

# FCC Test Report

Report No.: AGC01519220204FE05

**FCC ID** : 2AZWZ-A6

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : SMART PAN-TILT CAMERA

**BRAND NAME** : KAWA

**MODEL NAME** : A6, A5, A7, A8, A9, A10, A11, A12, A13, A15, A16, A17, A18, A19, A20

**APPLICANT** : KAWA ELECTRONICS COMPANY LIMITED

**DATE OF ISSUE** : Mar. 15, 2022

**STANDARD(S)** : FCC Part 15.247

**TEST PROCEDURE(S)**

**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	/	Mar. 15, 2022	Valid	Initial Release

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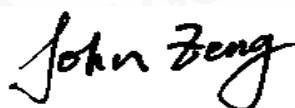
## 1. VERIFICATION OF CONFORMITY

<b>Applicant</b>	KAWA ELECTRONICS COMPANY LIMITED
<b>Address</b>	FLAT A 21/F CHEUNG LEE IND BLDG 9 CHEUNG LEE ST CHAI WAN HONG KONG, China
<b>Manufacturer</b>	KAWA ELECTRONICS COMPANY LIMITED
<b>Address</b>	FLAT A 21/F CHEUNG LEE IND BLDG 9 CHEUNG LEE ST CHAI WAN HONG KONG, China
<b>Factory</b>	Dongguan Apical Electronics Co., Ltd
<b>Address</b>	6#, Shunxing 5 Rd, No.2 Industrial zone, Dajingtou, Dalang Town, Dongguan City
<b>Product Designation</b>	SMART PAN-TILT CAMERA
<b>Brand Name</b>	KAWA
<b>Test Model</b>	A6
<b>Series Model</b>	A5, A7, A8, A9, A10, A11, A12, A13, A15, A16, A17, A18, A19, A20
<b>Declaration of Difference</b>	All the same except for the shell
<b>Date of test</b>	Feb. 17, 2022 to Mar. 11, 2022
<b>Deviation</b>	No any deviation from the test method
<b>Condition of Test Sample</b>	Normal
<b>Test Result</b>	Pass
<b>Report Template</b>	AGCRT-US-BGN/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Prepared By



John Zeng  
(Project Engineer)

Mar. 15, 2022

Reviewed By



Calvin Liu  
(Reviewer)

Mar. 15, 2022

Approved By



Max Zhang  
(Authorized Officer)

Mar. 15, 2022

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

The EUT is designed as "SMART PAN-TILT CAMERA". It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

<b>Operation Frequency</b>	2.412GHz~2.462GHz
<b>Output Power (Average)</b>	IEEE 802.11b:15.77dBm; IEEE 802.11g:13.07dBm; IEEE 802.11n(20):12.64dBm;
<b>Output Power (Peak)</b>	IEEE 802.11b:18.60dBm; IEEE 802.11g:20.70dBm; IEEE 802.11n(20):20.59dBm;
<b>Modulation</b>	DSSS(DBPSK/DQPSK/CCK); OFDM(BPSK/QPSK/16-QAM/64-QAM)
<b>Number of channels</b>	11
<b>Hardware Version</b>	CJ1013-MAIN-01A
<b>Software Version</b>	V1.0.0.0-2201081449
<b>Antenna Designation</b>	Integral antenna (Comply with requirements of the FCC part 15.203)
<b>Antenna Gain</b>	2.3dBi
<b>Power Supply</b>	DC 5V by adapter

### 2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	1	2412 MHZ
	2	2417 MHZ
	3	2422 MHZ
	4	2427 MHZ
	5	2432 MHZ
	6	2437 MHZ
	7	2442 MHZ
	8	2447 MHZ
	9	2452 MHZ
	10	2457 MHZ
	11	2462 MHZ

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11.

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### 2.3. IEEE 802.11N MODULATION SCHEME

MCS Index	Nss	Modulation	R	NBPSC	NCBPS		NDBPS		Data rate(Mbps)	
					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

### 2.4. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AZWZ-A6** filing to comply with the FCC Part 15 requirements.

### 2.5. TEST METHODOLOGY

KDB 558074 D01 15.247 Meas Guidance v05: Guidance for compliance measurements on Digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules

ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices

### 2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

### 2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

### 2.8. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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### 3. 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	$U_c = \pm 3.8 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.4 \text{ dB}$
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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## 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel transmitting (TX)
2	Middle channel transmitting (TX)
3	High channel transmitting (TX)

## Note:

Transmit by 802.11b with Data rate (1/2/5.5/11)

Transmit by 802.11g with Data rate (6/9/12/18/24/36/48/54)

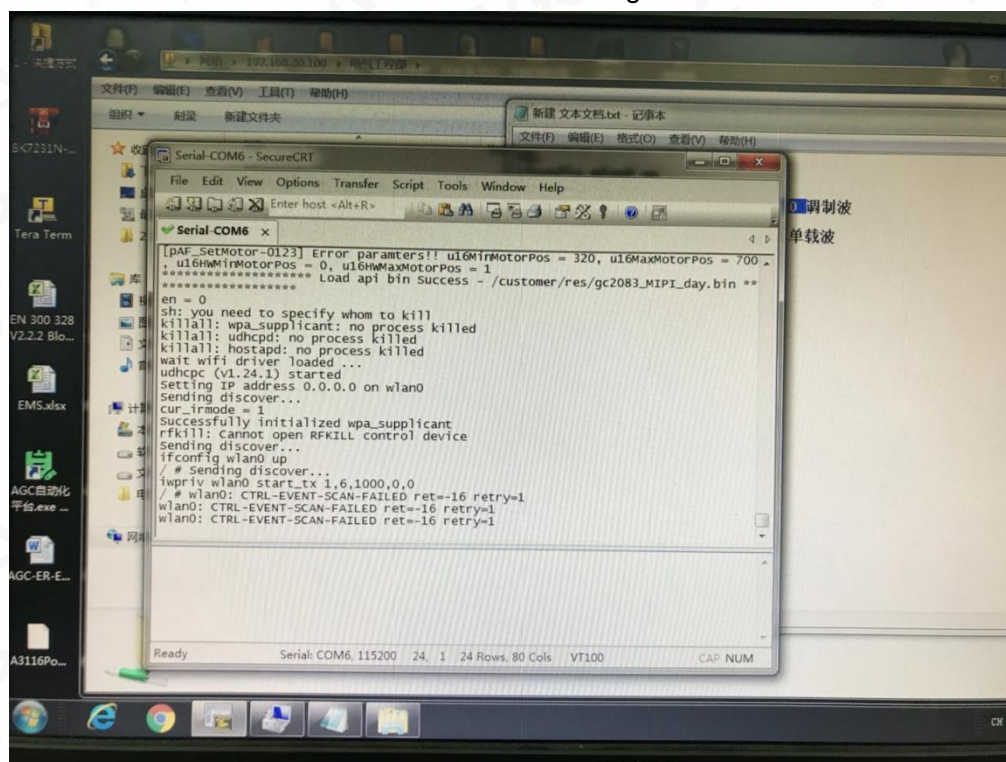
Transmit by 802.11n (20MHz) with Data rate (6.5/13/19.5/26/39/52/58.5/65)

The test channel for 20MHZ bandwidth system is channel 1, 6 and 11.

## Note:

1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the EUT is operating at its maximum duty cycle>or equal 98%
2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.

## Software Setting



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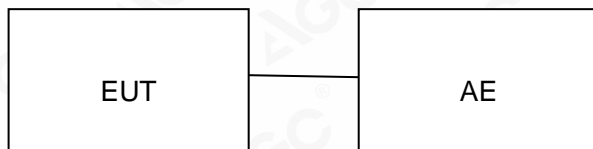
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## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF EUT SYSTEM

Configure:



### 5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	SMART PAN-TILT CAMERA	A6	2AZWZ-A6	EUT
2	Adapter	TEKA-UCA10UN	Input: AC 100~240, 50/60Hz, 0.2A Output: DC 5V, 1.0A	Accessory

### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Output Power	Compliant
§15.247	6 dB Bandwidth	Compliant
§15.247	Conducted Spurious Emission	Compliant
§15.247	Maximum Conducted Output Power Spectral Density	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant

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## 6. TEST FACILITY

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
<b>Designation Number</b>	CN1259
<b>FCC Test Firm Registration Number</b>	975832
<b>A2LA Cert. No.</b>	5054.02
<b>Description</b>	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

### TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESPI	101206	May.11, 2021	May.10, 2022
Artificial power network	R&S	ESH2-Z5	100086	Jun. 09, 2021	Jun. 08, 2022
Test Software	FARA	EZ-EMC(Ver. AGC-CON03A1)	N/A	N/A	N/A

### TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESCI	100034	Sep. 06, 2021	Sep. 05, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Nov. 17, 2021	Nov. 16, 2022
2.4GHz Fliter	Micro-tronics	087	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	Weinachel Corp	58-30-33	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn Antenna	SCHWARZBEC K	BBHA9170	768	Oct. 31, 2021	Oct. 30, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
preamplifier	ChengYi	EMC184045SE	980508	Oct. 29, 2021	Oct. 28, 2023
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00154520	Sep. 06, 2021	Sep. 05, 2023
Preamplifier Assembly	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
Wideband Antenna	SCHWARZBEC K	VULB9168	VULB9168-494	Jan. 08, 2021	Jan. 07, 2023
Test Software	FARA	EZ-EMC(Ver.RA-03 A)	N/A	N/A	N/A

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## 7. OUTPUT POWER

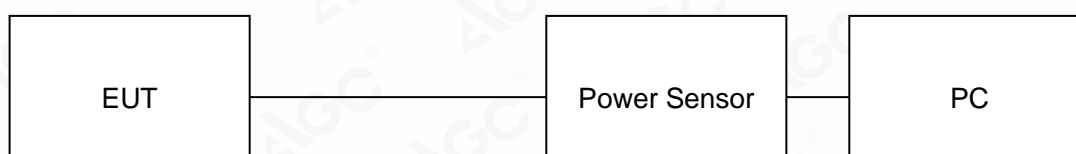
### 7.1. MEASUREMENT PROCEDURE

For average power test:

1. Connect EUT RF output port to power sensor through an RF attenuator.
2. Connect the power sensor to the PC.
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Record the maximum power from the software.

**Note :** The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

### 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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### 7.3. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
802.11b	2412	14.79	17.72	≤30	Pass
	2437	14.70	17.61	≤30	Pass
	2462	15.77	18.60	≤30	Pass
802.11g	2412	12.35	19.74	≤30	Pass
	2437	11.88	19.43	≤30	Pass
	2462	13.07	20.70	≤30	Pass
802.11n20	2412	11.96	19.92	≤30	Pass
	2437	11.67	19.49	≤30	Pass
	2462	12.64	20.59	≤30	Pass

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## 8. BANDWIDTH

### 8.1. MEASUREMENT PROCEDURE

6dB bandwidth:

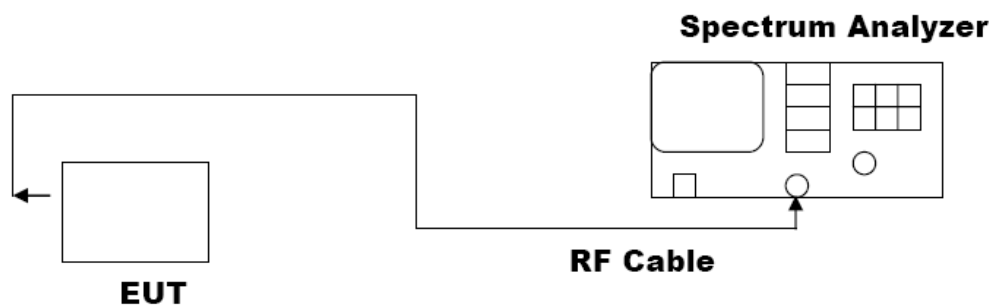
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW $\geq$ 3 $\times$ RBW.
4. Set SPA Trace 1 Max hold, then View.

Occupied bandwidth:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel  
The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
4. Set SPA Trace 1 Max hold, then View.

**Note:** The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

### 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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### 8.3. LIMITS AND MEASUREMENT RESULTS

Test Data of Occupied Bandwidth and DTS Bandwidth					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11b	2412	12.903	10.042	≥0.5	Pass
	2437	12.916	10.053	≥0.5	Pass
	2462	12.911	10.052	≥0.5	Pass
802.11g	2412	16.391	16.031	≥0.5	Pass
	2437	16.378	16.282	≥0.5	Pass
	2462	16.385	16.037	≥0.5	Pass
802.11n20	2412	17.362	16.539	≥0.5	Pass
	2437	17.343	16.305	≥0.5	Pass
	2462	17.359	16.535	≥0.5	Pass

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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

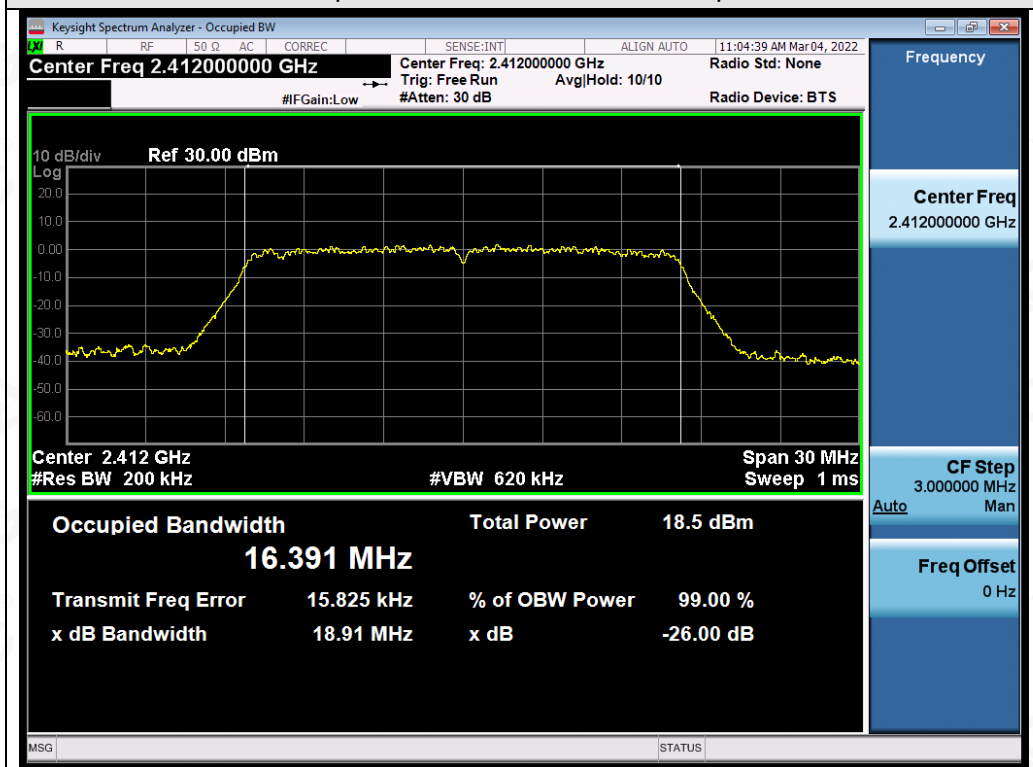
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Test\_Graph\_802.11b\_ANT1\_2462\_1Mbps\_OBW

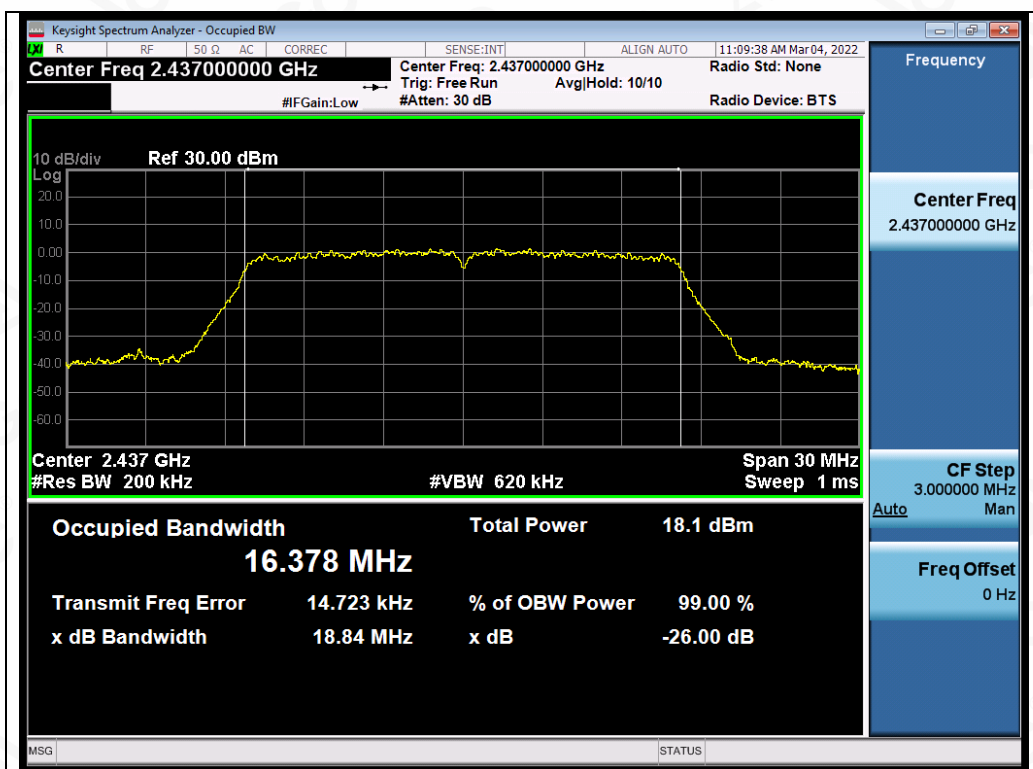


Test\_Graph\_802.11g\_ANT1\_2412\_6Mbps\_OBW

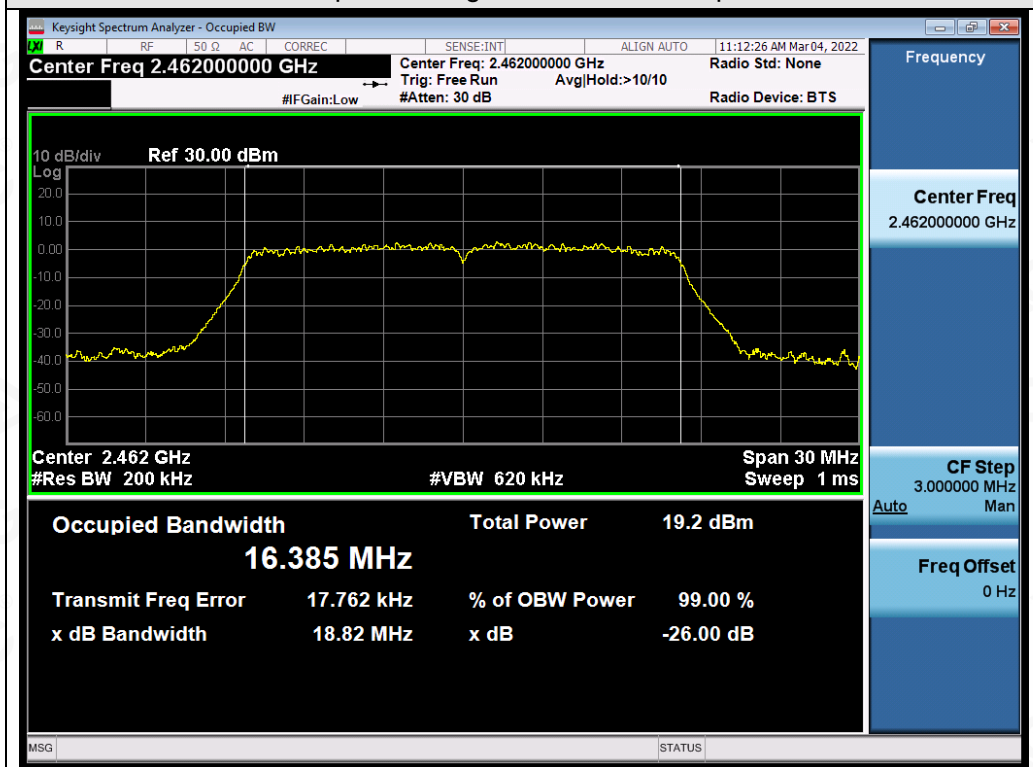
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Test\_Graph\_802.11g\_ANT1\_2437\_6Mbps\_OBW

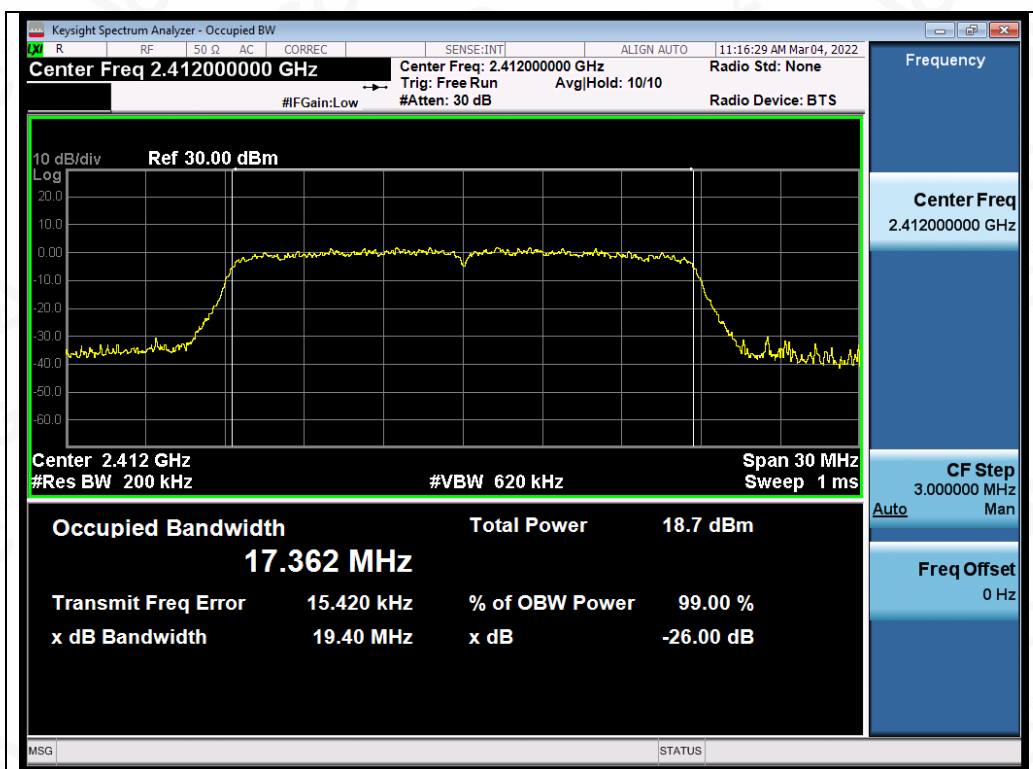


Test\_Graph\_802.11g\_ANT1\_2462\_6Mbps\_OBW

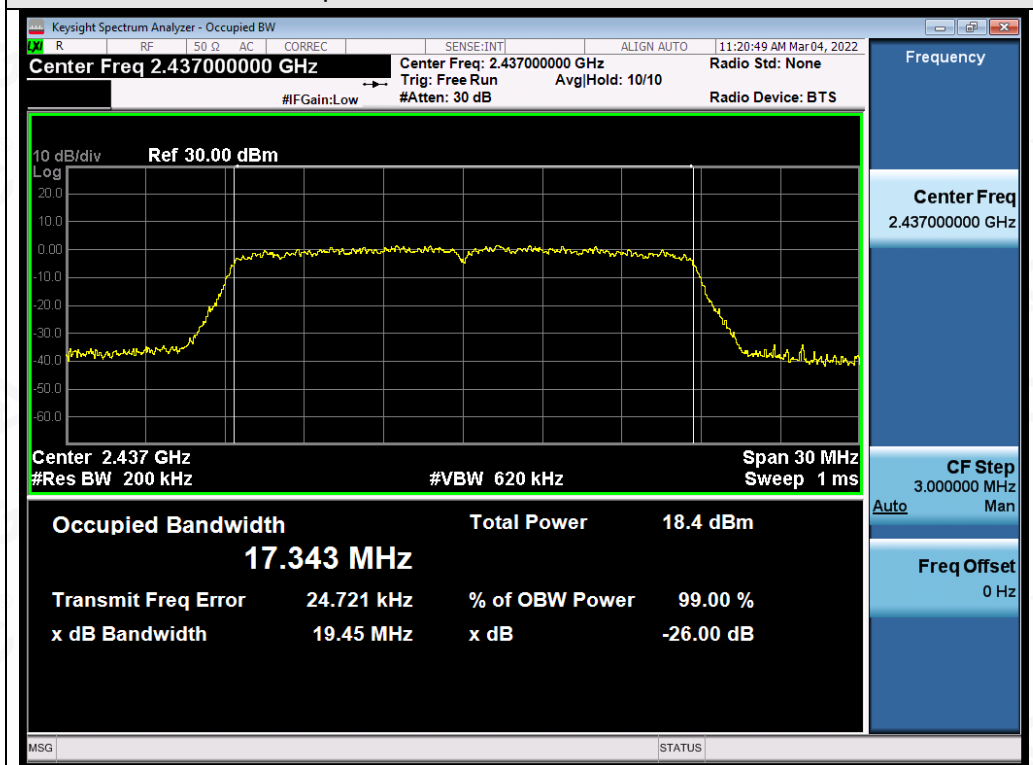
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Test\_Graph\_802.11n20\_ANT1\_2412\_MCS0\_OBW

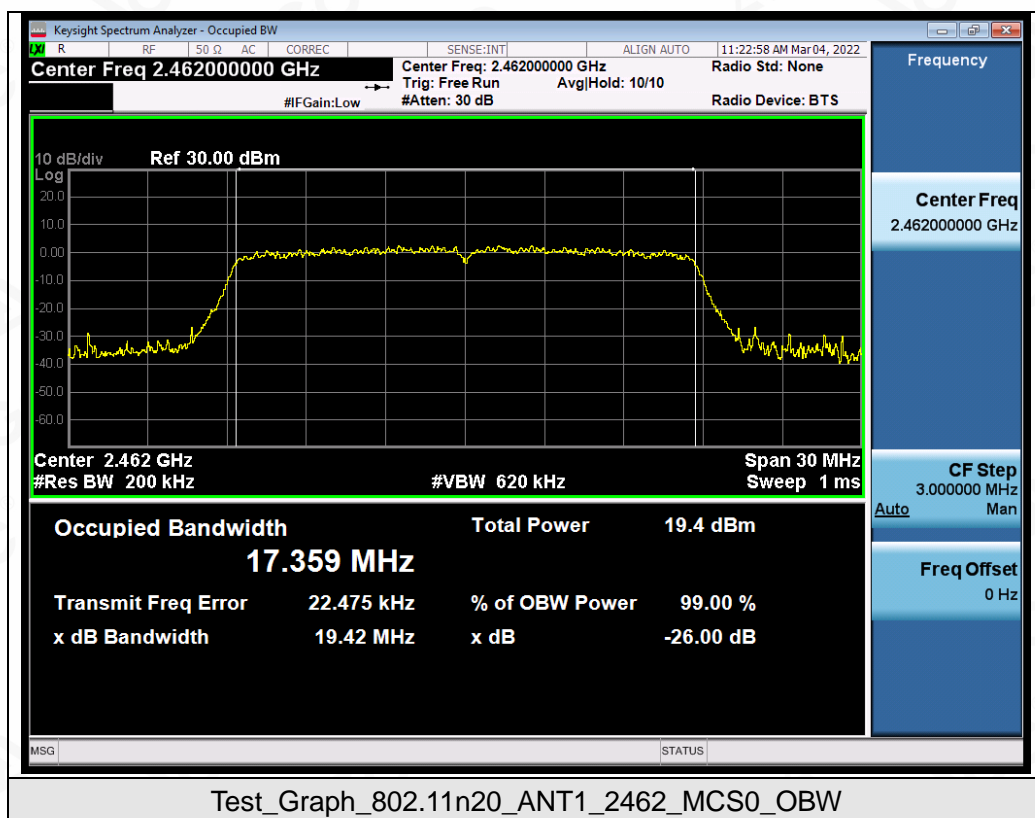


Test\_Graph\_802.11n20\_ANT1\_2437\_MCS0\_OBW

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### Test Graphs of DTS Bandwidth



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



### Test\_Graph\_802.11b\_ANT1\_2437\_1Mbps\_DTSBW

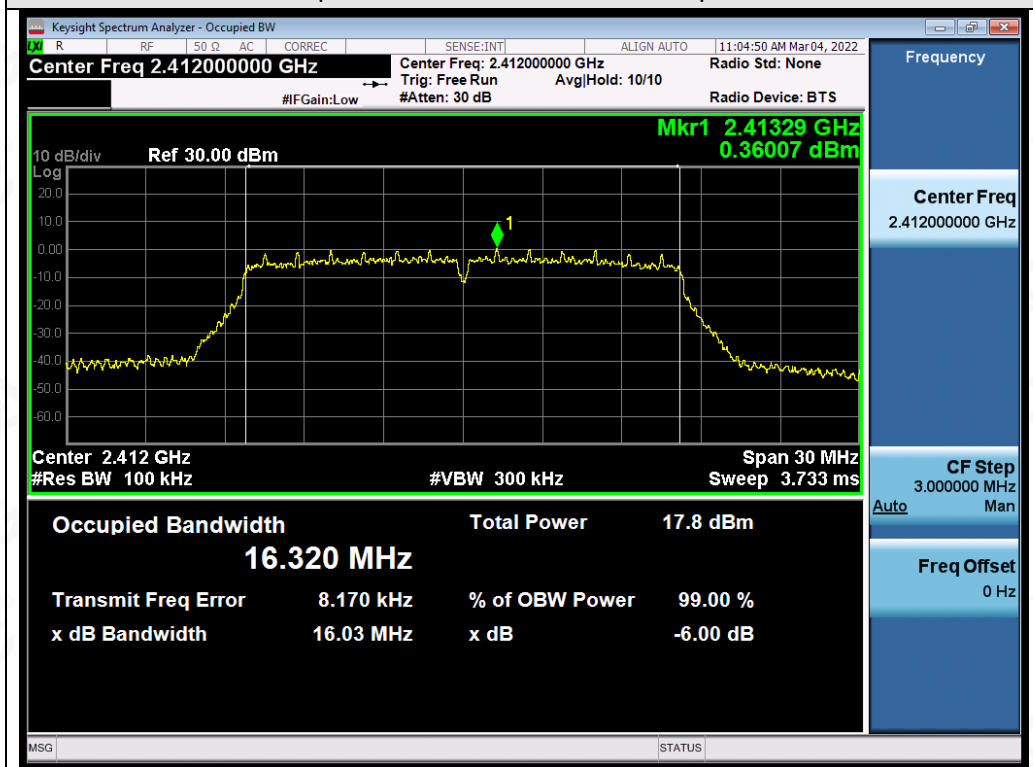
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Test\_Graph\_802.11b\_ANT1\_2462\_1Mbps\_DTSBW

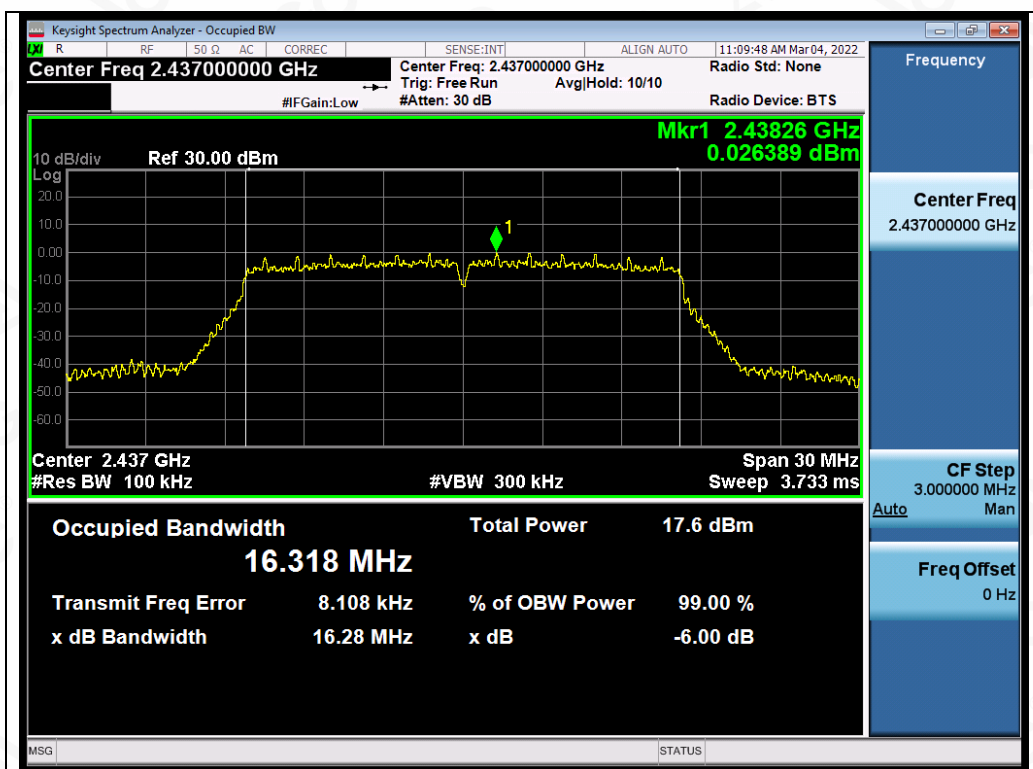


Test\_Graph\_802.11g\_ANT1\_2412\_6Mbps\_DTSBW

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Test\_Graph\_802.11g\_ANT1\_2437\_6Mbps\_DTSBW

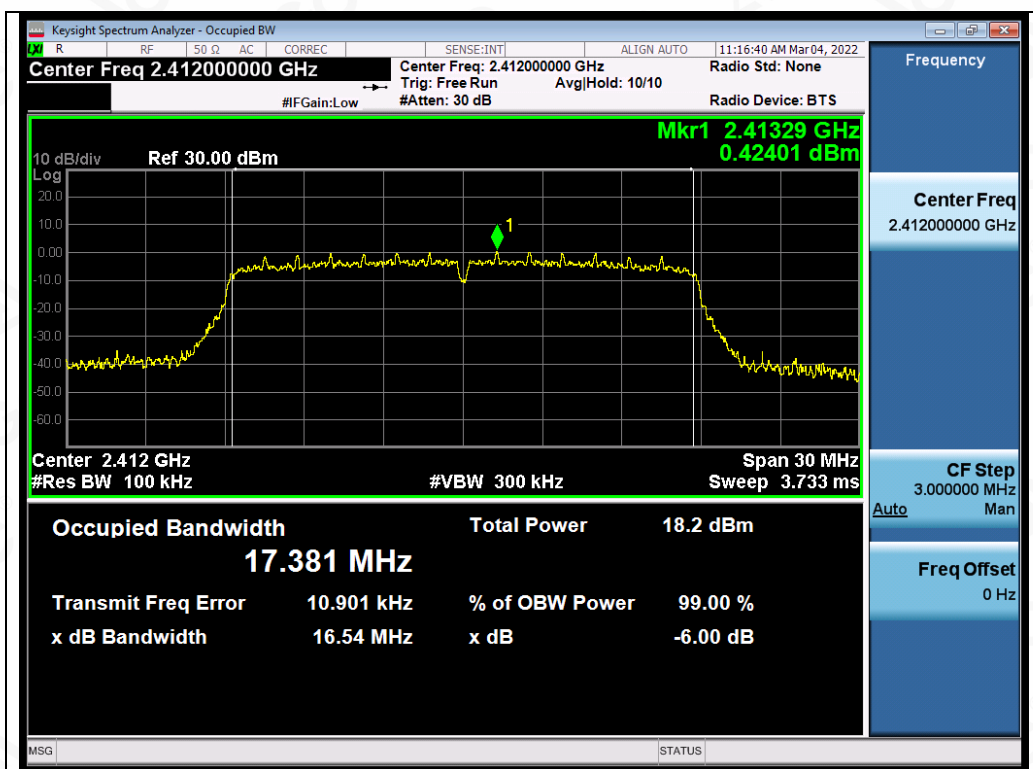


Test\_Graph\_802.11g\_ANT1\_2462\_6Mbps\_DTSBW

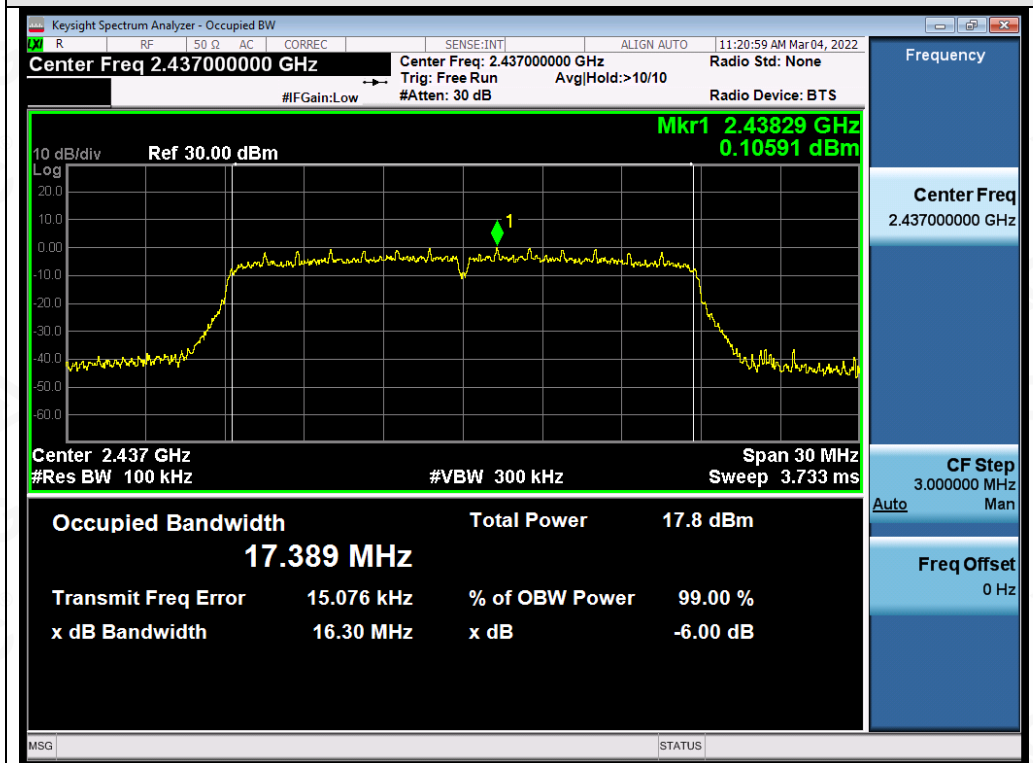
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Test\_Graph\_802.11n20\_ANT1\_2412\_MCS0\_DTSBW



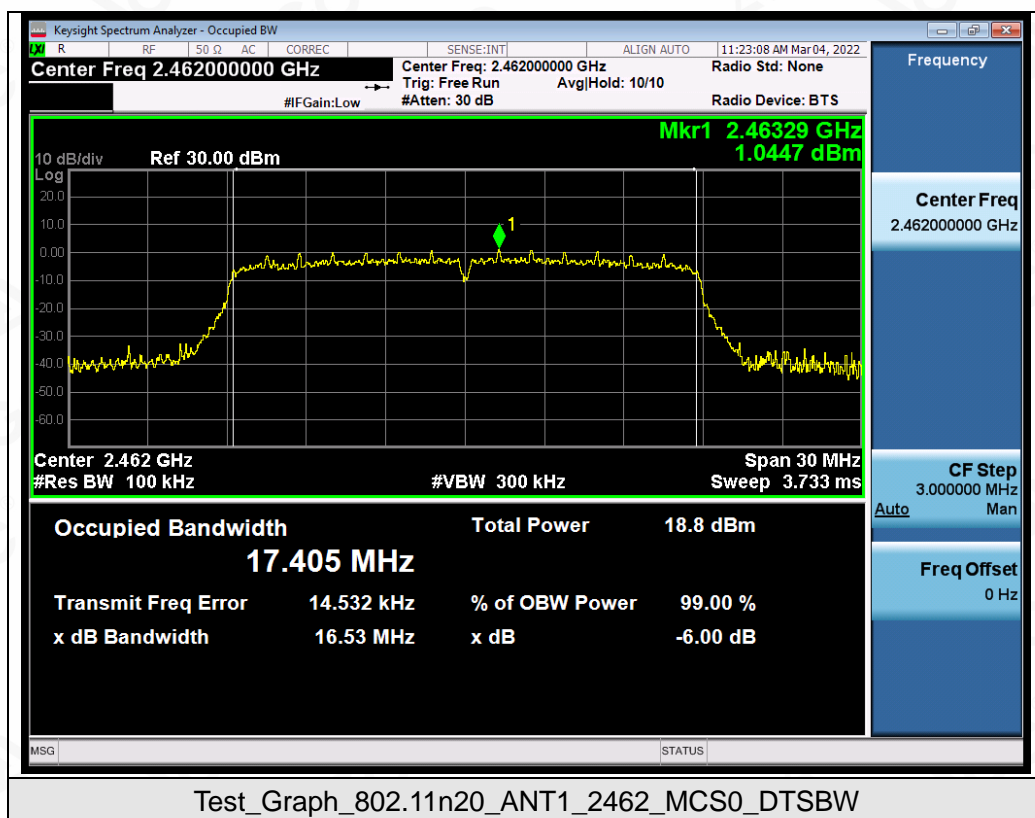
Test\_Graph\_802.11n20\_ANT1\_2437\_MCS0\_DTSBW

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## 9. CONDUCTED SPURIOUS EMISSION

### 9.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Trace 1 Max hold, then View.

**Note:** The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW > RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW > RBW) are conform to the requirement.

### 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

### 9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

### 9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS
	At least -20dBc than the limit Specified on the TOP Channel	PASS

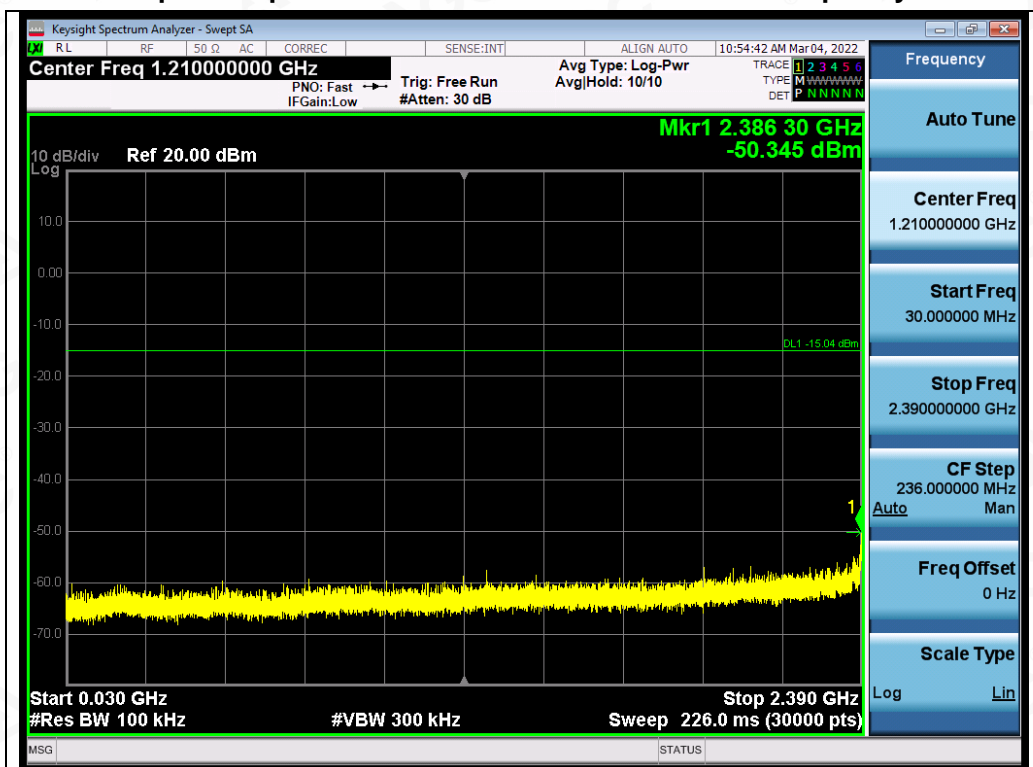
Note: The limits reference level is according to the test plot of -6dB bandwidth.

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



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

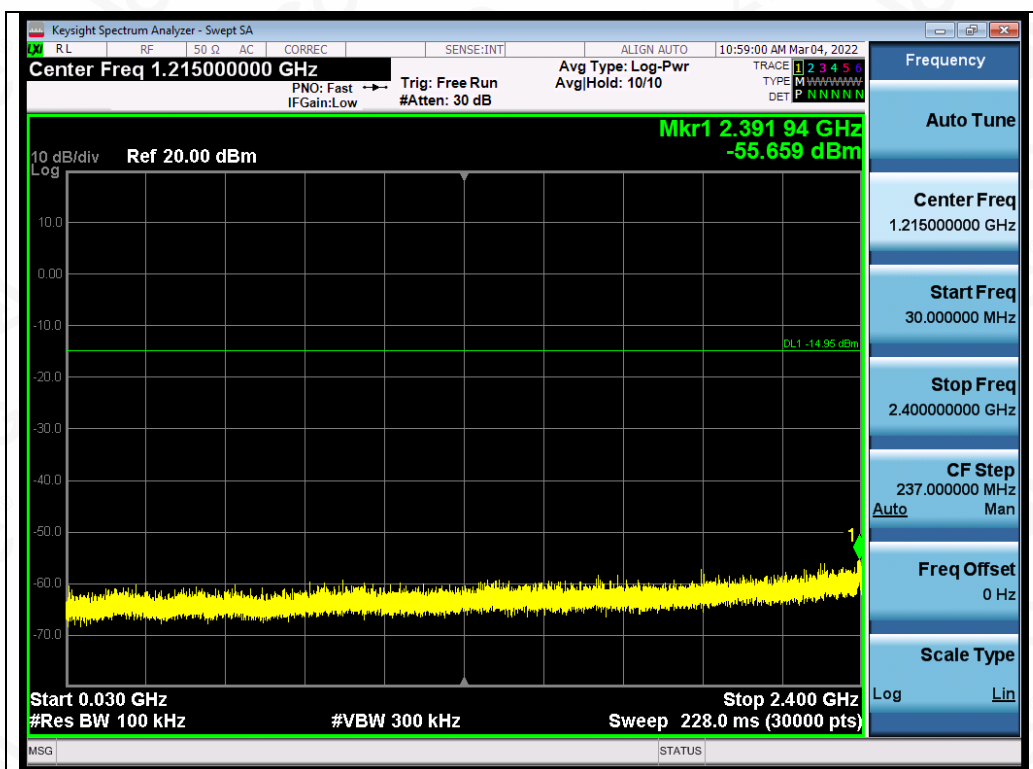


### Test\_Graph\_802.11b\_ANT1\_2412\_1Mbps\_Higher Band Emissions

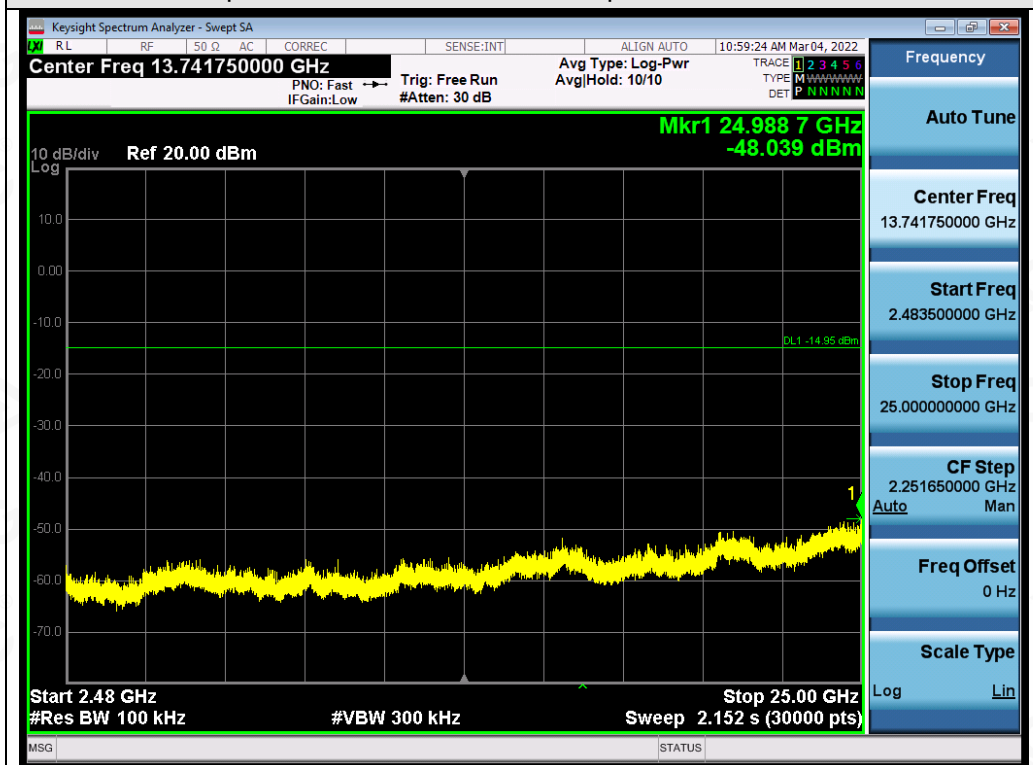
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Test\_Graph\_802.11b\_ANT1\_2437\_1Mbps\_Lower Band Emissions



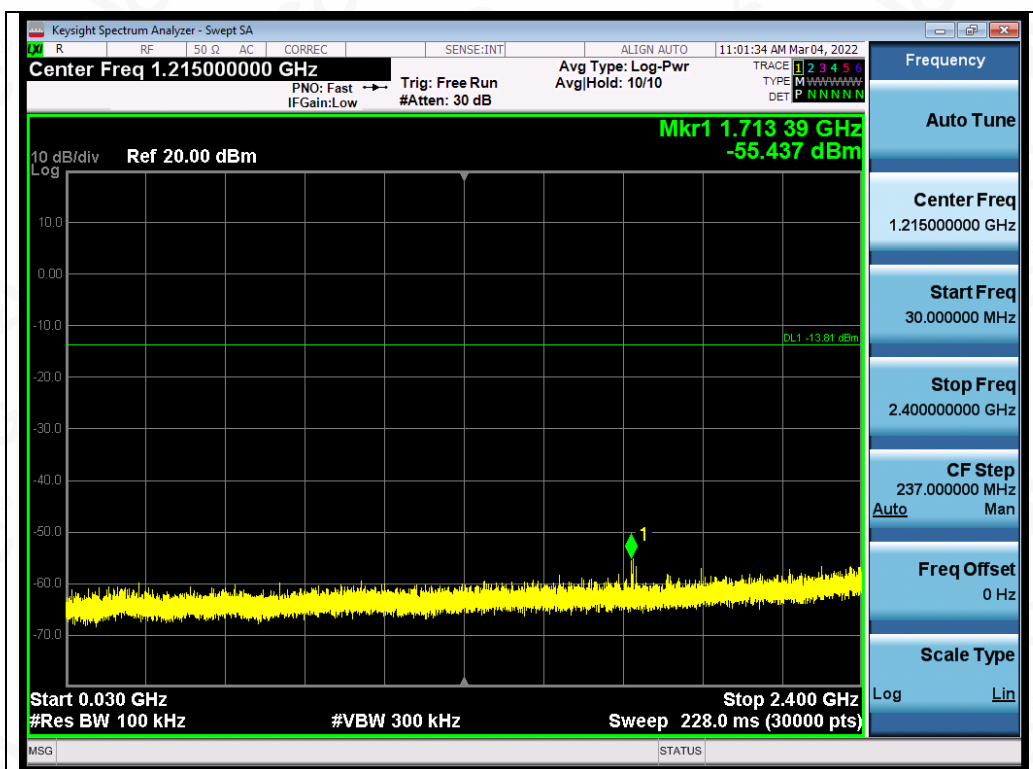
Test\_Graph\_802.11b\_ANT1\_2437\_1Mbps\_Higher Band Emissions

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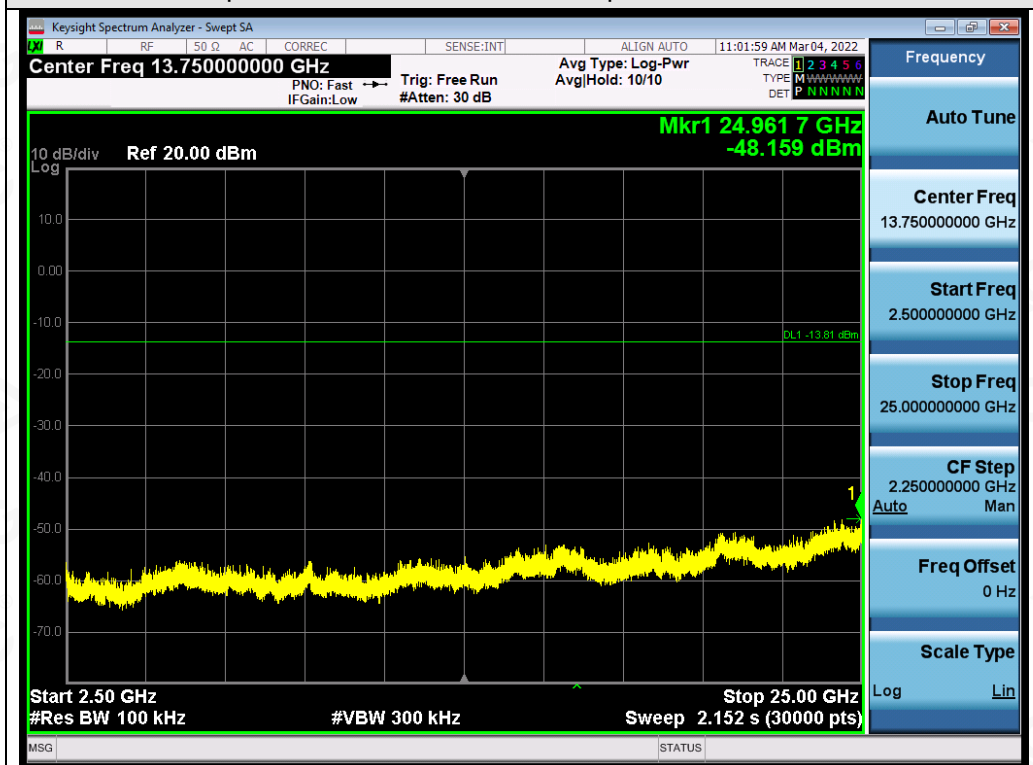
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Test\_Graph\_802.11b\_ANT1\_2462\_1Mbps\_Lower Band Emissions

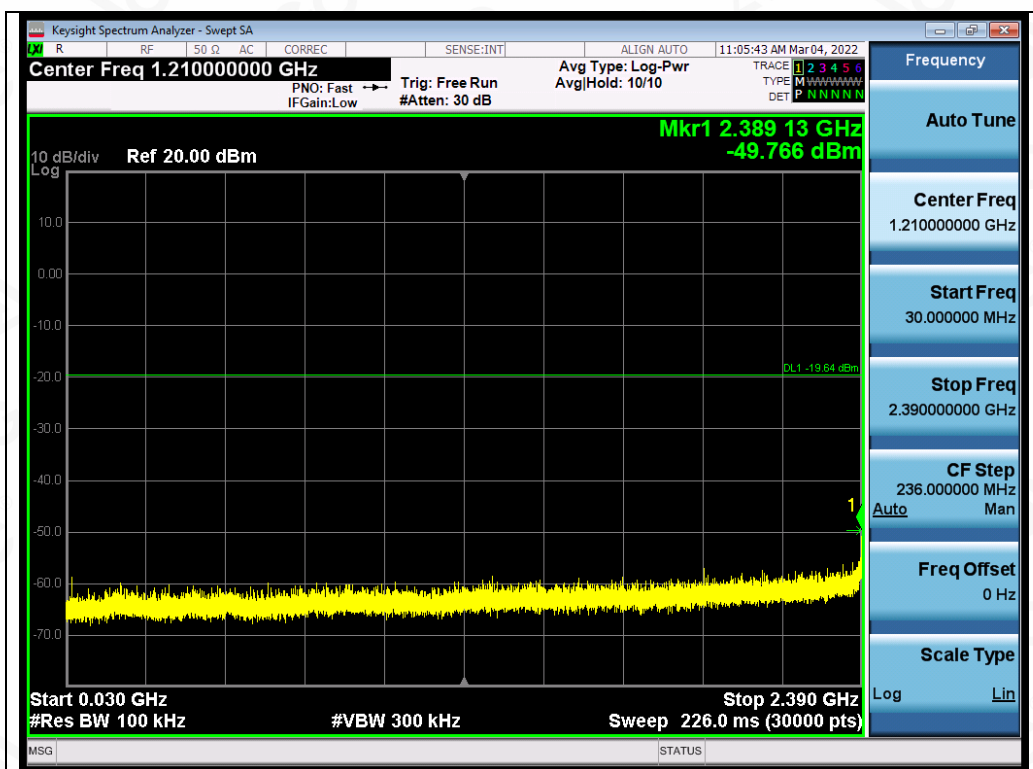


Test\_Graph\_802.11b\_ANT1\_2462\_1Mbps\_Higher Band Emissions

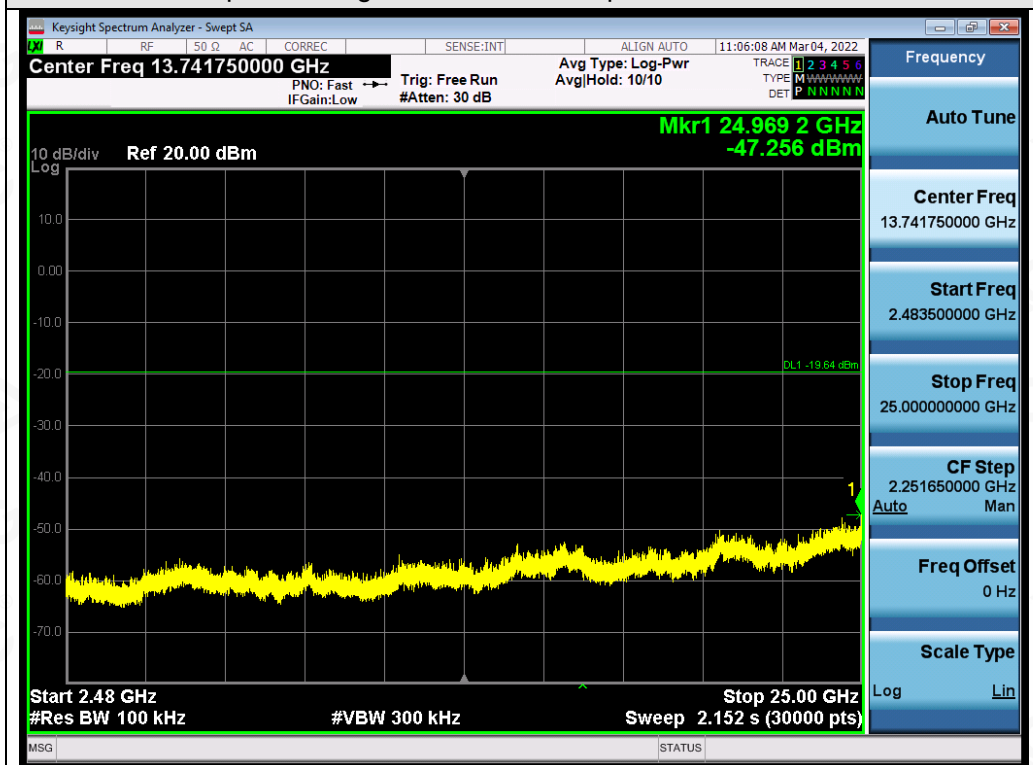
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Test\_Graph\_802.11g\_ANT1\_2412\_6Mbps\_Lower Band Emissions

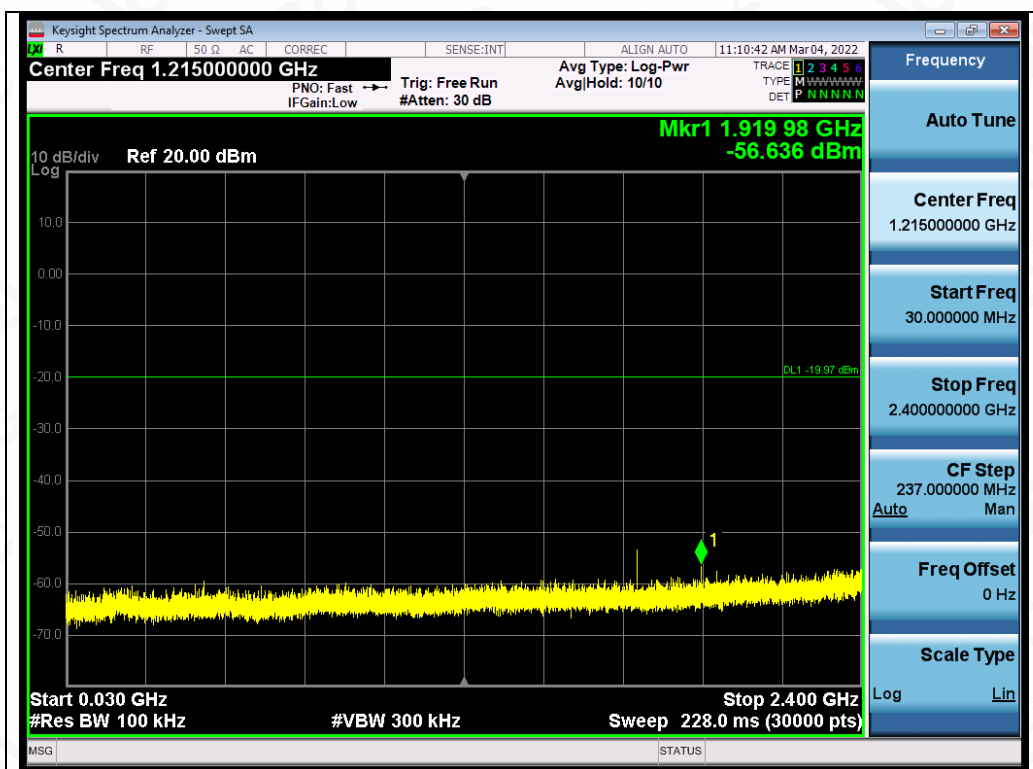


Test\_Graph\_802.11g\_ANT1\_2412\_6Mbps\_Higher Band Emissions

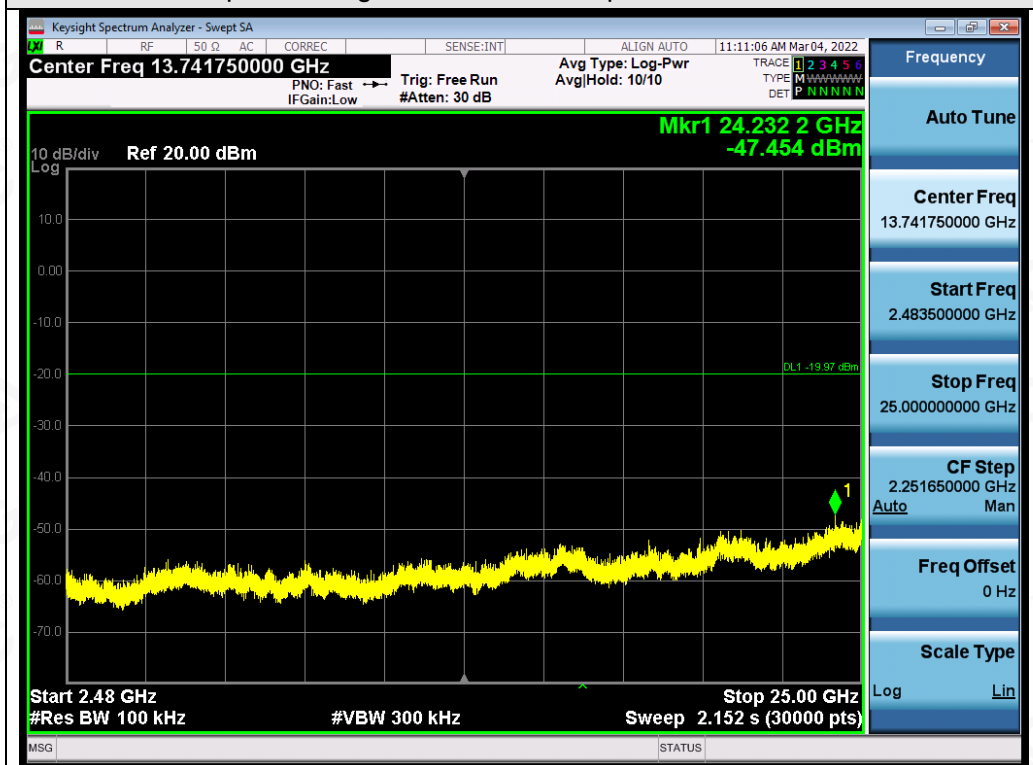
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Test\_Graph\_802.11g\_ANT1\_2437\_6Mbps\_Lower Band Emissions

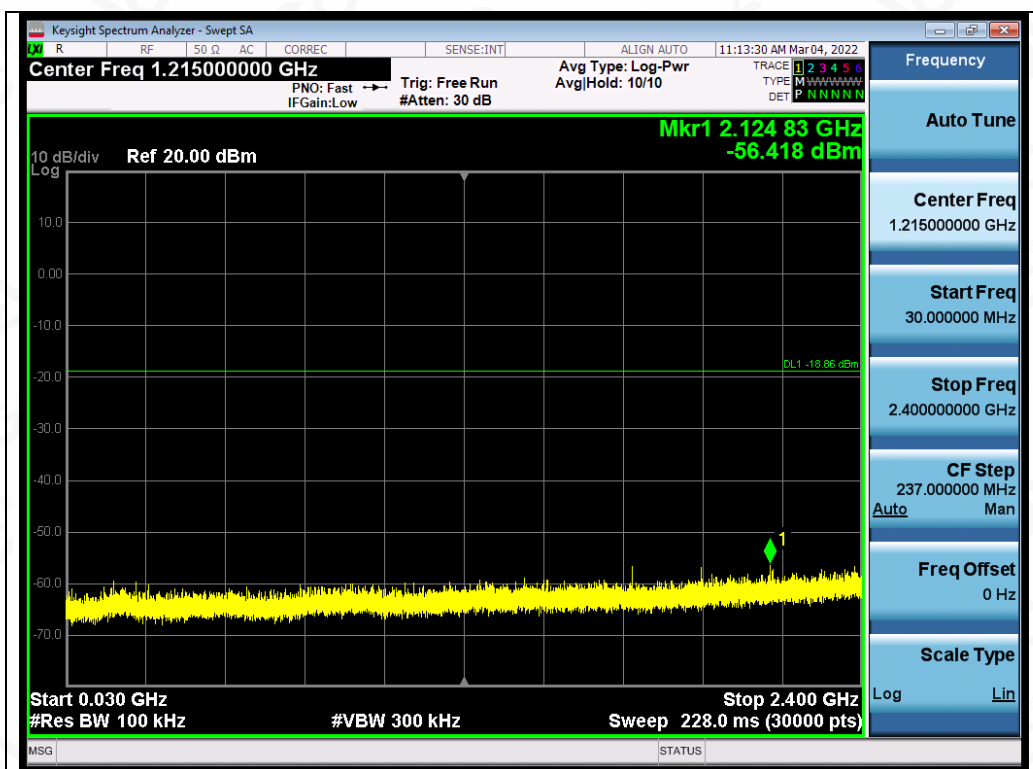


Test\_Graph\_802.11g\_ANT1\_2437\_6Mbps\_Higher Band Emissions

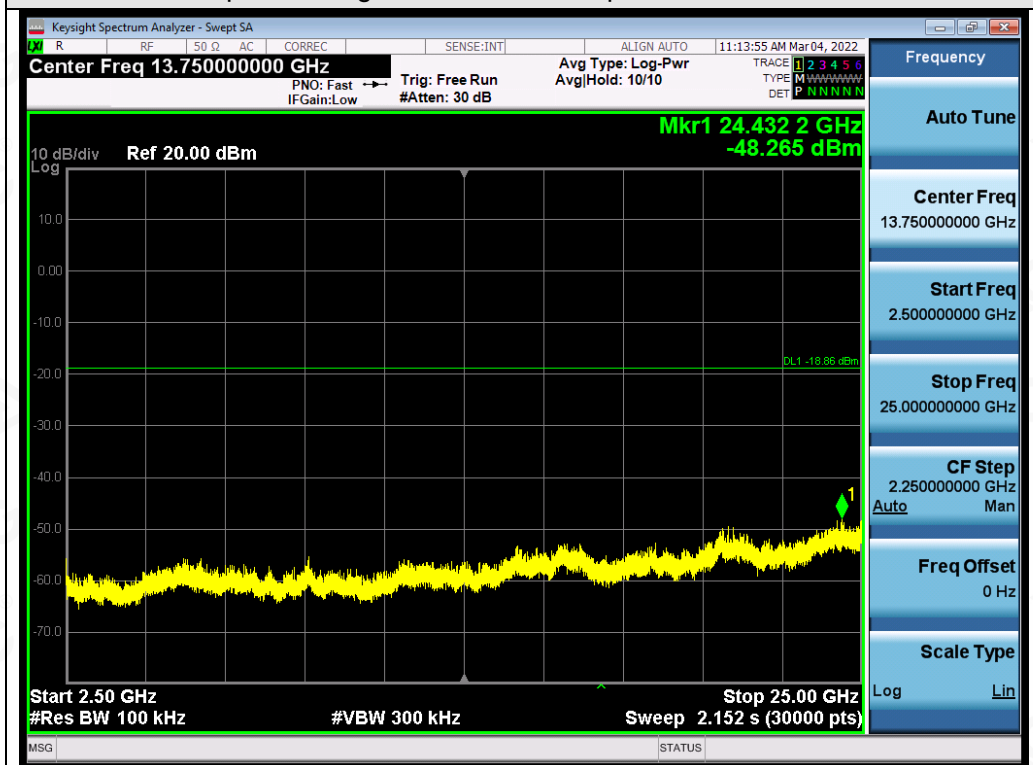
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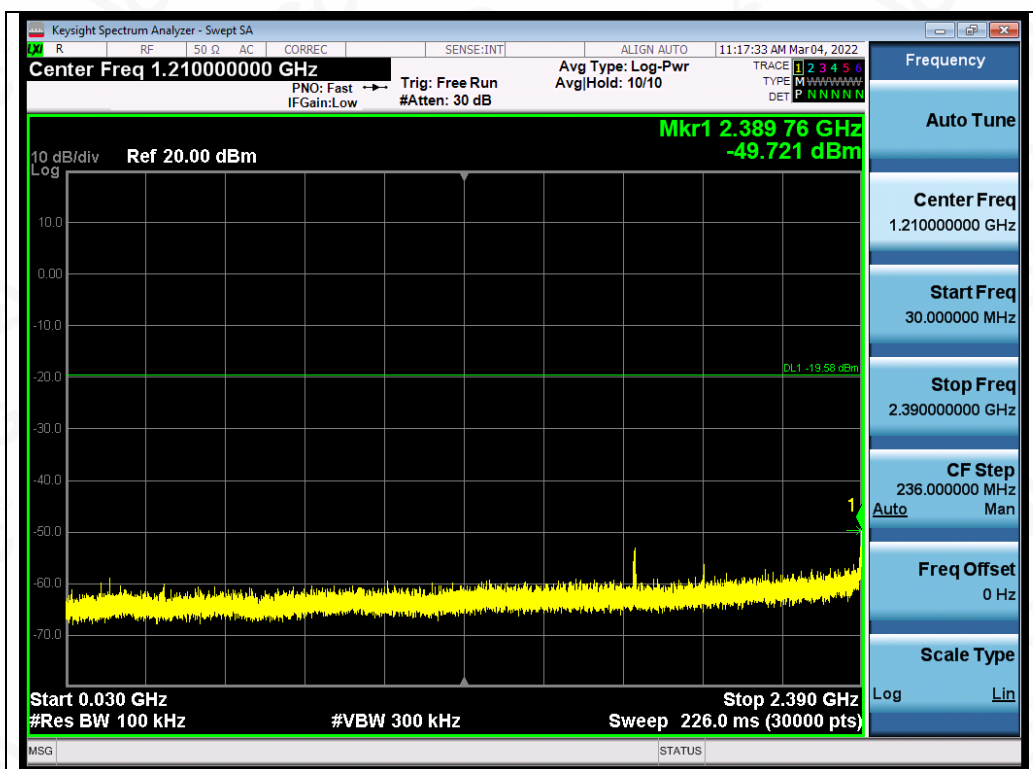
Test\_Graph\_802.11g\_ANT1\_2462\_6Mbps\_Higher Band Emissions

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Test\_Graph\_802.11n20\_ANT1\_2412\_MCS0\_Lower Band Emissions

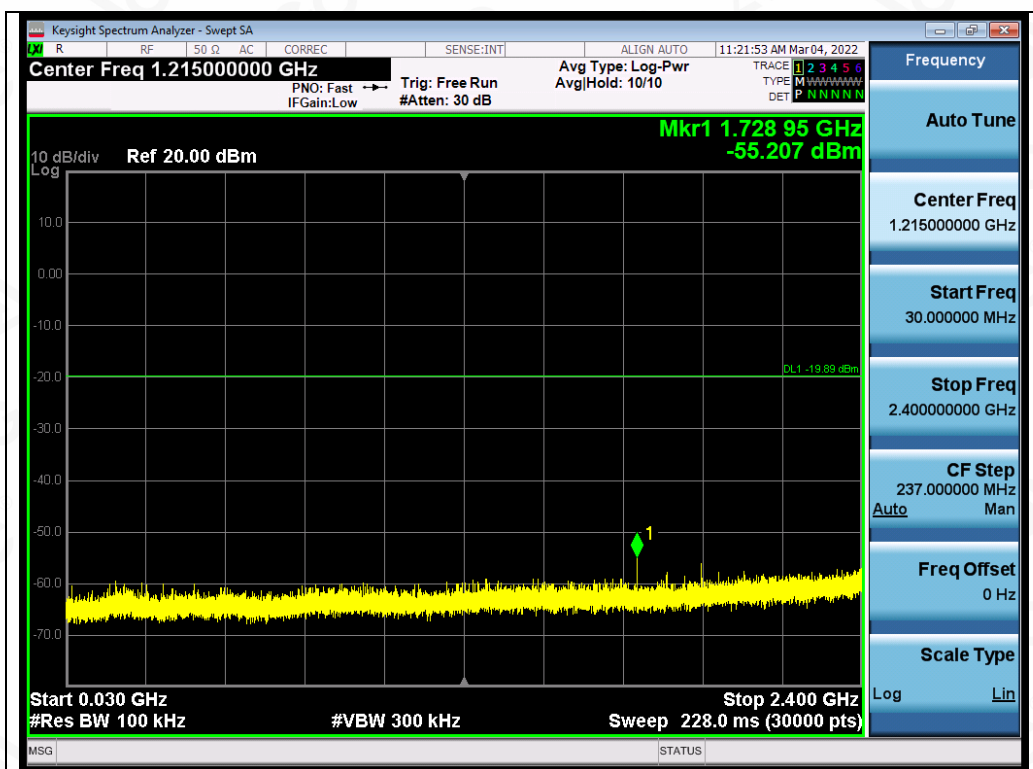


Test\_Graph\_802.11n20\_ANT1\_2412\_MCS0\_Higher Band Emissions

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Test\_Graph\_802.11n20\_ANT1\_2437\_MCS0\_Lower Band Emissions

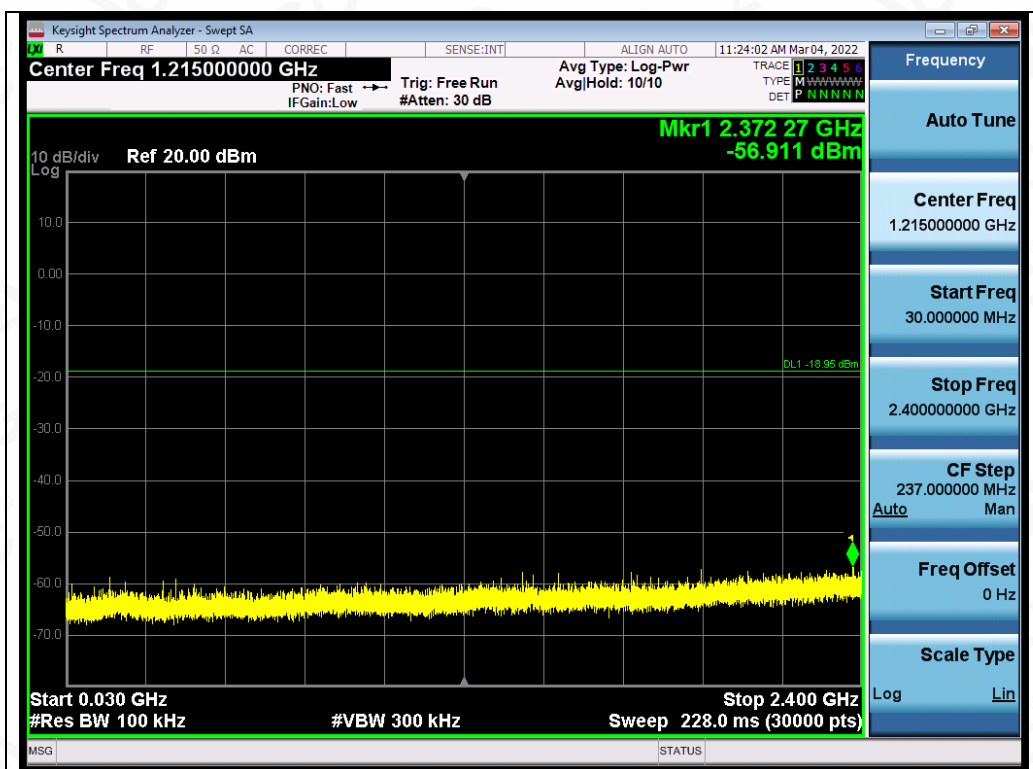


Test\_Graph\_802.11n20\_ANT1\_2437\_MCS0\_Higher Band Emissions

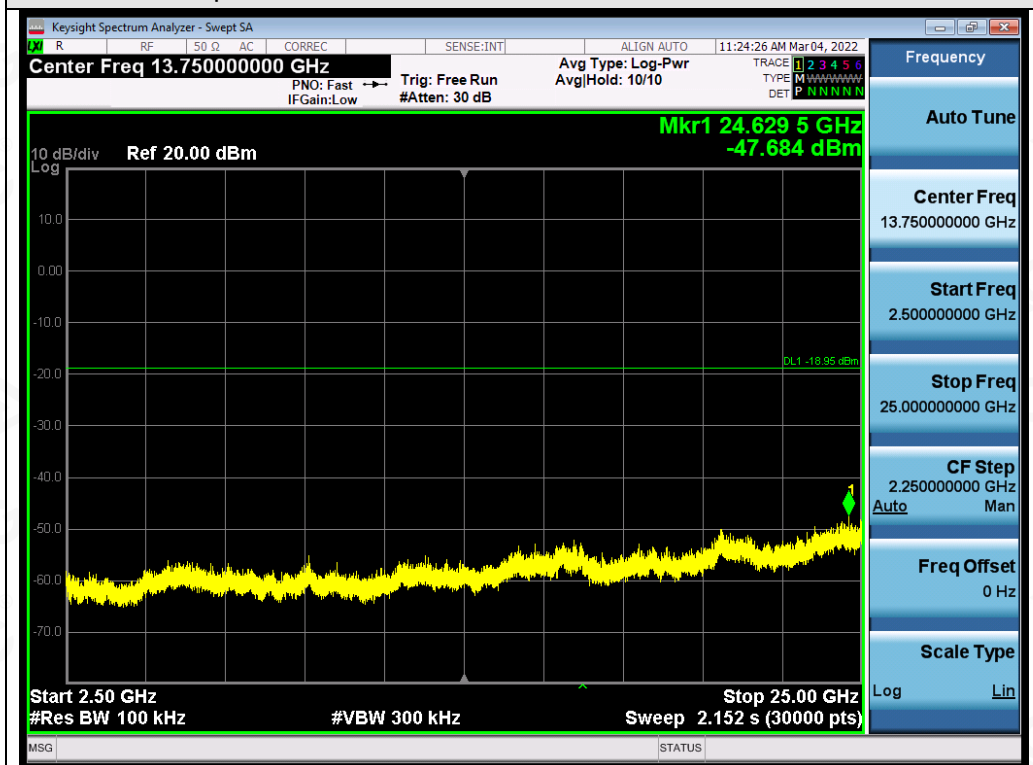
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Test\_Graph\_802.11n20\_ANT1\_2462\_MCS0\_Lower Band Emissions



Test\_Graph\_802.11n20\_ANT1\_2462\_MCS0\_Higher Band Emissions

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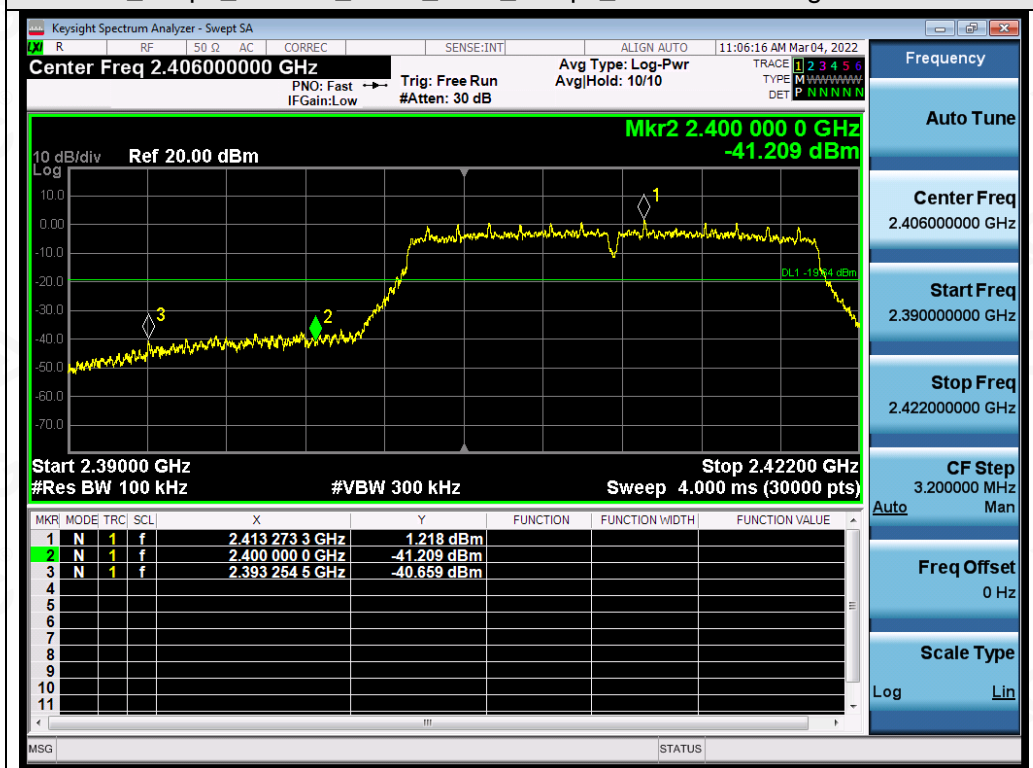
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### Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



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

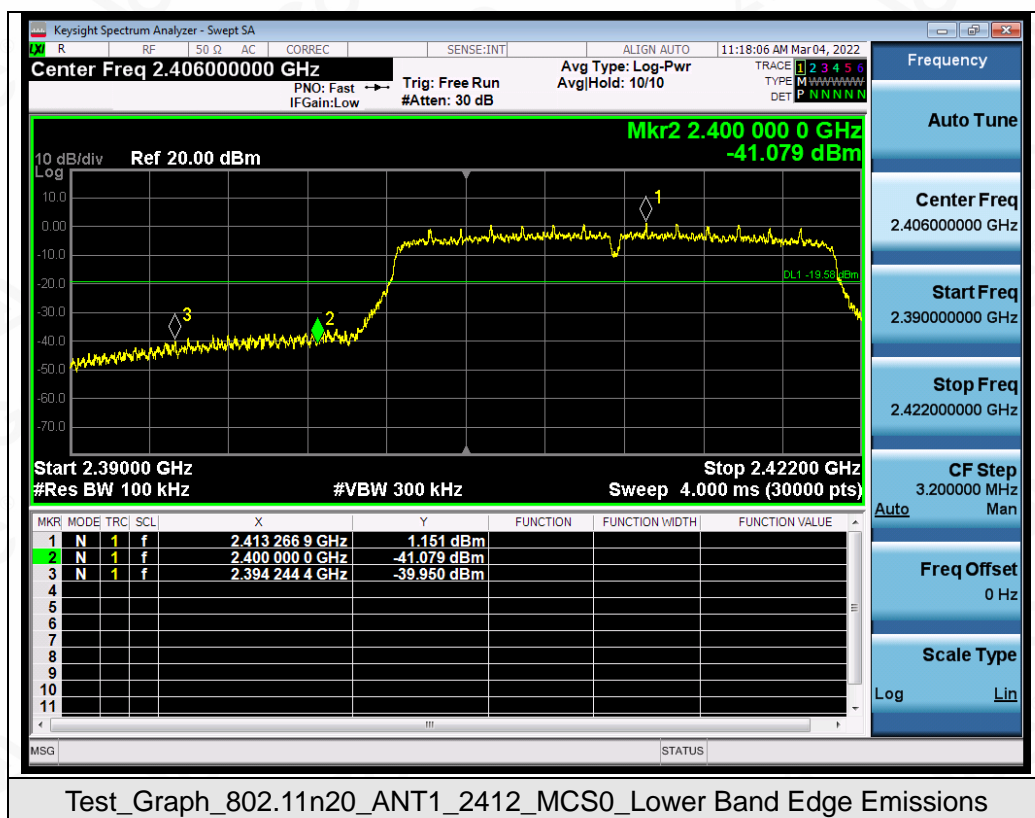


Test\_Graph\_802.11g\_ANT1\_2412\_6Mbps\_Lower Band Edge Emissions

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Note: Emissions from 2483.5-2500MHz which fall in the restricted bands had been considered with the radiated emission limits specified.

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