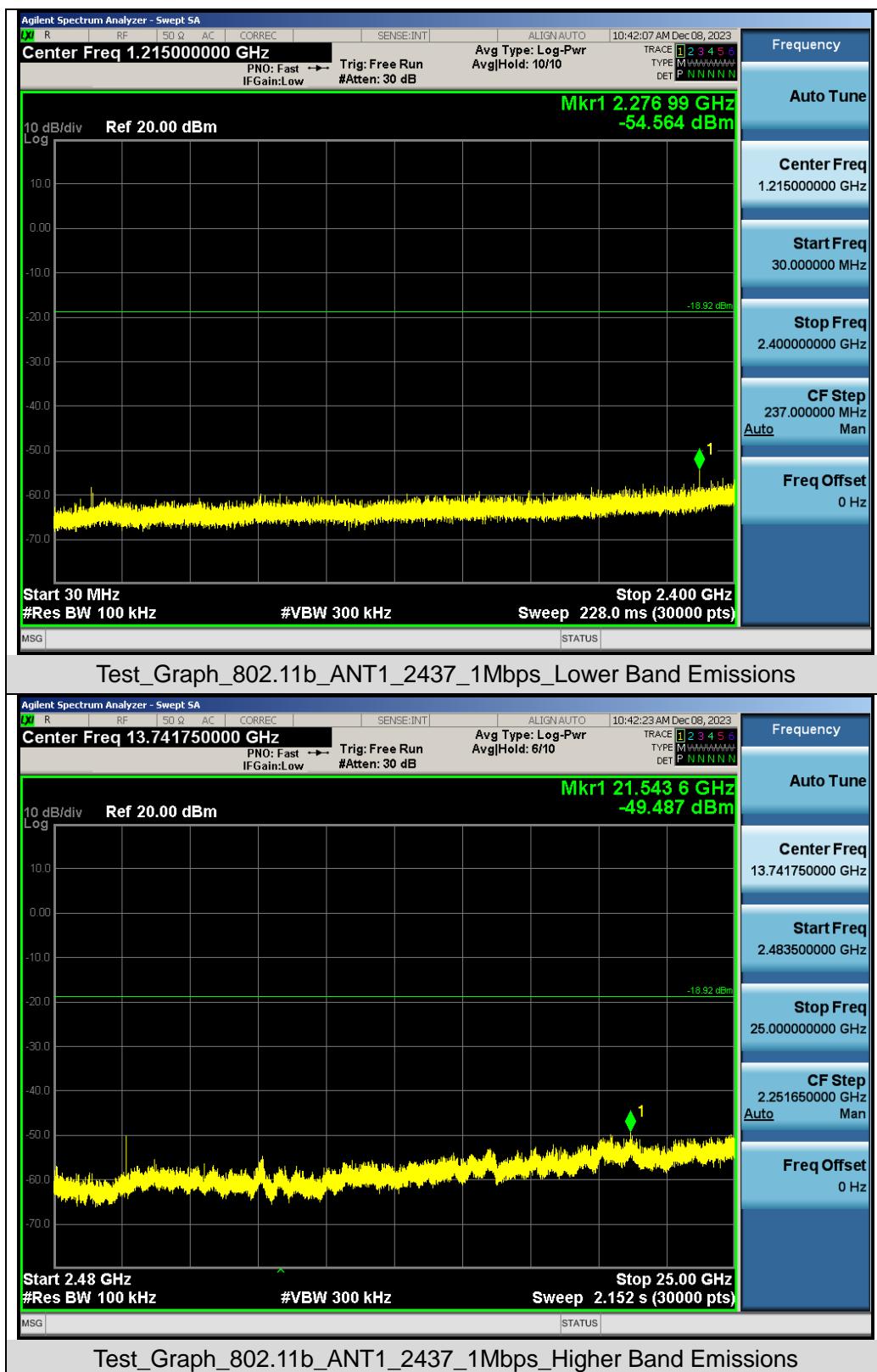
### Test\_Graph\_802.11b\_ANT1\_2412\_1Mbps\_Lower Band Emissions

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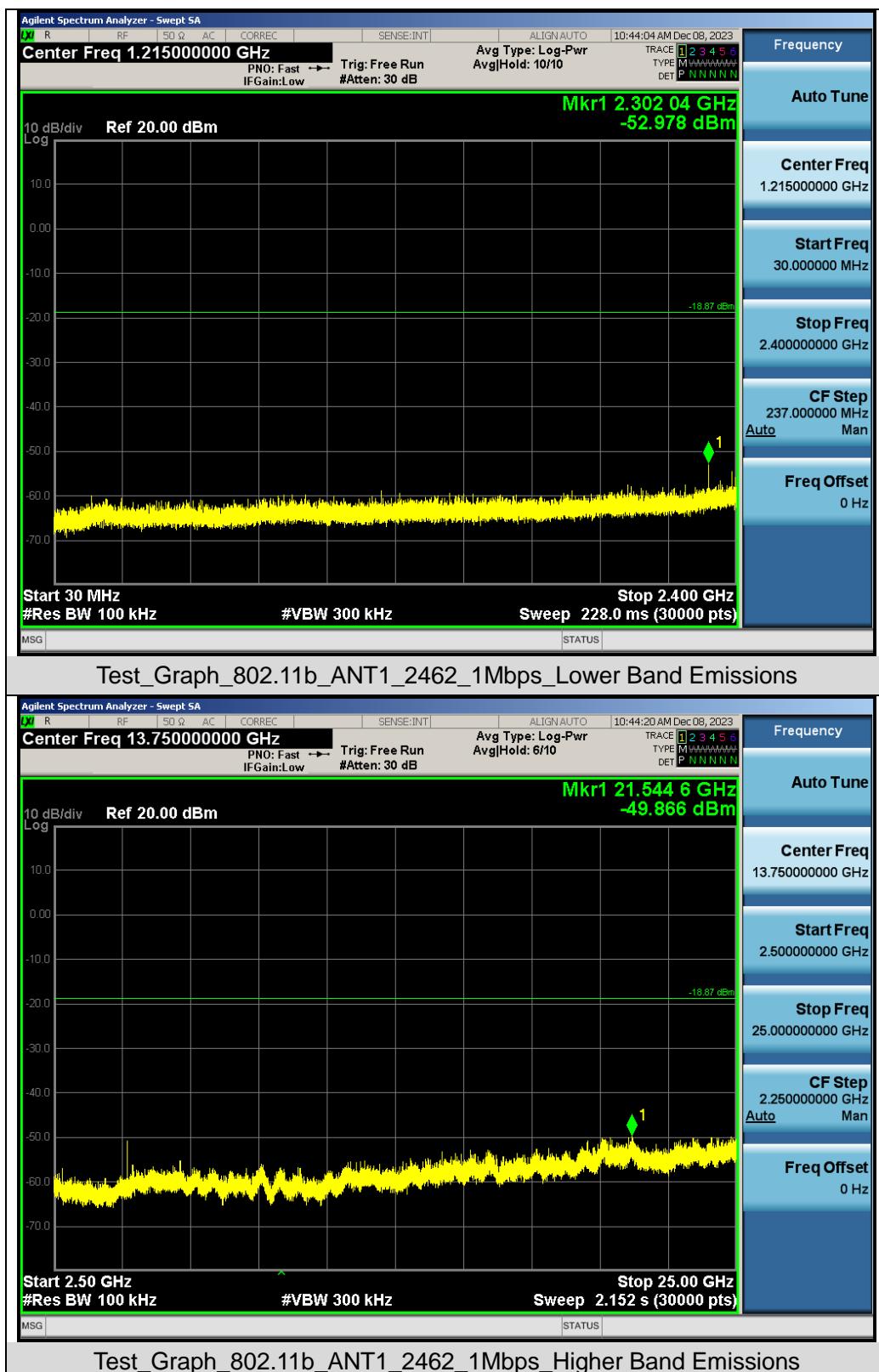


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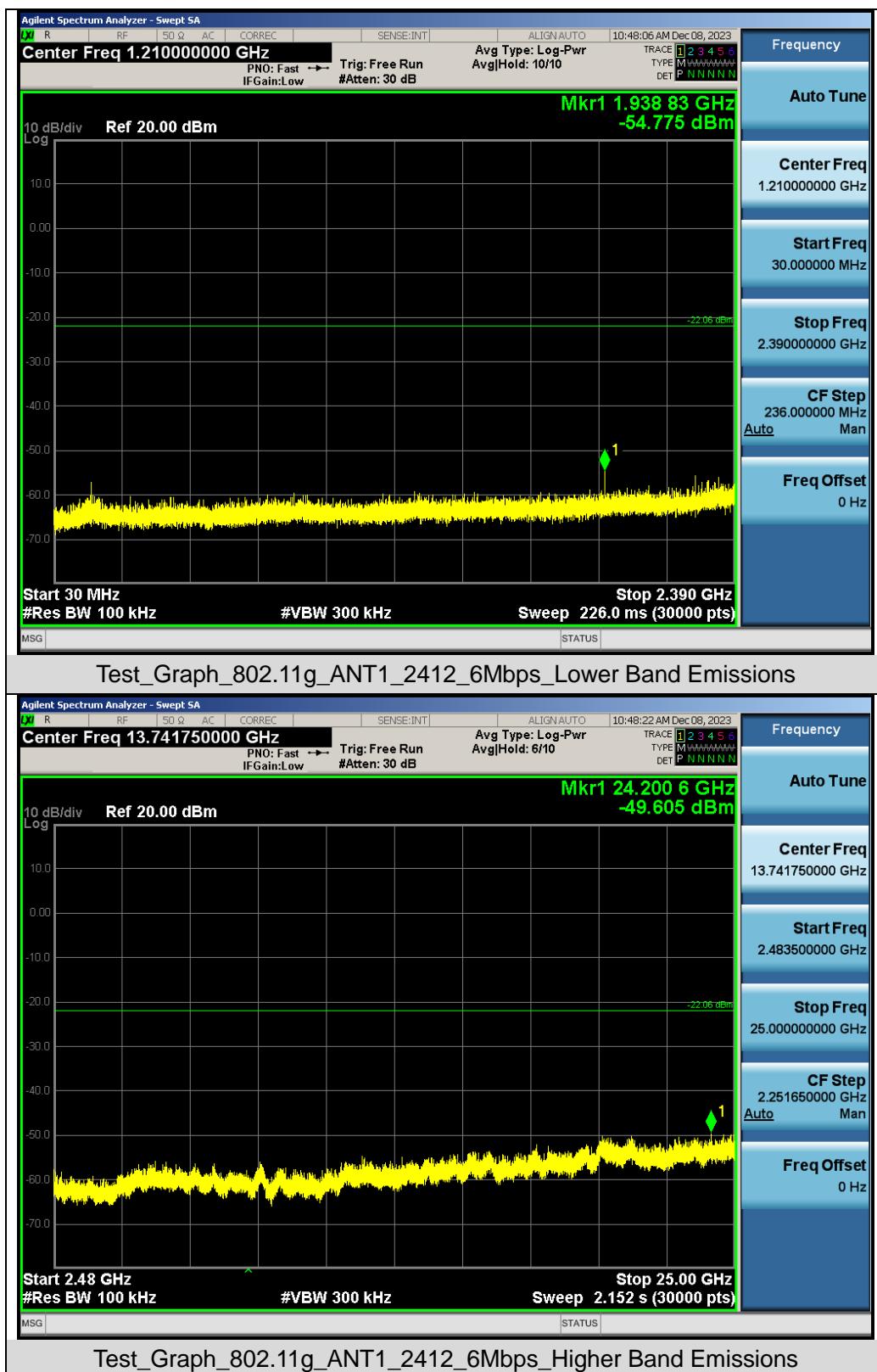


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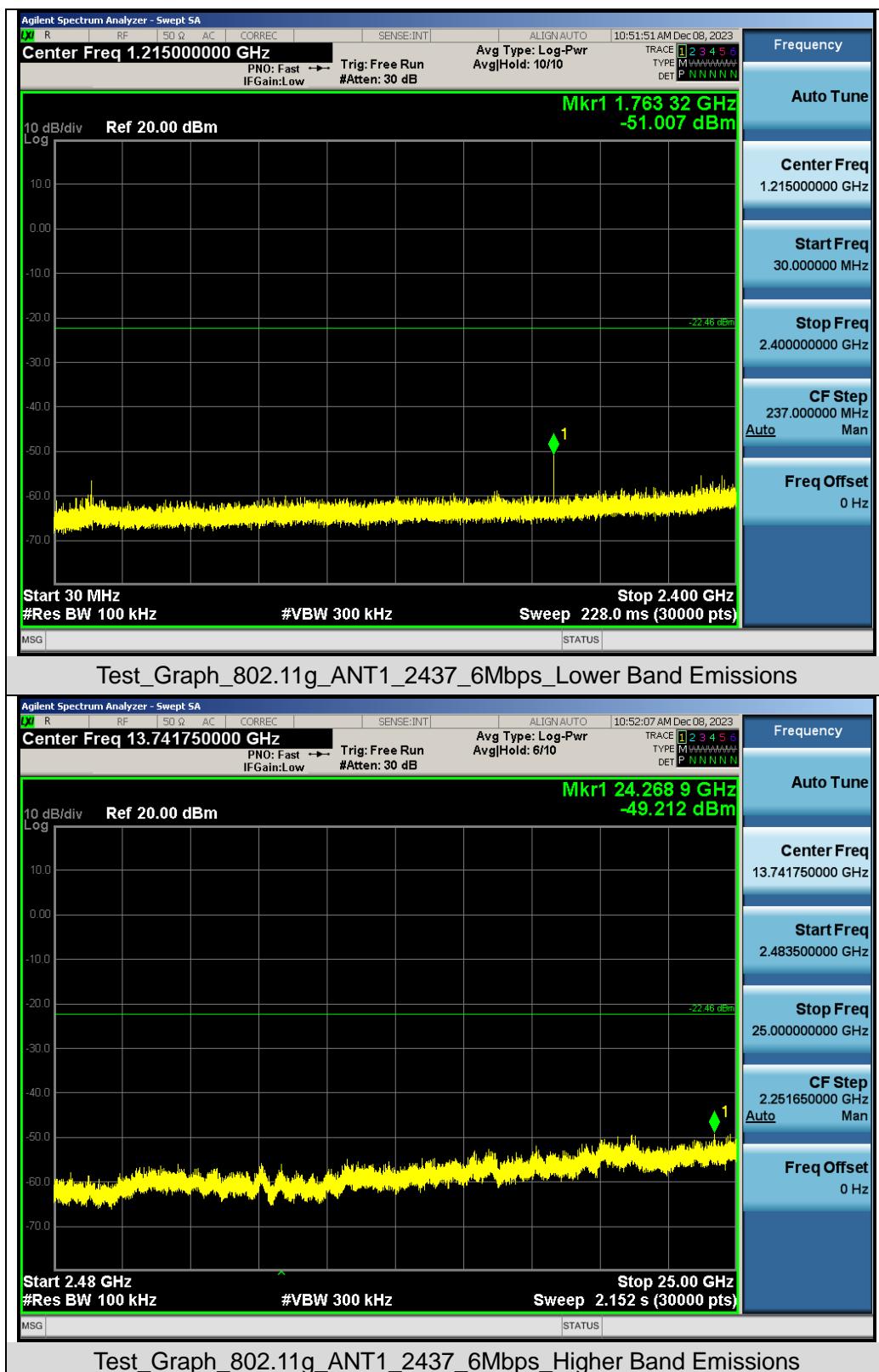


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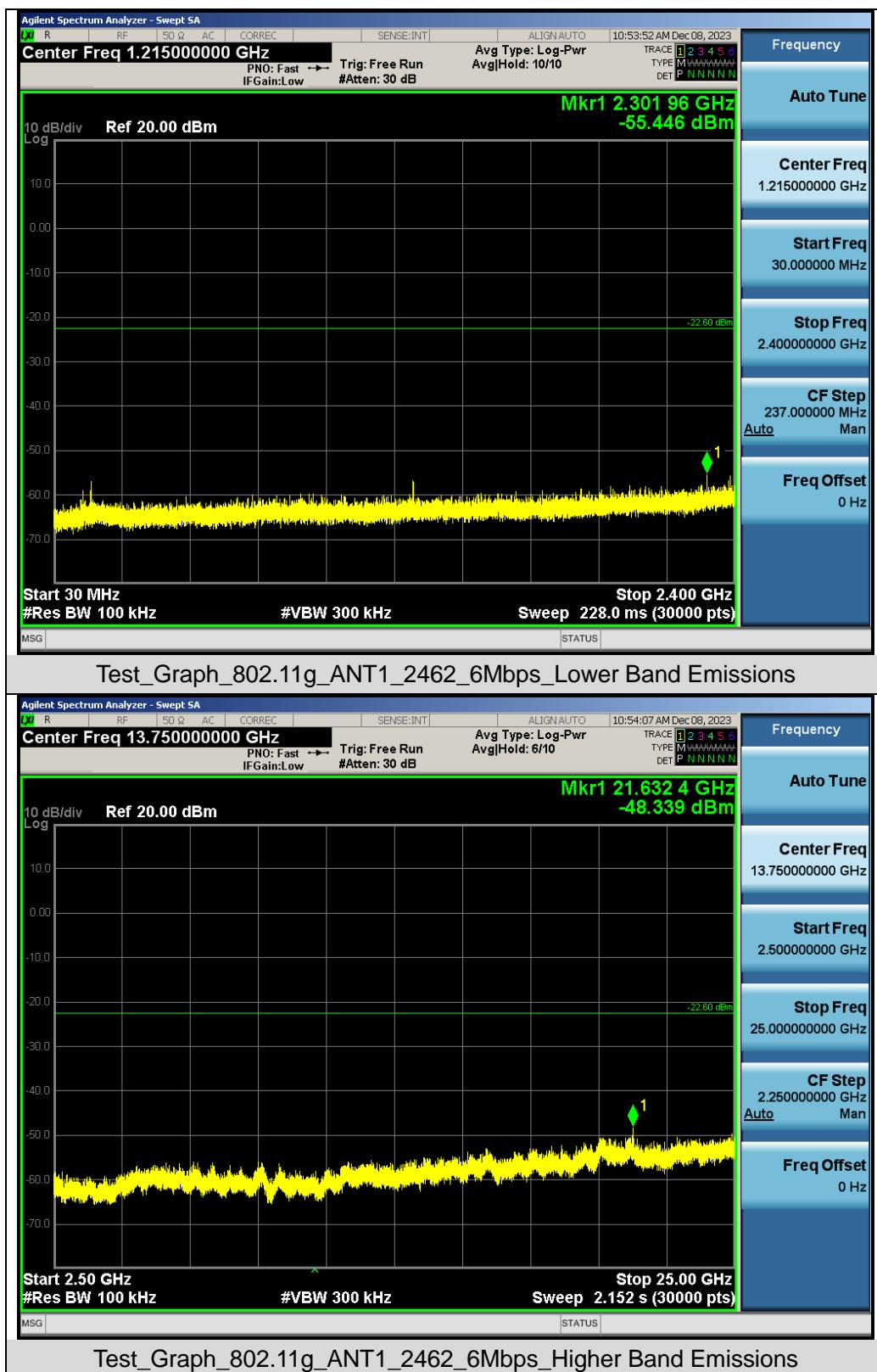


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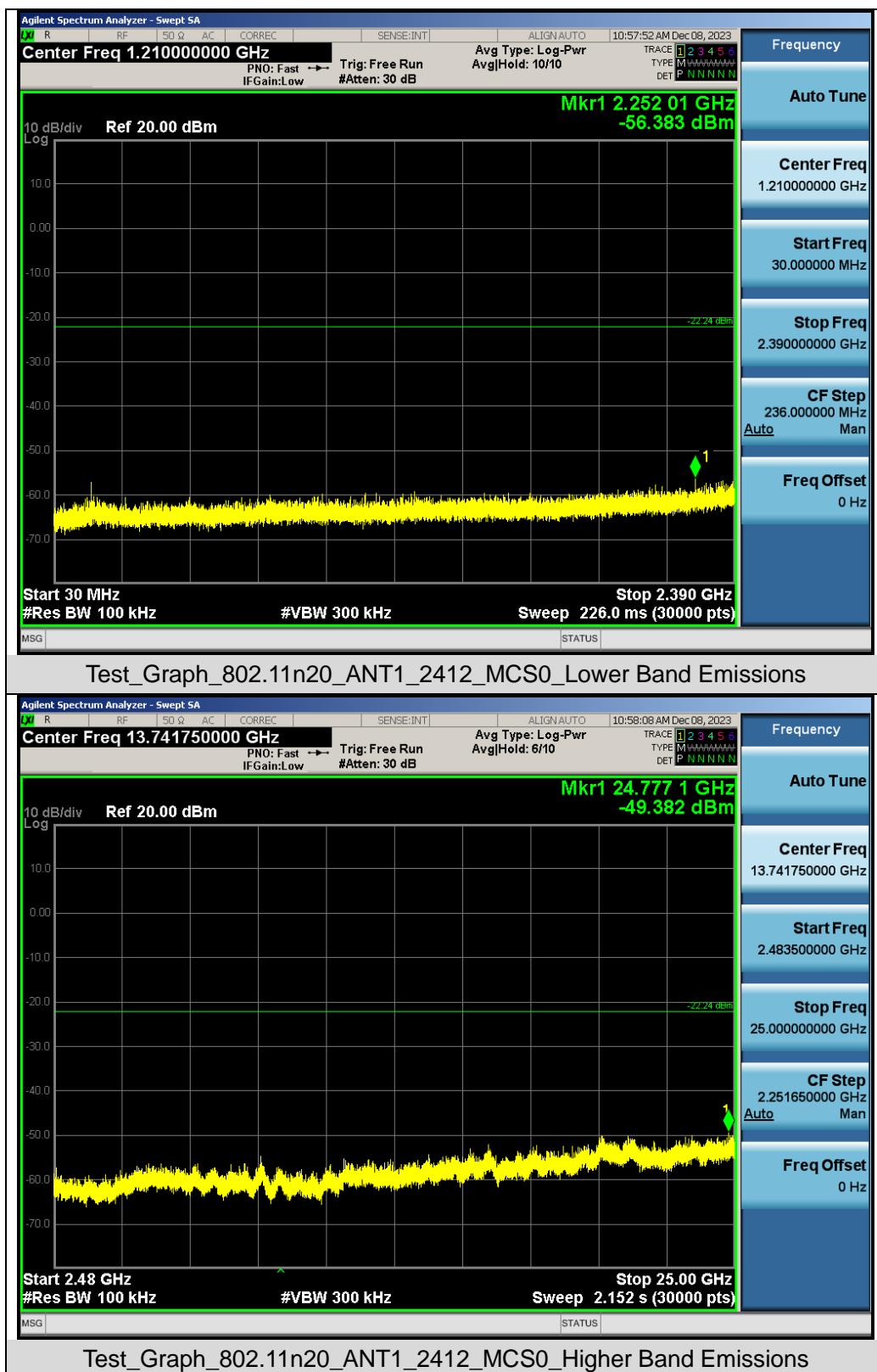


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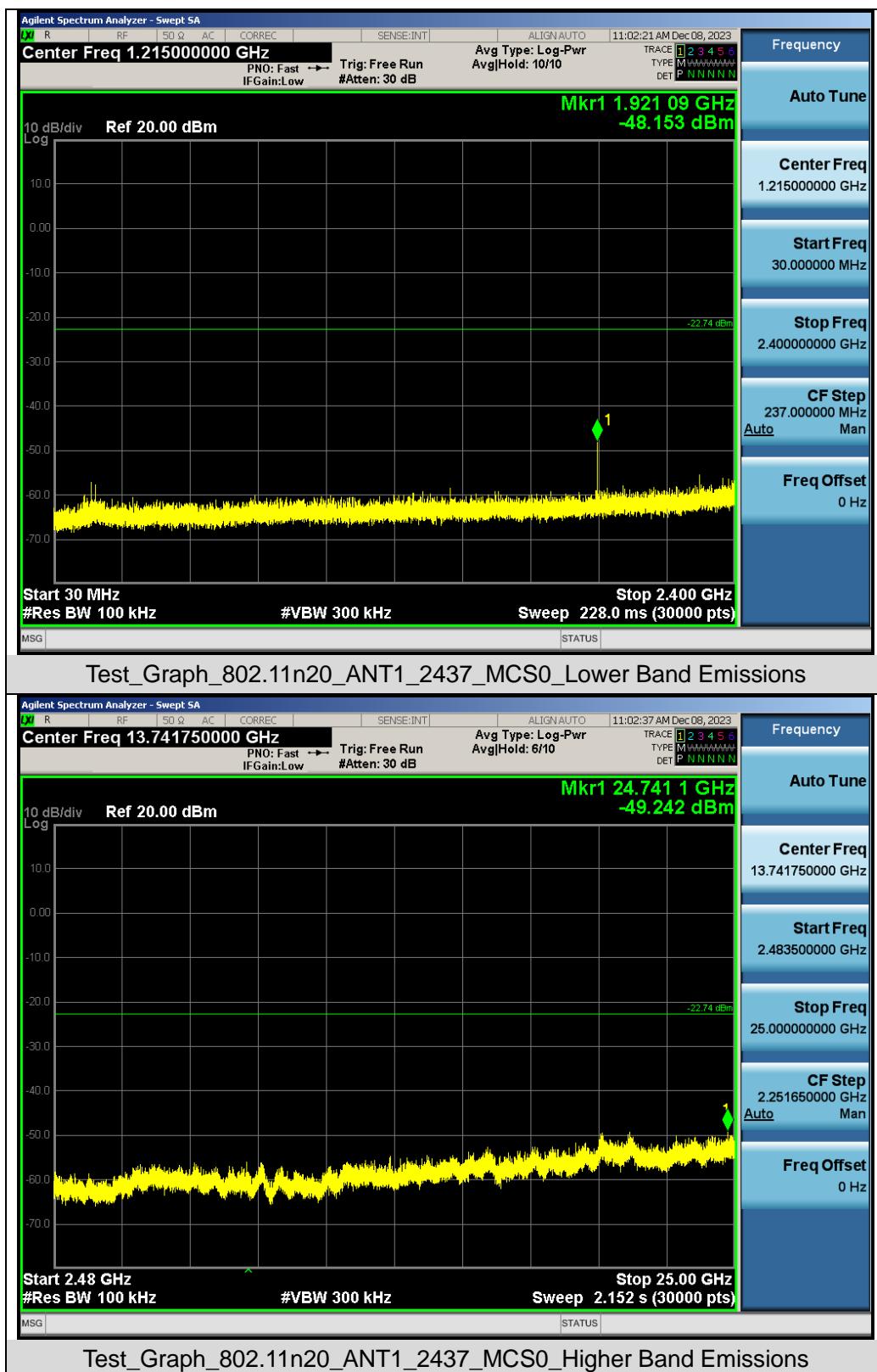


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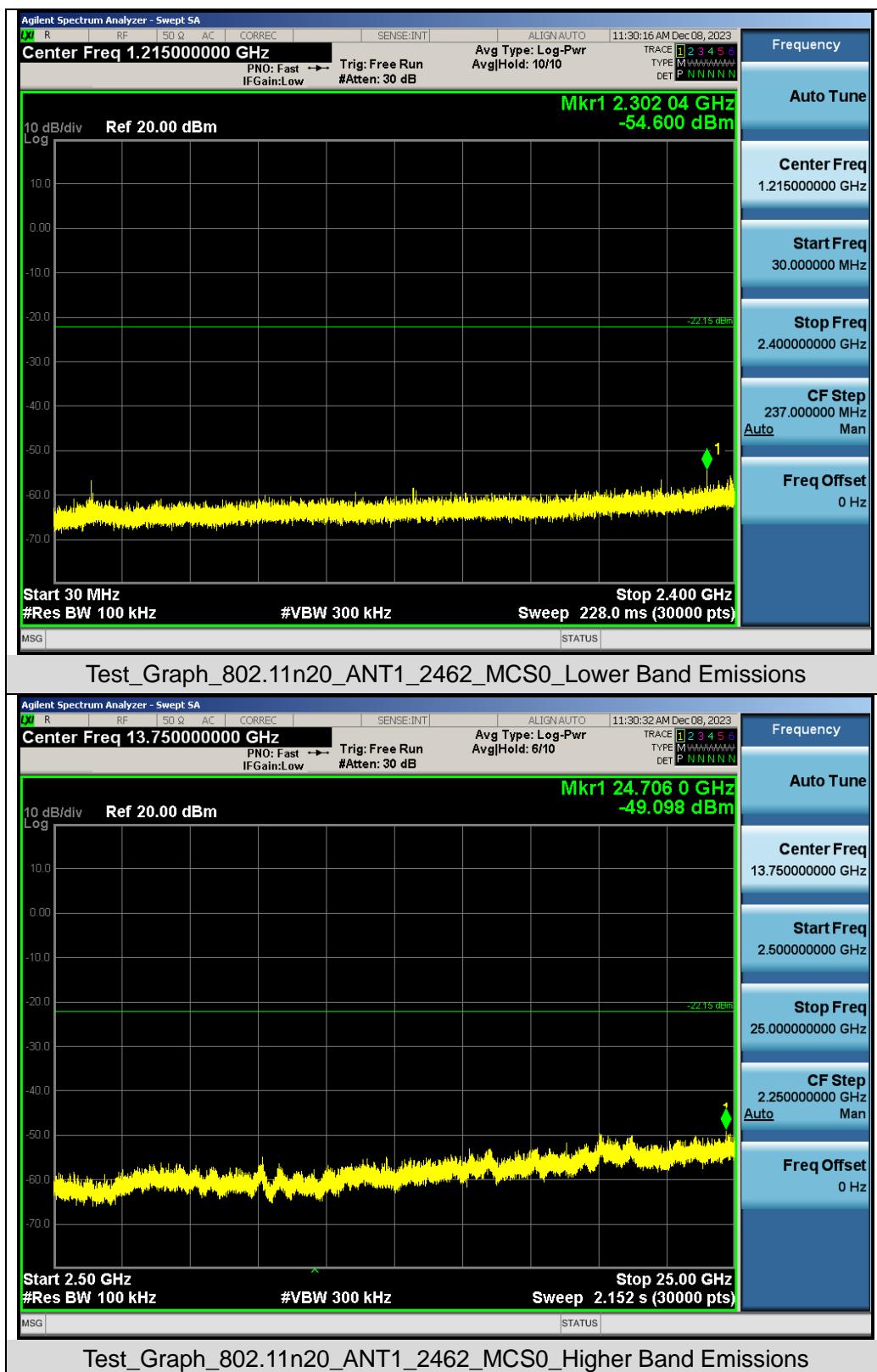


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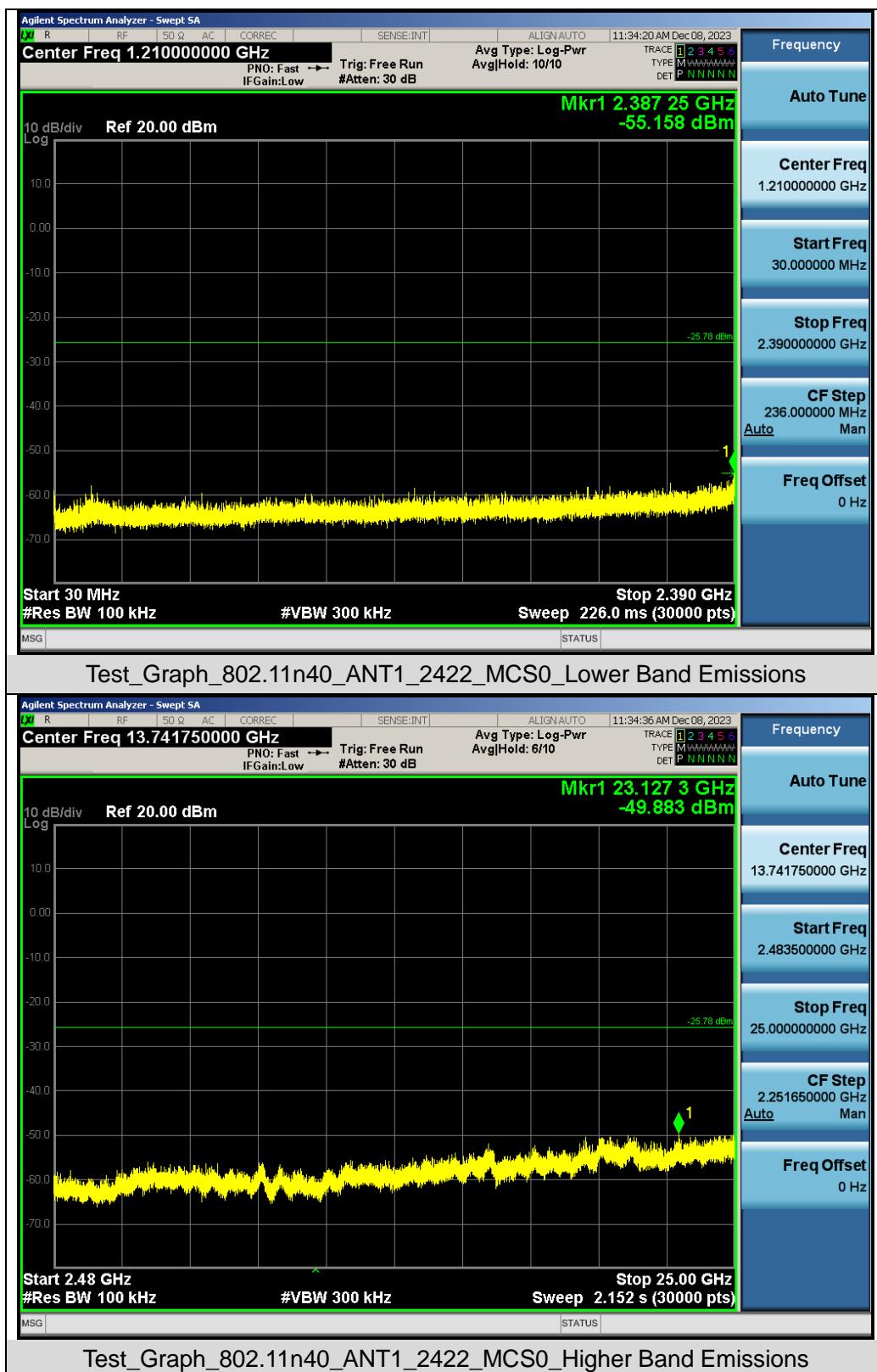


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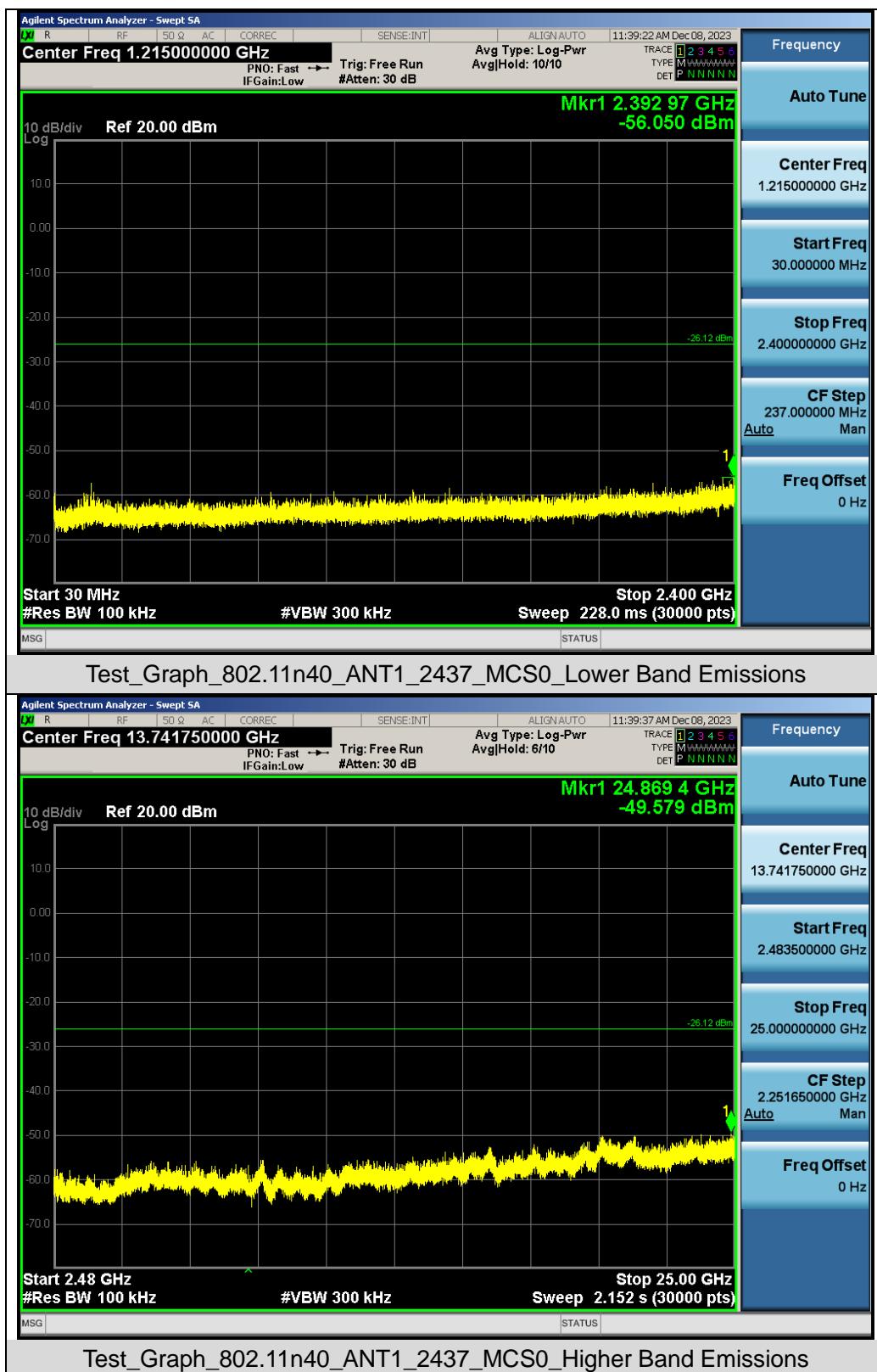


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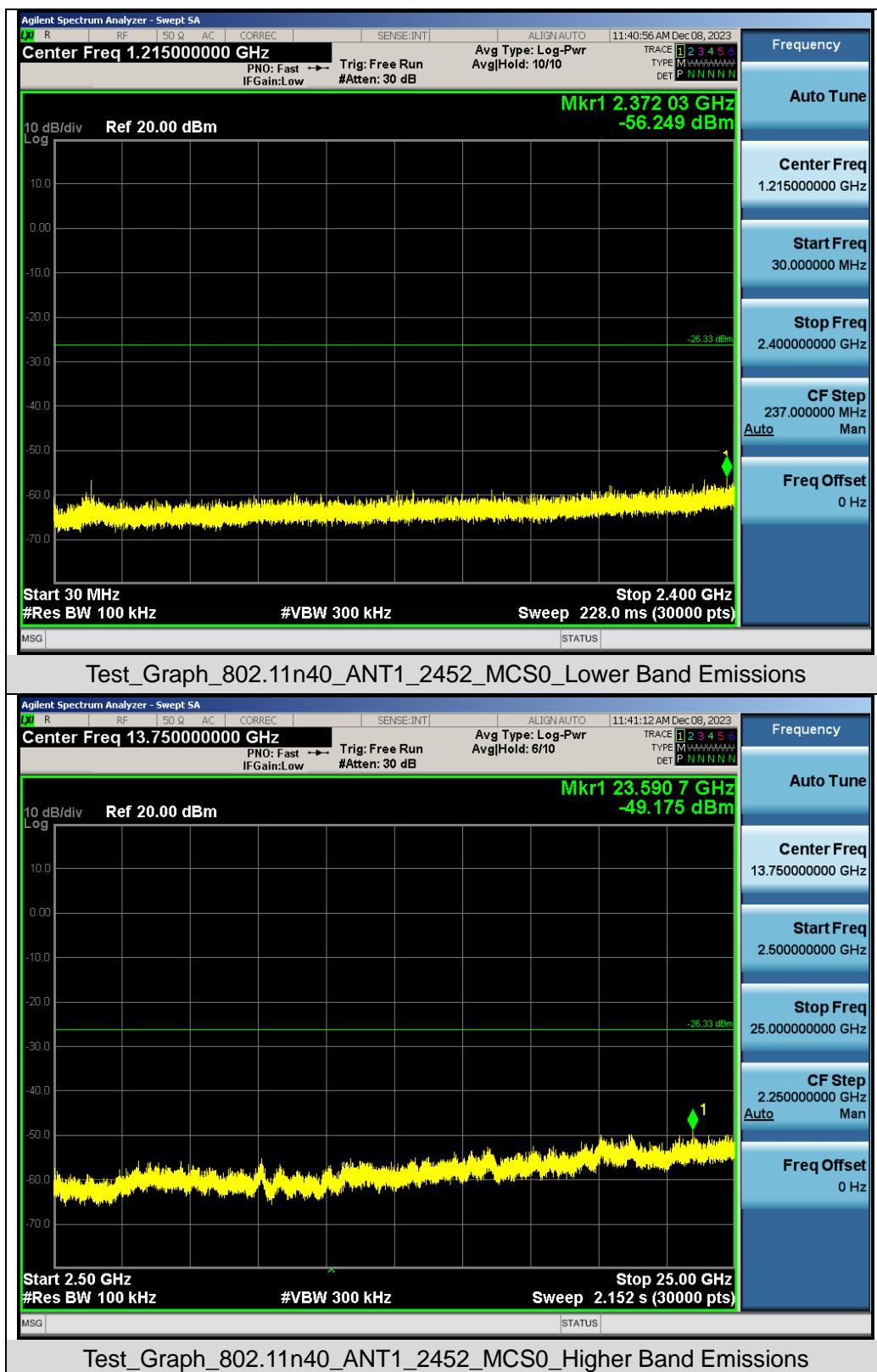


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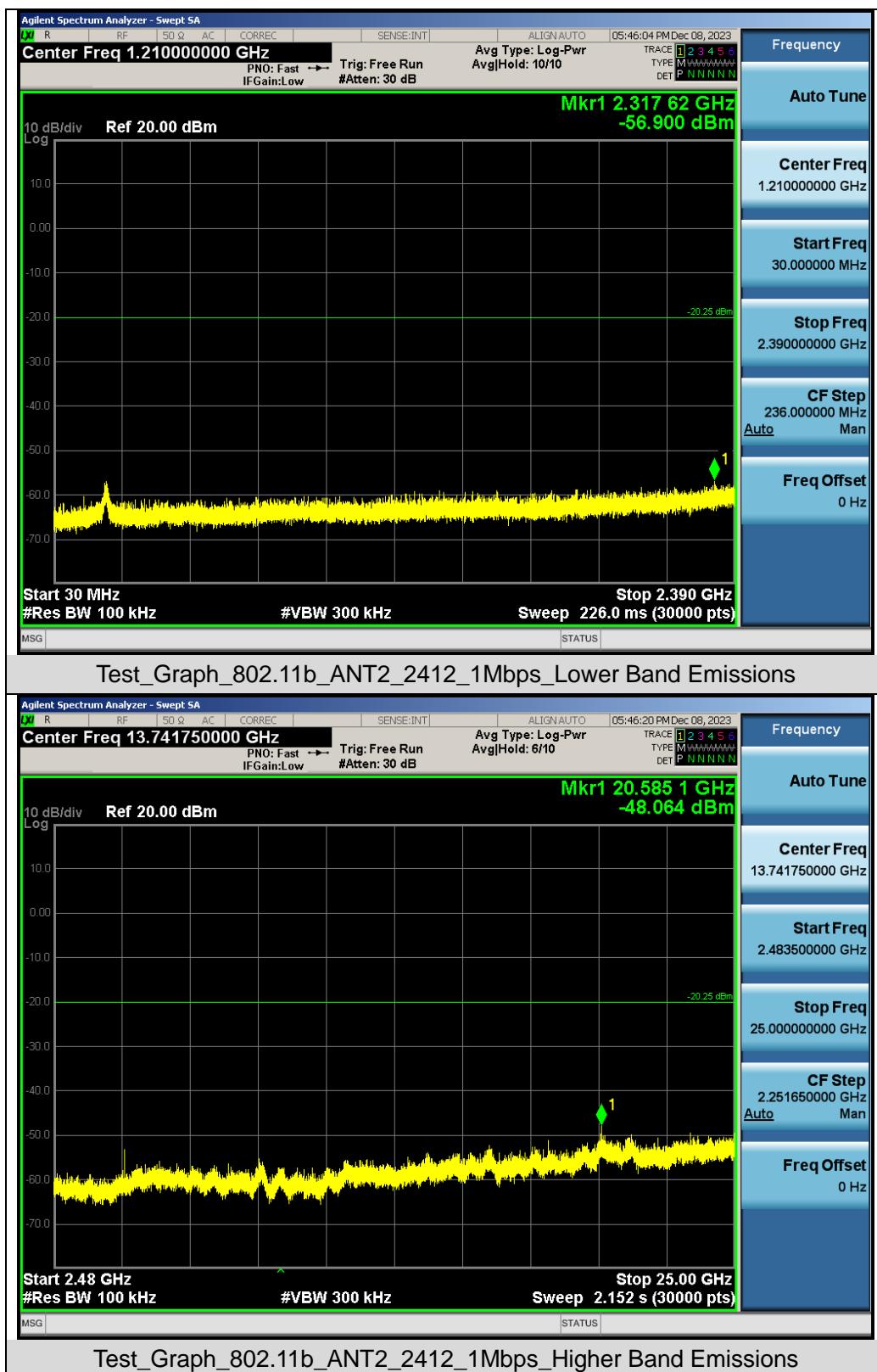


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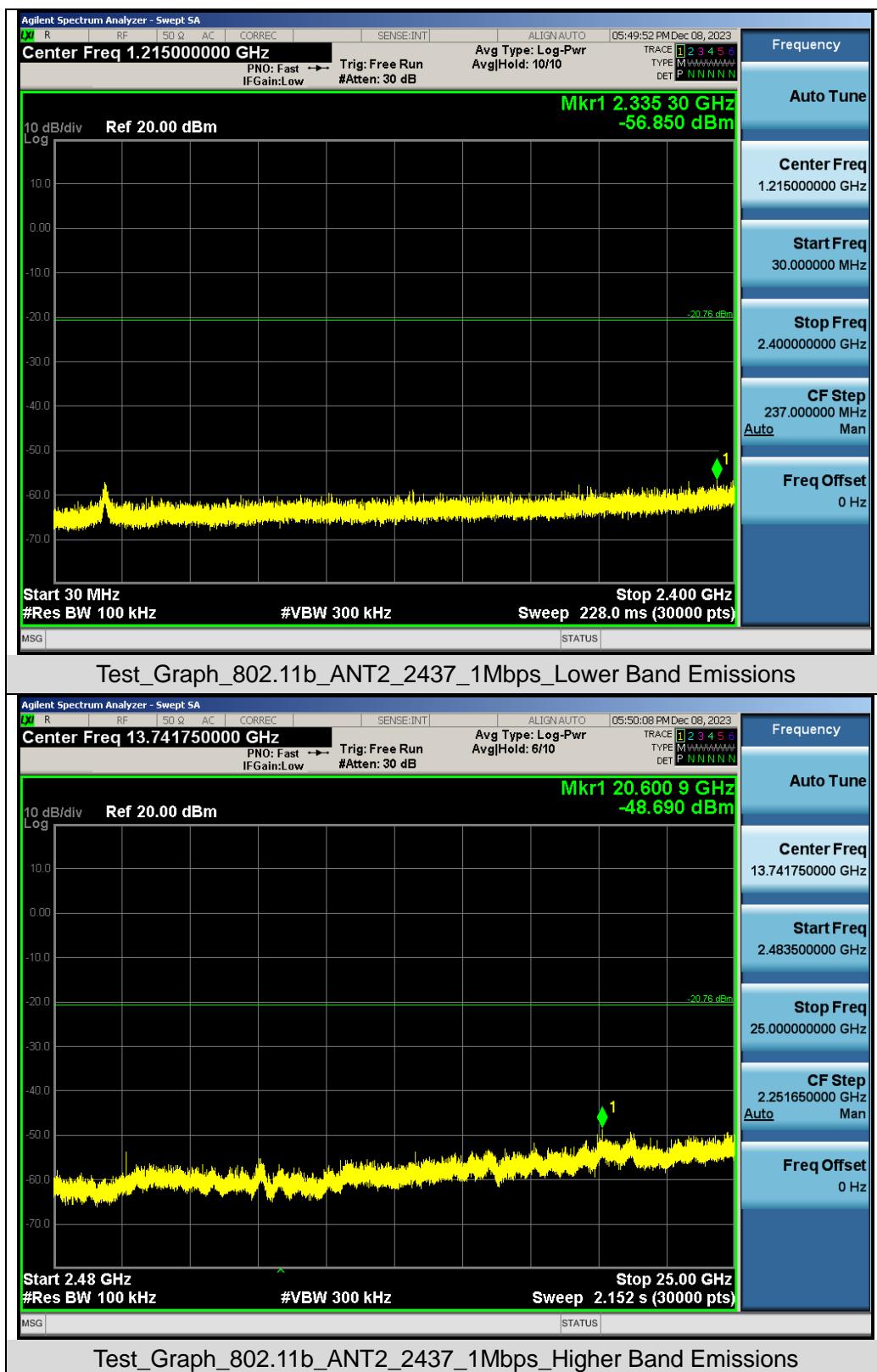


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