

FCC Test Report

Report No.: AGC11034220106FE05

FCC ID : 2AYHE-2201E

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: WiFi IP Camera

BRAND NAME : Reolink

MODEL NAME : RLC-542WA

APPLICANT: Reolink Innovation Limited

DATE OF ISSUE : Mar. 14, 2022

STANDARD(S)

TEST PROCEDURE(S)

: FCC Part 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	/	Mar. 14, 2022	Valid	Initial Release

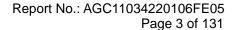
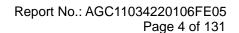




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1. VERIFICATION OF CONFORMITY

	1
Applicant	Reolink Innovation Limited
Address	FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG
manufacturer	Reolink Innovation Limited
Address	FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG
Factory	Shenzhen Reolink Technology Co., Ltd.
Address	2-4th Floor, Building 2, YuanLing Industrial Park, ShangWu, Shiyan Street, Bao'an District, Shenzhen, China
Product Designation	WiFi IP Camera
Brand Name	Reolink
Test Model	RLC-542WA
Date of test	Feb. 17, 2022 to Mar. 14, 2022
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	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.

Cool Cheng
(Project Engineer)

Reviewed By

Calvin Liu
(Reviewer)

Mar. 14, 2022

Mar. 14, 2022

Mar. 14, 2022

Max Zhang
(Authorized Officer)

Mar. 14, 2022

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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "WiFi IP 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

Equipment Type	WLAN 2.4G
Frequency Band	2400MHz ~ 2483.5MHz
Operation Frequency	2412MHz ~ 2462MHz
Output Power (Average)	IEEE 802.11b:16.80dBm; IEEE 802.11g:14.55dBm;
Cutput i Ower (Average)	IEEE 802.11n(HT20):12.98dBm; IEEE 802.11n(HT40):12.99dBm
Output Power (Peak)	IEEE 802.11b:19.37dBm; IEEE 802.11g:21.88dBm;
Cutput i cutoi (i cutty	2400MHz ~ 2483.5MHz 2412MHz ~ 2462MHz EEE 802.11b:16.80dBm; IEEE 802.11g:14.55dBm; EEE 802.11n(HT20):12.98dBm; IEEE 802.11n(HT40):12.99dBm EEE 802.11b:19.37dBm; IEEE 802.11g:21.88dBm; EEE 802.11n(HT20):20.44dBm; IEEE 802.11n(HT40):20.26dBm EEE 802.11n(HT20):15.34dBm; IEEE 802.11n(HT40):14.78dBm B02.11b:DQPSK, DBPSK, CCK B02.11g/n: 64-QAM, 16-QAM, QPSK, BPSK B02.11g: 6/9/12/18/24/36/48/54Mbps B02.11g: 6/9/12/18/24/36/48/54Mbps B02.11n: up to 300Mbps B02.11n: up to 300Mbps B02.11d: 0.22011364 External antenna (Comply with requirements of the FCC part 15.203) Refer to Chapter 2.9 of the report. B02.811b/g/n all used two antennas, but 802.11b/g support SISO and 802.11bsupport MIMO)
Output Power (MIMO)	IEEE 802.11n(HT20):15.34dBm; IEEE 802.11n(HT40):14.78dBm
Modulation	802.11b:DQPSK, DBPSK, CCK
Woddiation	802.11g/n: 64-QAM, 16-QAM, QPSK, BPSK
	802.11b: 1/2/5.5/11Mbps
Data Rate	802.11g: 6/9/12/18/24/36/48/54Mbps
	802.11n: up to 300Mbps
Number of channels	11
Hardware Version	N25C11
Software Version	710_22011364
Antenna Designation	External antenna (Comply with requirements of the FCC part 15.203)
Antenna Gain	Refer to Chapter 2.9 of the report.
Number of transmit chain	2(802.11b/g/n all used two antennas, but 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 FREQUENCYS

Frequency Band	Channel Number	Frequency
	1	2412 MHZ
	2	2417 MHZ
	3	2422 MHZ
4	2427 MHZ	
	5	2432 MHZ
2400~2483.5MHZ	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. For 40MHZ bandwidth system use Channel 3 to Channel 9



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2.3. IEEE 802.11N MODULATION SCHEME

MCS Index	Nss	Modulation	R	NBPSC	NCI	NCBPS		3PS		nta (Ibps) nsGl
					20MHz	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**: **2AYHE-2201E** 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.



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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.

2.9. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Antenna Frequency		Bandwidth	Max Peal	k Gain (dBi)	Max Directional Gain			
Type	Band (MHz)	Paths	(MHz)	Ant 1	Ant 2	(dBi)			
2.4GWIFI	2.4GWIFI External Antenna List (2.4GHz 2*2 MIMO)								
External Antenna	2400~2483.5	2	20, 40	3	3	6.01			

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

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

If all antennas have the same gain, Gant, Directional gain = Gant + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on devices:

Array Gain = 10 log (Nant/ Nss) dB = 3.01;

For power measurements on IEEE 802.1devices:

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

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥40 MHz for any NANT;

Array Gain = 5 log(Nant/Nss) dB or 3 dB, whichever is less, for 20 MHz channel widths with Nant ≥ 5.

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

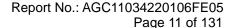


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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±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	$U_c = \pm 3.1 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.8 \text{ dB}$
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	$U_c = \pm 2 \%$





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 Date rate (1/2/5.5/11)

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

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

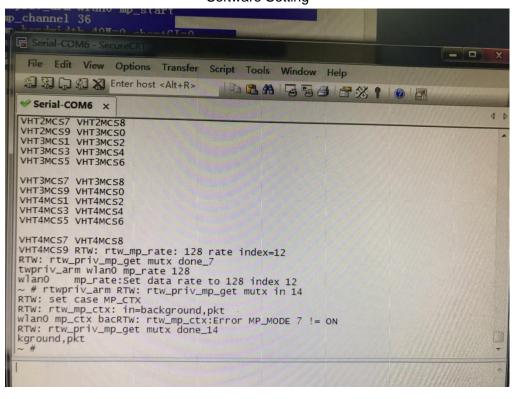
Transmit by 802.11n (40MHz) with Date rate (13.5/27/40.5/54/81/108/121.5/135)

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

The test channel for 40MHZ bandwidth system is channel 3, 6 and 9.

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

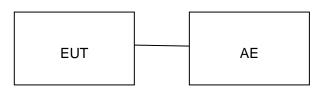


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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	WiFi IP Camera	RLC-542WA 2AYHE-2201E		EUT
2	Adapter	DCT12W120100US-B0	Input:100-240V, 50/60Hz, 0.3A Output:12.0V, 1.0A	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247(b)(3)	Output Power	Compliant
§15.247(a)(2)	6 dB Bandwidth	Compliant
§15.247	Conducted Spurious Emission	Compliant
§15.247(e)	Maximum Conducted Output Power Spectral Density	Compliant
§15.209	Radiated Emission	Compliant
§15.247(d)	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant



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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	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 15, 2021	May 14, 2022
LISN	R&S	ESH2-Z5	100086	Jun. 09, 2021	Jun. 08, 2022
Test software	R&S	ES-K1(Ver.V1.71)	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	10096	May 15, 2021	May 14, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Nov. 17, 2021	Nov. 16, 2022
Power sensor	Aglient	U2021XA	MY54110007	Jun. 06, 2021	Jun. 05, 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	SCHWARZBECK	BBHA 9170	#768	Oct. 31, 2021	Oct. 30, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	00034609	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2022
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	D69250	Jan. 08, 2020	Jan. 07, 2023
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A



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7. OUTPUT POWER

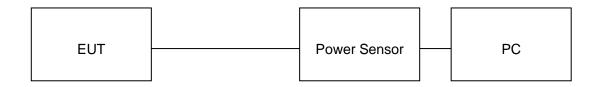
7.1. MEASUREMENT PROCEDURE

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-antenna 1					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
	2412	15.72	18.19	≤30	Pass
802.11b	2437	16.53	19.08	≤30	Pass
	2462	16.80	19.37	≤30	Pass
	2412	13.42	20.84	≤30	Pass
802.11g	2437	13.83	21.37	≤30	Pass
	2462	14.55	21.88	≤30	Pass
	2412	12.08	19.41	≤30	Pass
802.11n20	2437	12.90	19.91	≤30	Pass
	2462	12.98	20.44	≤30	Pass
802.11n40	2422	12.60	20.14	≤30	Pass
	2437	12.99	20.26	≤30	Pass
	2452	11.98	19.66	≤30	Pass

Test Data of Conducted Output Power-antenna 2					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
	2412	13.62	16.25	≤30	Pass
802.11b	2437	14.41	16.99	≤30	Pass
	2462	14.28	16.80	≤30	Pass
	2412	12.55	20.21	≤30	Pass
802.11g	2437	13.16	20.46	≤30	Pass
	2462	13.06	20.52	≤30	Pass
	2412	11.28	18.78	≤30	Pass
802.11n20	2437	11.51	19.02	≤30	Pass
	2462	11.56	19.16	≤30	Pass
802.11n40	2422	10.25	17.72	≤30	Pass
	2437	10.08	17.87	≤30	Pass
	2452	11.03	18.16	≤30	Pass



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Test Data of Conducted Output Power-antenna 1+2					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	2412	14.71	22.12	≤30	Pass
	2437	15.27	22.50	≤30	Pass
	2462	15.34	22.86	≤30	Pass
802.11n40	2422	14.59	22.11	≤30	Pass
	2437	14.78	22.24	≤30	Pass
	2452	14.54	21.99	≤30	Pass



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8. BANDWIDTH

8.1. MEASUREMENT PROCEDURE

6dB bandwidth:

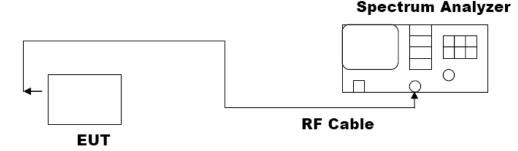
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW≥3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

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 hoping 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)



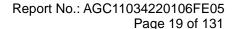


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8.3. LIMITS AND MEASUREMENT RESULTS

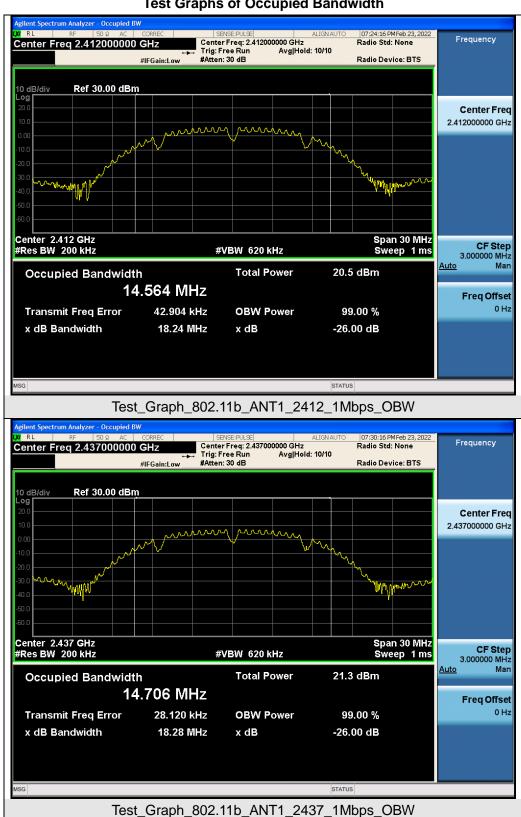
Test Data of Occupied Bandwidth and DTS Bandwidth-antenna 1						
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail	
	2412	14.564	10.097	≥0.5	Pass	
802.11b	2437	14.706	10.103	≥0.5	Pass	
	2462	14.729	10.102	≥0.5	Pass	
	2412	16.460	15.580	≥0.5	Pass	
802.11g	2437	16.485	15.937	≥0.5	Pass	
	2462	16.550	15.692	≥0.5	Pass	
	2412	17.756	15.451	≥0.5	Pass	
802.11n20	2437	17.789	15.711	≥0.5	Pass	
	2462	17.871	16.013	≥0.5	Pass	
802.11n40	2422	36.299	35.129	≥0.5	Pass	
	2437	36.387	35.131	≥0.5	Pass	
	2452	36.366	35.123	≥0.5	Pass	

Test Data of Occupied Bandwidth and DTS Bandwidth-antenna 2					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
	2412	14.583	10.111	≥0.5	Pass
802.11b	2437	14.746	10.108	≥0.5	Pass
	2462	14.767	10.107	≥0.5	Pass
	2412	16.545	15.509	≥0.5	Pass
802.11g	2437	16.583	15.339	≥0.5	Pass
	2462	16.629	15.505	≥0.5	Pass
	2412	17.760	15.716	≥0.5	Pass
802.11n20	2437	17.766	16.270	≥0.5	Pass
	2462	17.849	16.283	≥0.5	Pass
802.11n40	2422	36.249	35.129	≥0.5	Pass
	2437	36.279	35.127	≥0.5	Pass
	2452	36.381	35.121	≥0.5	Pass





Test Graphs of Occupied Bandwidth

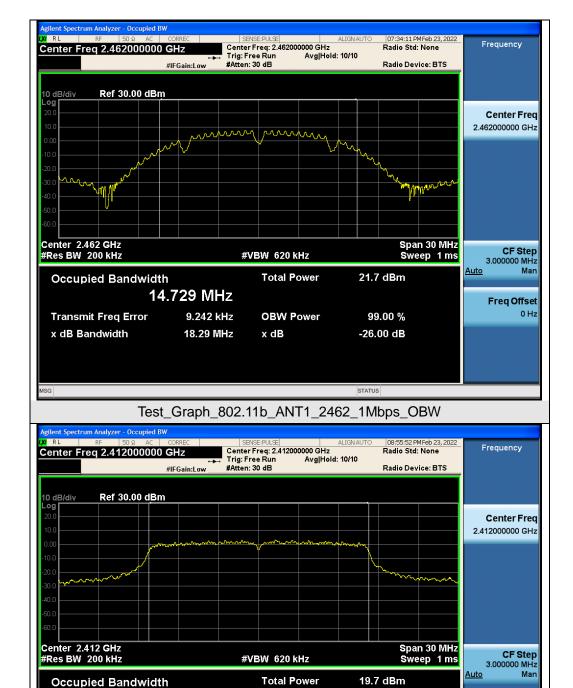


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Freq Offset 0 Hz





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OBW Power

Test_Graph_802.11g_ANT1_2412_6Mbps_OBW

x dB

99.00 %

-26.00 dB

16.460 MHz

26.469 kHz

22.43 MHz

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

Transmit Freq Error x dB Bandwidth

Freq Offset 0 Hz





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OBW Power

Test_Graph_802.11g_ANT1_2462_6Mbps_OBW

x dB

99.00 %

-26.00 dB

16.550 MHz

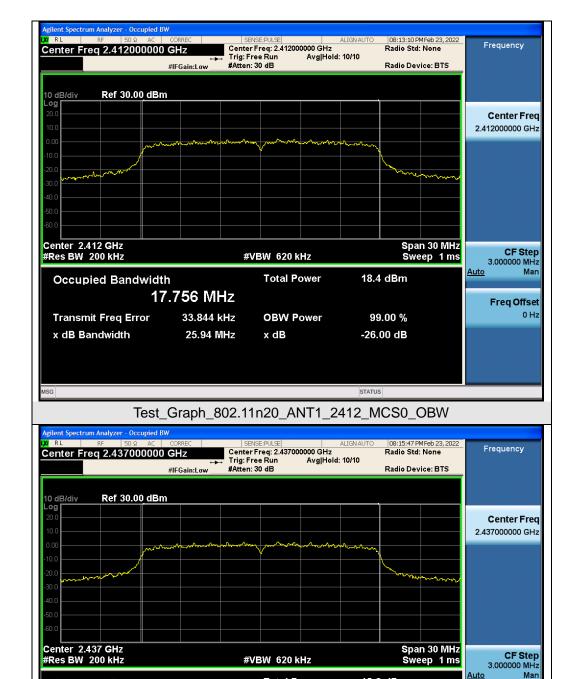
10.857 kHz

27.26 MHz

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

Transmit Freq Error x dB Bandwidth





Total Power

OBW Power

Test_Graph_802.11n20_ANT1_2437_MCS0_OBW

x dB

18.9 dBm

99.00 %

-26.00 dB

Freq Offset 0 Hz

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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

Occupied Bandwidth

Transmit Freq Error x dB Bandwidth

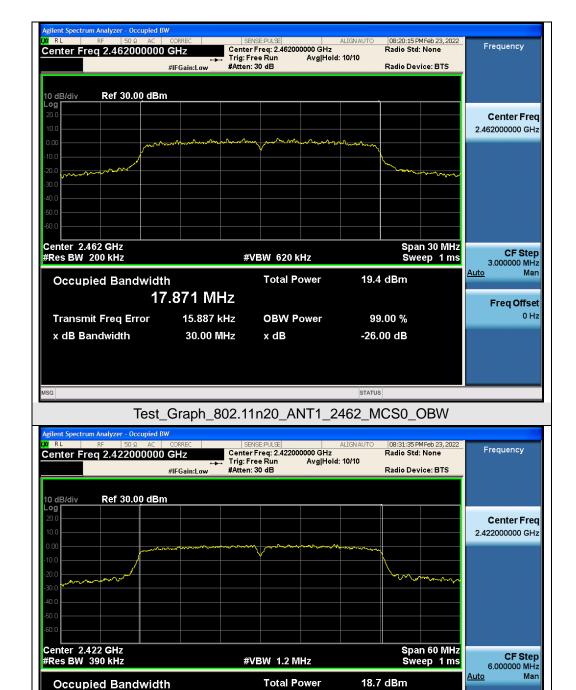
17.789 MHz

23.538 kHz

28.25 MHz

Freq Offset 0 Hz





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OBW Power

Test_Graph_802.11n40_ANT1_2422_MCS0_OBW

x dB

99.00 %

-26.00 dB

36.299 MHz

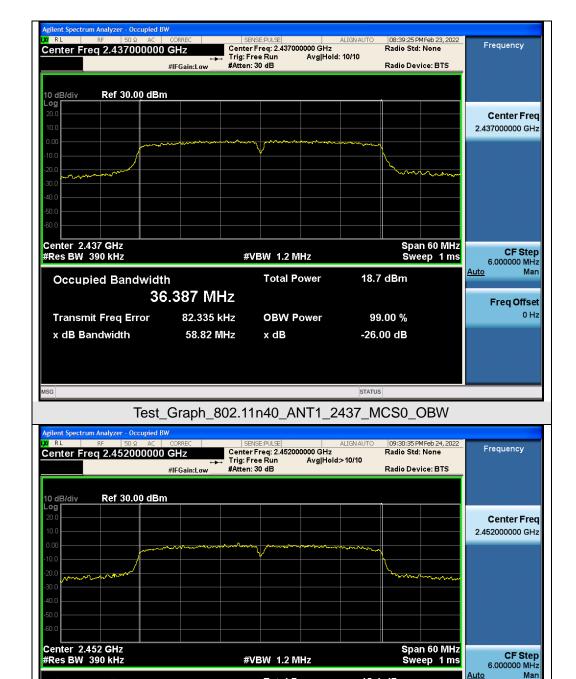
84.988 kHz

58.52 MHz

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

Transmit Freq Error x dB Bandwidth





Total Power

OBW Power

Test_Graph_802.11n40_ANT1_2452_MCS0_OBW

x dB

18.1 dBm

99.00 %

-26.00 dB

Freq Offset 0 Hz

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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

Occupied Bandwidth

Transmit Freq Error x dB Bandwidth

36.366 MHz

48.544 kHz

59.45 MHz

<u>Auto</u>

Freq Offset 0 Hz

19.2 dBm

99.00 %

-26.00 dB





Total Power

OBW Power

Test_Graph_802.11b_ANT2_2437_1Mbps_OBW

x dB

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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

Occupied Bandwidth

Transmit Freq Error x dB Bandwidth

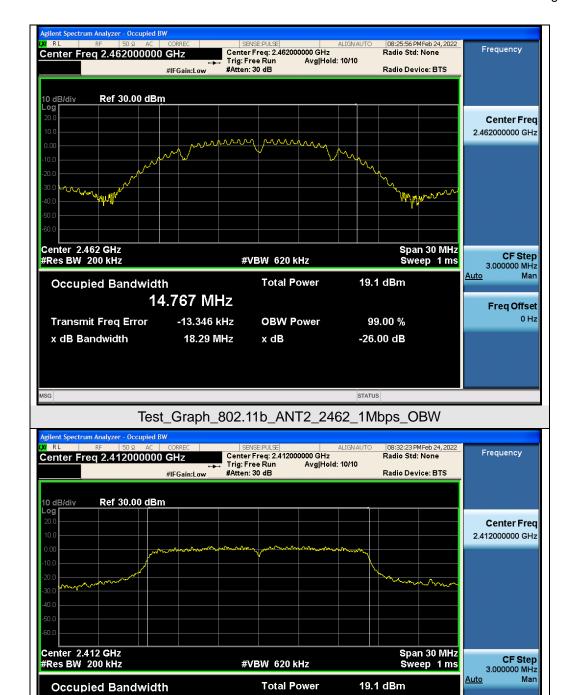
14.746 MHz

13.284 kHz

18.28 MHz

Freq Offset 0 Hz





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OBW Power

Test_Graph_802.11g_ANT2_2412_6Mbps_OBW

x dB

99.00 %

-26.00 dB

16.545 MHz

12.823 kHz

24.93 MHz

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

Transmit Freq Error x dB Bandwidth

Freq Offset 0 Hz





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OBW Power

Test_Graph_802.11g_ANT2_2462_6Mbps_OBW

x dB

99.00 %

-26.00 dB

16.629 MHz

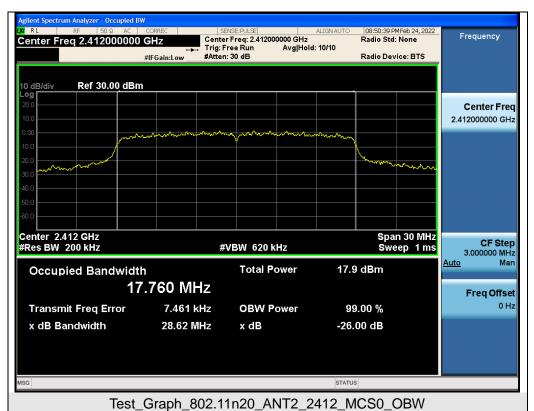
-12.018 kHz

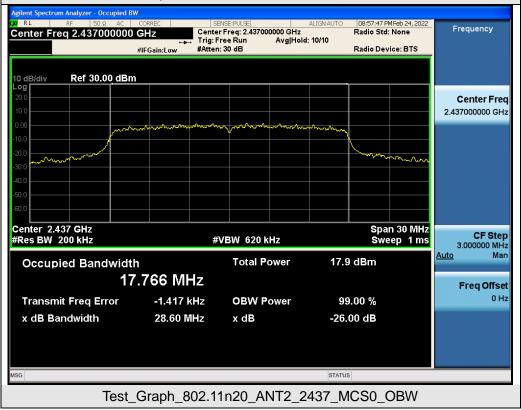
27.81 MHz

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

Transmit Freq Error x dB Bandwidth





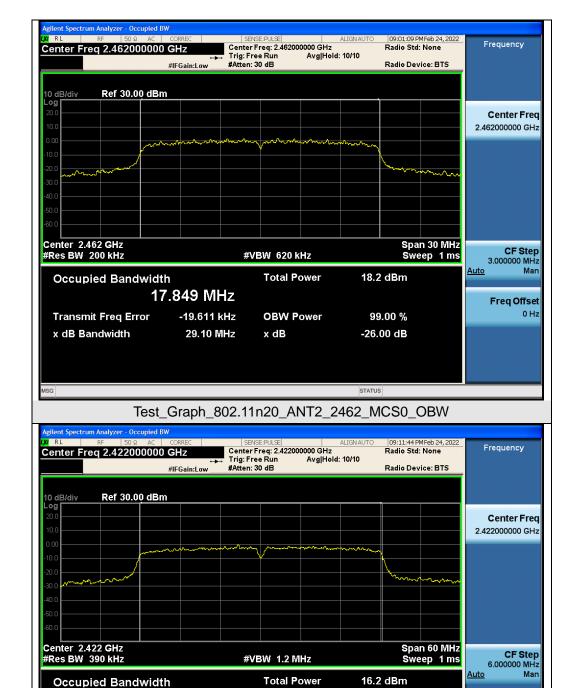


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Freq Offset 0 Hz





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OBW Power

Test_Graph_802.11n40_ANT2_2422_MCS0_OBW

x dB

99.00 %

-26.00 dB

36.249 MHz

97.297 kHz

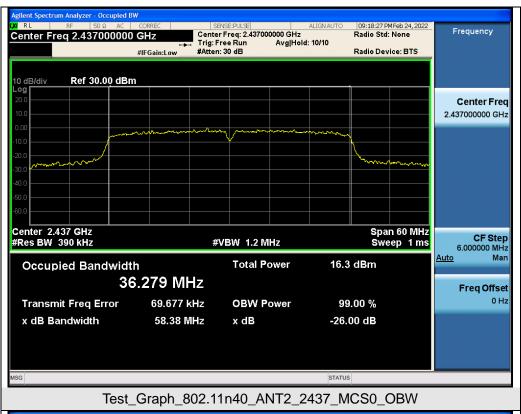
56.17 MHz

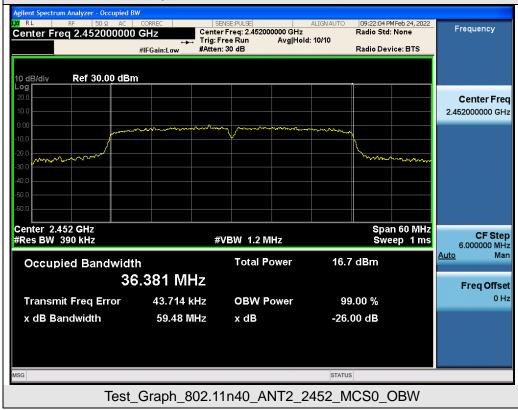
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

Transmit Freq Error

x dB Bandwidth







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Test Graphs of DTS Bandwidth



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Test_Graph_802.11b_ANT1_2437_1Mbps_DTSBW

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

<u>Auto</u>

Freq Offset 0 Hz

19.1 dBm

99.00 %

-6.00 dB





Total Power

OBW Power

Test_Graph_802.11g_ANT1_2412_6Mbps_DTSBW

x dB

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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

Occupied Bandwidth

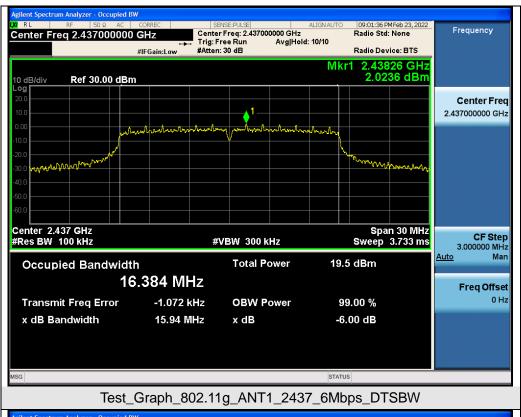
Transmit Freq Error x dB Bandwidth

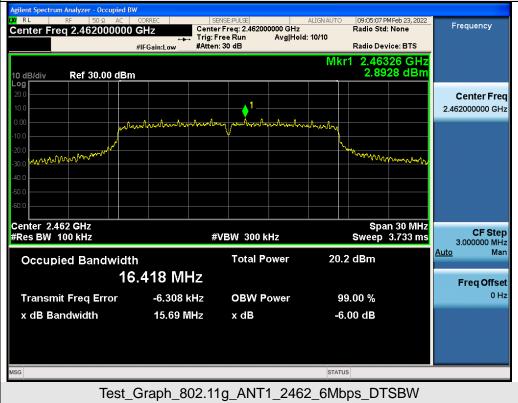
16.373 MHz

2.763 kHz

15.58 MHz





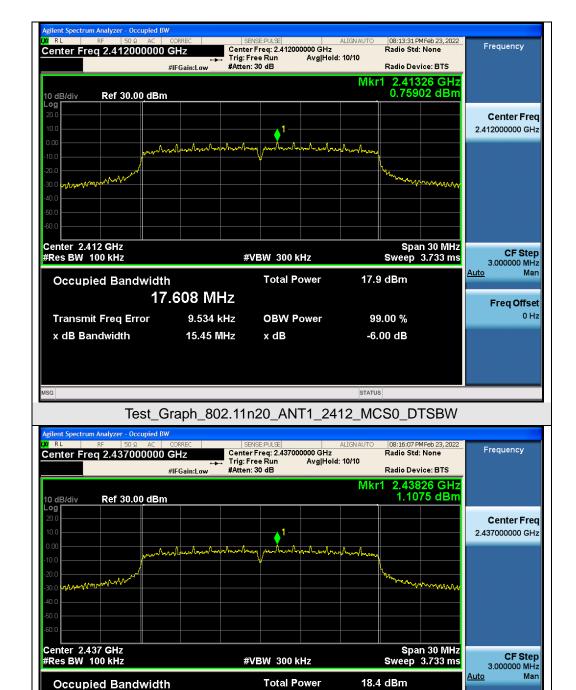


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Freq Offset 0 Hz





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OBW Power

Test_Graph_802.11n20_ANT1_2437_MCS0_DTSBW

x dB

99.00 %

-6.00 dB

17.628 MHz

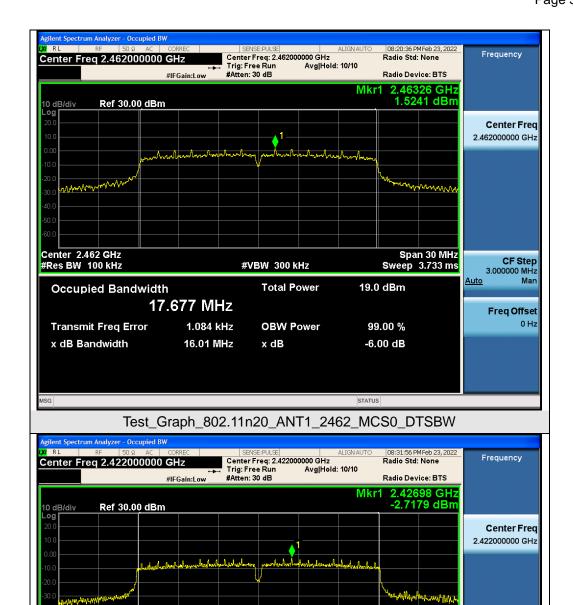
7.229 kHz

15.71 MHz

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

Transmit Freq Error x dB Bandwidth





Span 60 MHz Sweep 7.467 ms

17.6 dBm

99.00 %

-6.00 dB

CF Step

6.000000 MHz

Freq Offset 0 Hz

<u>Auto</u>

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#VBW 300 kHz

x dB

Total Power

OBW Power

Test Graph 802.11n40 ANT1 2422 MCS0 DTSBW

Center 2.422 GHz #Res BW 100 kHz

Occupied Bandwidth

Transmit Freq Error x dB Bandwidth

36.095 MHz

44.173 kHz

35.13 MHz

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

6.000000 MHz

Freq Offset 0 Hz

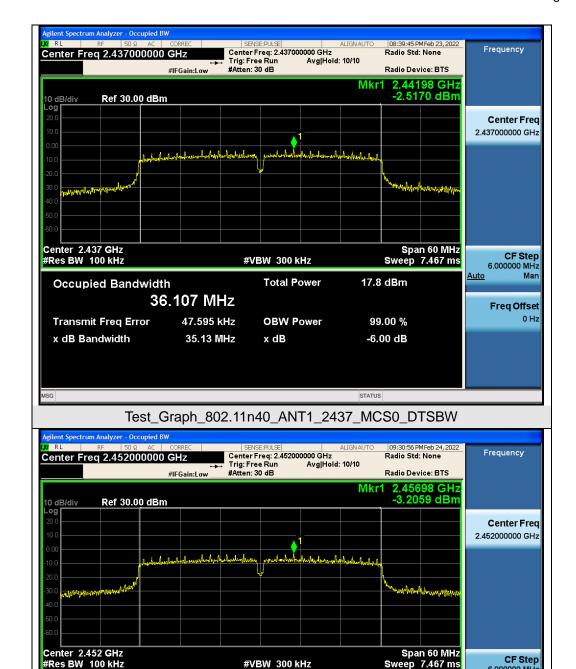
<u>Auto</u>

17.1 dBm

99.00 %

-6.00 dB





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Total Power

OBW Power

Test Graph 802.11n40 ANT1 2452 MCS0 DTSBW

x dB

Web: http://www.agccert.com/

Occupied Bandwidth

Transmit Freq Error x dB Bandwidth

36.211 MHz

5.853 kHz

35.12 MHz





Center 2.437 GHz #Res BW 100 kHz Span 30 MHz Sweep 3.733 ms **CF Step** #VBW 300 kHz 3.000000 MHz <u>Auto</u> **Total Power** 21.0 dBm Occupied Bandwidth 14.721 MHz Freq Offset 0 Hz -4.756 kHz **OBW Power** 99.00 % **Transmit Freq Error** x dB Bandwidth 10.11 MHz x dB -6.00 dB Test_Graph_802.11b_ANT2_2437_1Mbps_DTSBW

3.000000 MHz

Freq Offset 0 Hz

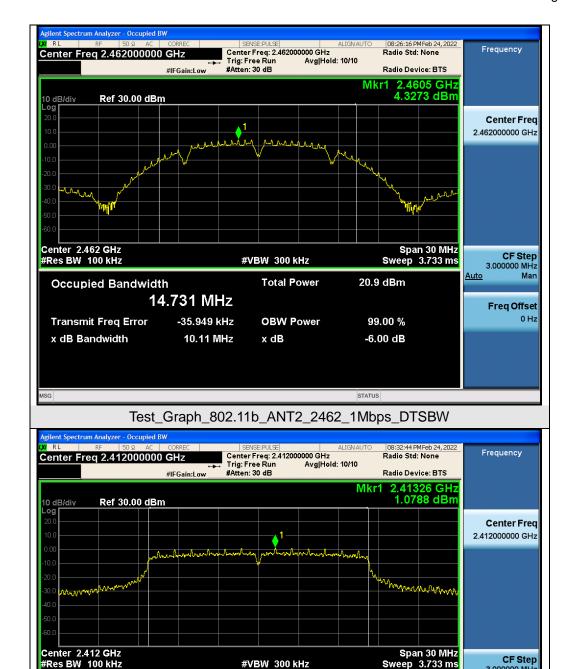
<u>Auto</u>

18.5 dBm

99.00 %

-6.00 dB





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Total Power

OBW Power

Test_Graph_802.11g_ANT2_2412_6Mbps_DTSBW

x dB

Web: http://www.agccert.com/

Occupied Bandwidth

Transmit Freq Error x dB Bandwidth

16.418 MHz

8.598 kHz

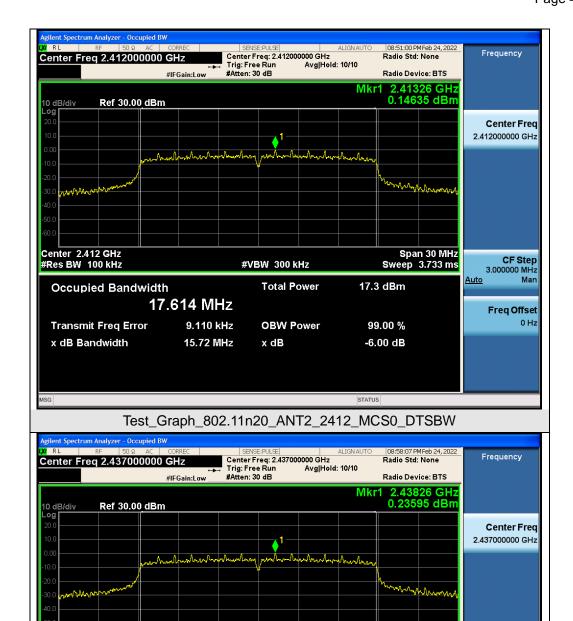
15.51 MHz











17.622 MHz

#VBW 300 kHz

Total Power

Span 30 MHz Sweep 3.733 ms

17.4 dBm

CF Step

3.000000 MHz

Freq Offset

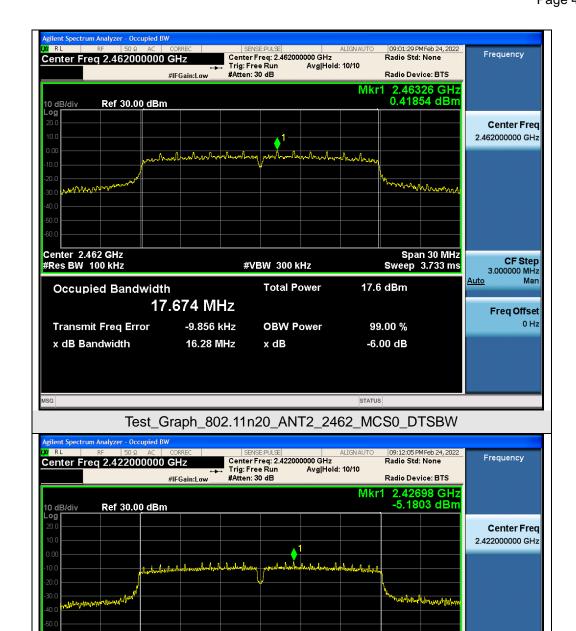
<u>Auto</u>

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Center 2.437 GHz #Res BW 100 kHz

Occupied Bandwidth





Span 60 MHz Sweep 7.467 ms

15.2 dBm

99.00 %

-6.00 dB

CF Step

6.000000 MHz

Freq Offset 0 Hz

<u>Auto</u>

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#VBW 300 kHz

x dB

Total Power

OBW Power

Test Graph 802.11n40 ANT2 2422 MCS0 DTSBW

Center 2.422 GHz #Res BW 100 kHz

Occupied Bandwidth

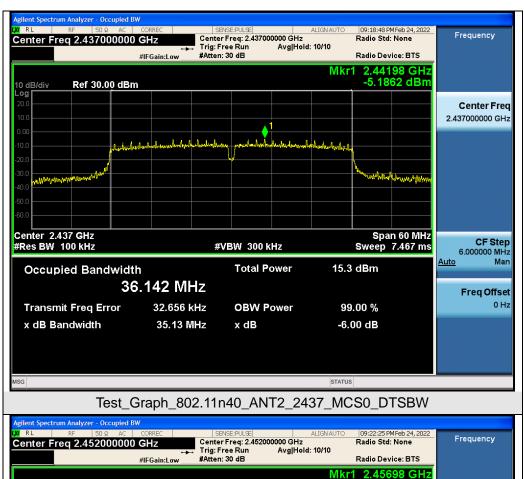
Transmit Freq Error x dB Bandwidth

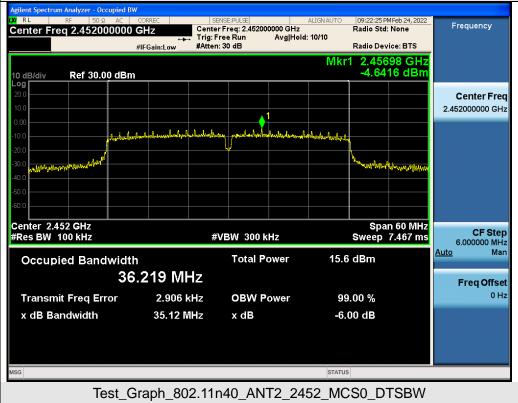
36.101 MHz

56.464 kHz

35.13 MHz









Report No.: AGC11034220106FE05

Page 43 of 131

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 USEDJN

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

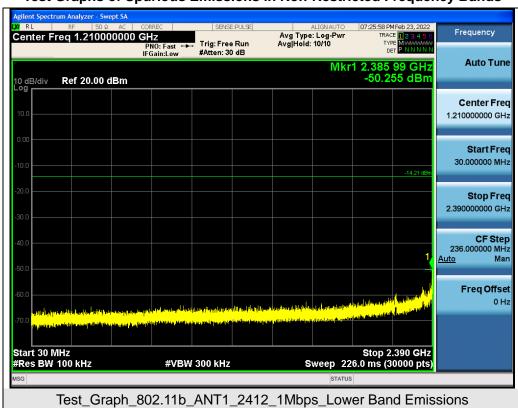
LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the	At least -20dBc than the limit	
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS
intentional radiator is operating, the radio frequency	Channel	
power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

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

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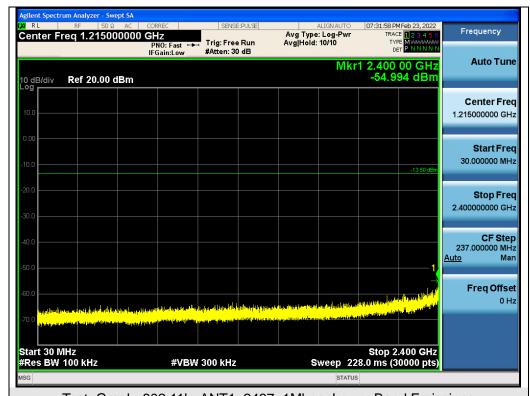
Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands





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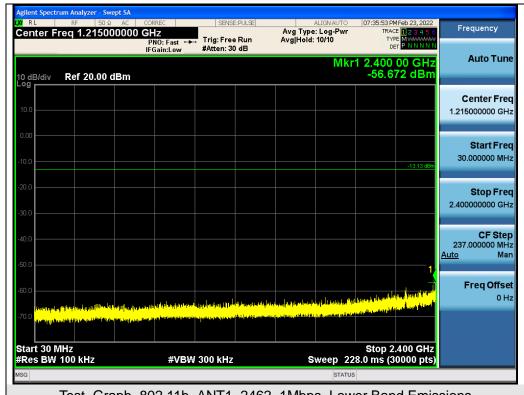


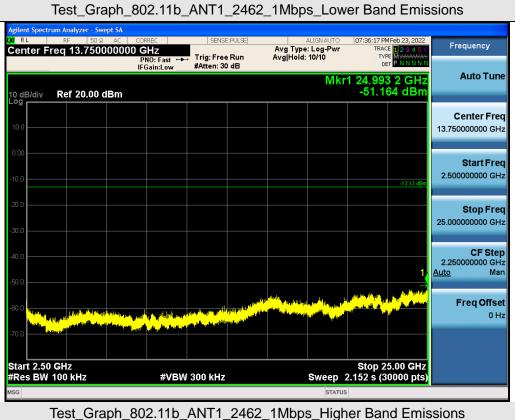


Test_Graph_802.11b_ANT1_2437_1Mbps_Lower Band Emissions

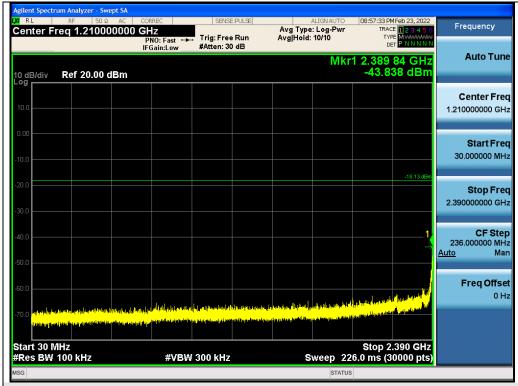








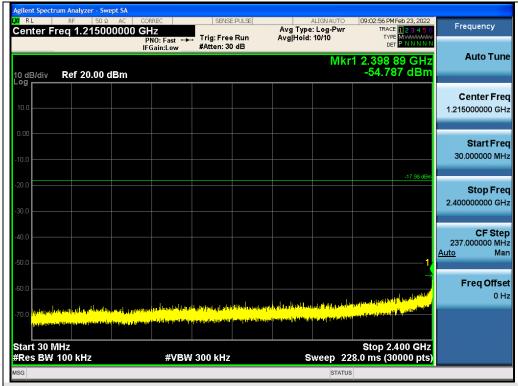




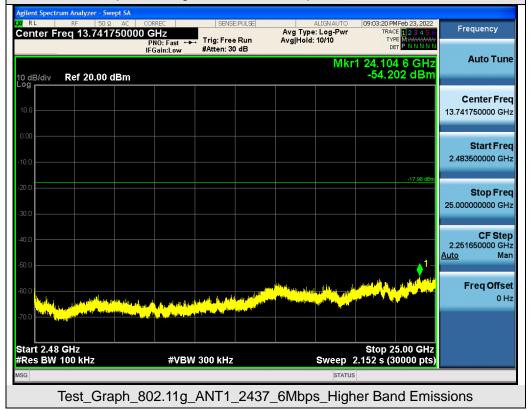
Test_Graph_802.11g_ANT1_2412_6Mbps_Lower Band Emissions



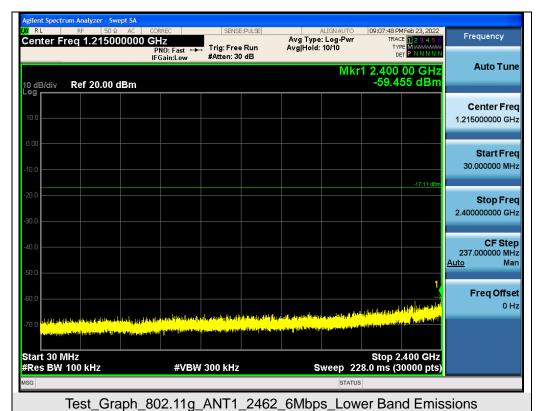




Test_Graph_802.11g_ANT1_2437_6Mbps_Lower Band Emissions

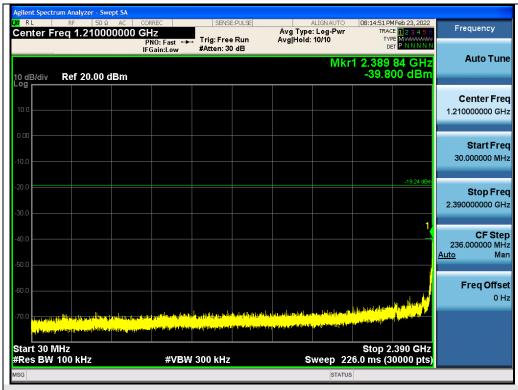




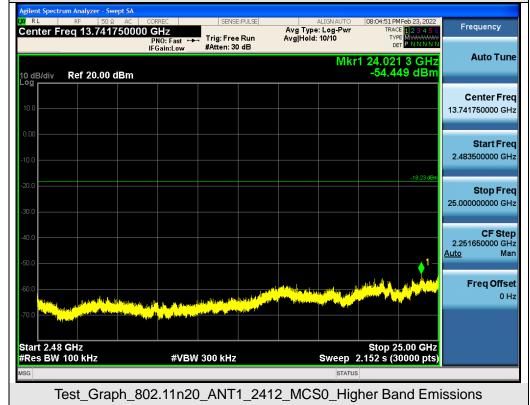


gilent Spectrum Analyzer - Swept SA Frequency Avg Type: Log-Pwi Avg|Hold: 10/10 Center Freq 13.750000000 GHz Trig: Free Run #Atten: 30 dB IFGain:Low **Auto Tune** Mkr1 24.467 5 GHz -52.943 dBm 10 dB/div Ref 20.00 dBm Center Frea 13.750000000 GHz Start Freq 2.500000000 GHz Stop Freq 25.000000000 GHz **CF Step** 2.250000000 GHz <u>Auto</u> Freq Offset 0 Hz Start 2.50 GHz #Res BW 100 kHz Stop 25.00 GHz Sweep 2.152 s (30000 pts) #VBW 300 kHz Test_Graph_802.11g_ANT1_2462_6Mbps_Higher Band Emissions

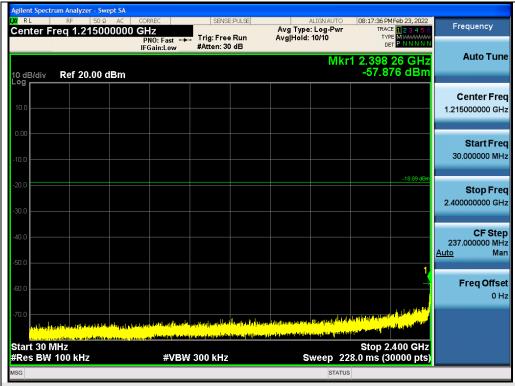




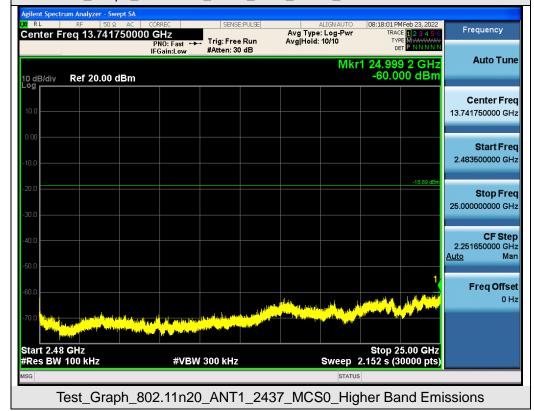
Test_Graph_802.11n20_ANT1_2412_MCS0_Lower Band Emissions



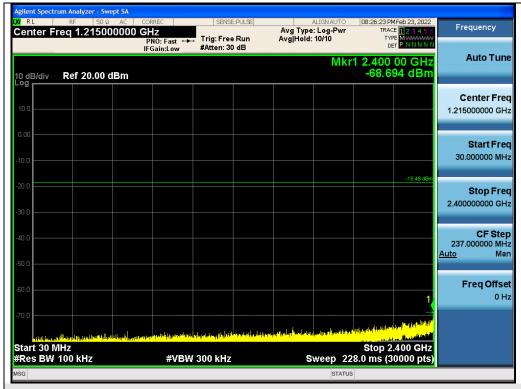




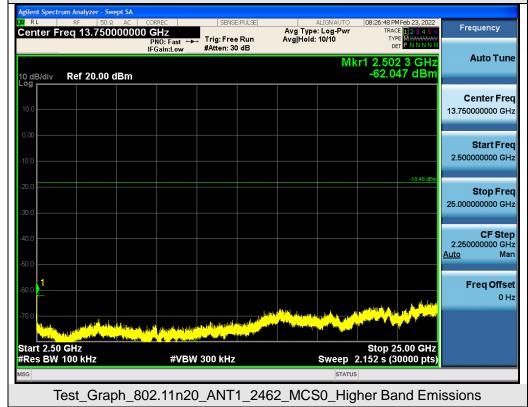
Test_Graph_802.11n20_ANT1_2437_MCS0_Lower Band Emissions



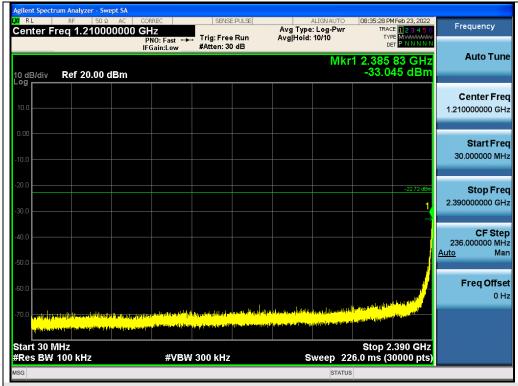




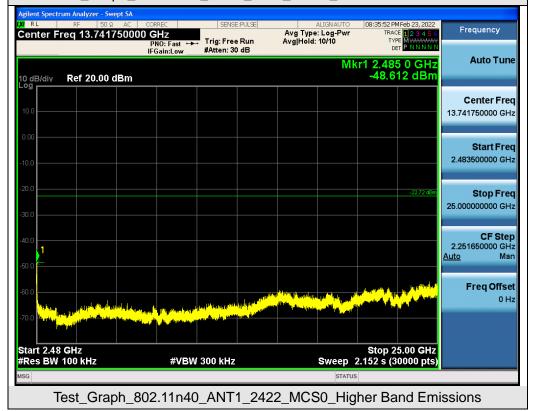
Test_Graph_802.11n20_ANT1_2462_MCS0_Lower Band Emissions



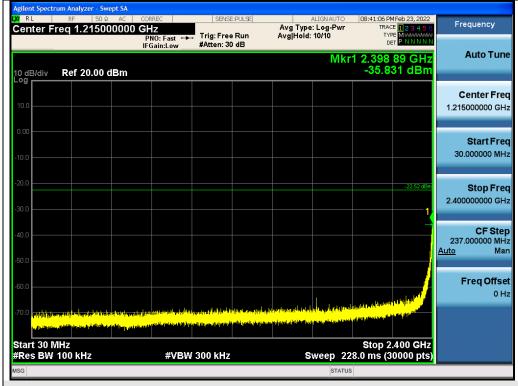




Test_Graph_802.11n40_ANT1_2422_MCS0_Lower Band Emissions



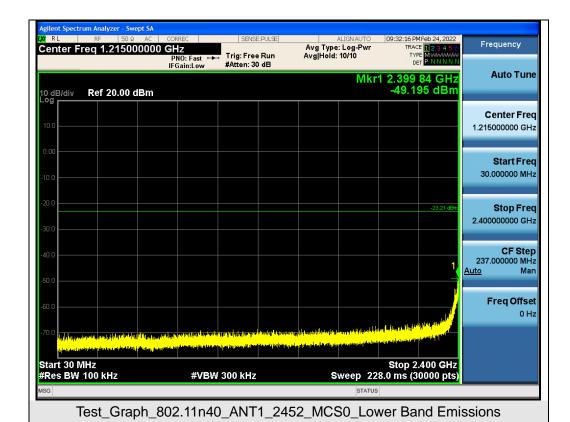




Test_Graph_802.11n40_ANT1_2437_MCS0_Lower Band Emissions





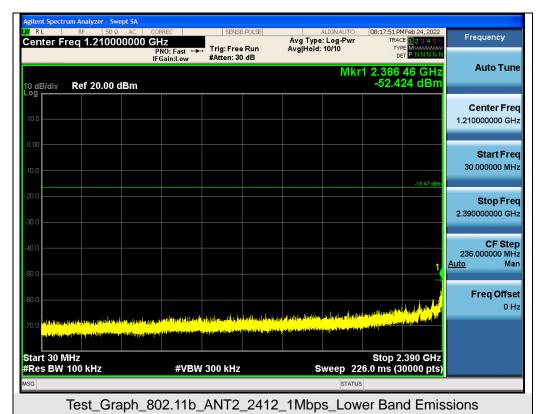


ent Spectrum Analyzer - Swept SA Frequency Avg Type: Log-Pwi Avg|Hold: 10/10 Center Freq 13.750000000 GHz Trig: Free Run #Atten: 30 dB IFGain:Low **Auto Tune** Mkr1 2.503 0 GHz -46.364 dBm 10 dB/div Ref 20.00 dBm Center Frea 13.750000000 GHz Start Freq 2.500000000 GHz Stop Freq 25.000000000 GHz **CF Step** 2.250000000 GHz <u>Auto</u> Freq Offset 0 Hz Start 2.50 GHz #Res BW 100 kHz Stop 25.00 GHz Sweep 2.152 s (30000 pts) #VBW 300 kHz

Test_Graph_802.11n40_ANT1_2452_MCS0_Higher Band Emissions

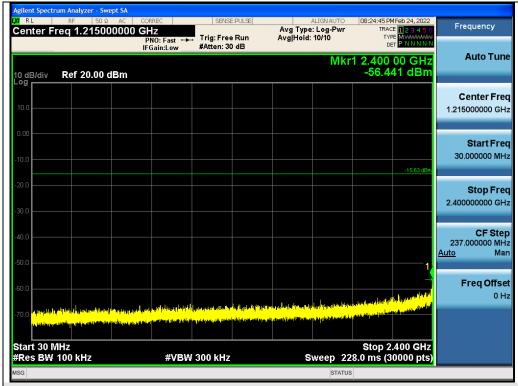
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gilent Spectrum Analyzer - Swept SA Frequency Avg Type: Log-Pwi Avg|Hold: 10/10 Center Freq 13.741750000 GHz Trig: Free Run #Atten: 30 dB IFGain:Low **Auto Tune** Mkr1 24.522 6 GHz -54.413 dBm 10 dB/div Ref 20.00 dBm Center Frea 13.741750000 GHz Start Freq 2.483500000 GHz Stop Freq 25.000000000 GHz CF Step 2.251650000 GHz <u>Auto</u> Freq Offset 0 Hz Start 2.48 GHz #Res BW 100 kHz Stop 25.00 GHz Sweep 2.152 s (30000 pts) #VBW 300 kHz Test_Graph_802.11b_ANT2_2412_1Mbps_Higher Band Emissions

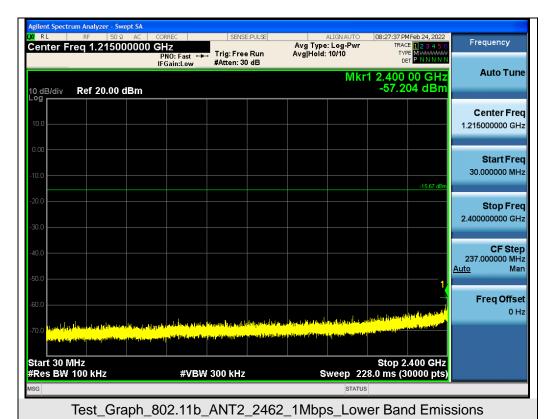




Test_Graph_802.11b_ANT2_2437_1Mbps_Lower Band Emissions







gilent Spectrum Analyzer - Swept SA Frequency Avg Type: Log-Pwi Avg|Hold: 10/10 Center Freq 13.750000000 GHz Trig: Free Run #Atten: 30 dB IFGain:Low **Auto Tune** Mkr1 24.940 0 GHz -53.914 dBm 10 dB/div Ref 20.00 dBm Center Frea 13.750000000 GHz Start Freq 2.500000000 GHz Stop Freq 25.000000000 GHz **CF Step** 2.250000000 GHz <u>Auto</u> Freq Offset 0 Hz Start 2.50 GHz #Res BW 100 kHz Stop 25.00 GHz Sweep 2.152 s (30000 pts) #VBW 300 kHz Test_Graph_802.11b_ANT2_2462_1Mbps_Higher Band Emissions