

FCC Test Report

Report No.: AGC11034220304FE05

FCC ID : 2AYHE-2204B

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: WiFi IP Camera

BRAND NAME : Reolink

MODEL NAME : Reolink Argus Eco

APPLICANT : Reolink Innovation Limited

DATE OF ISSUE : Mar. 26, 2022

STANDARD(S)

REPORT VERSION

TEST PROCEDURE(S)

: V1.0

FCC Part 15.247

Attestation of Global Compliance (Shenzhen) Co., Ltd





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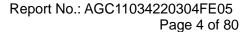
REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes	
V1.0	/	Mar. 26, 2022	Valid	Initial Release	



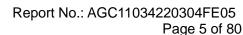
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1. VERIFICATION OF CONFORMITY

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	Reolink Argus Eco			
Date of test	Mar. 11, 2022~Mar. 26, 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.

Prepared By	Foler zhan			
	Eder Zhan (Project Engineer)	Mar. 26, 2022		
Reviewed By	Calin.	Liu		
	Calvin Liu (Reviewer)	Mar. 26, 2022		
Approved By	Max Zha	ing		
	Max Zhang Authorized Officer	Mar. 26, 2022		



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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:15.95dBm; IEEE 802.11g:14.88dBm;			
Output Fower (Average)	IEEE 802.11n(HT20):14.73dBm; IEEE 802.11n(HT40):14.67dBm			
Output Power (Peak)	IEEE 802.11b:18.43dBm; IEEE 802.11g:22.36dBm;			
Output I Ower (I eak)	IEEE 802.11n(HT20):22.30dBm; IEEE 802.11n(HT40):22.36dBm			
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	F16C15 V120			
Software Version	V1.0			
Antenna Designation	External antenna (Comply with requirements of the FCC part 15.203)			
Antenna Gain	2dBi			
Power Supply	DC 5V 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	NCBPS NDBPS		BPS		ata Mbps) nsGl		
					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-2204B** 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.

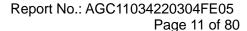


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3. MEASUREMENT UNCERTAINTY

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)

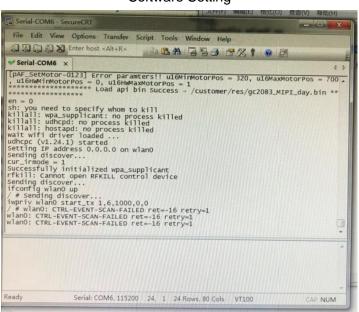
Transmit by 802.11n (40MHz) with Date rate (13.5/27/40.5/54/81/108/121.5/135)

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

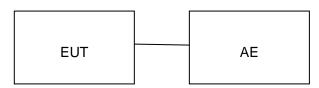


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5. SYSTEM TEST CONFIGURATION

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	Reolink Argus Eco	2AYHE-2204B	EUT
2	USB Cable	N/A	N/A	AE
3	Lanyard	N/A	N/A	AE

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

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 11, 2021	May 10, 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	Apr. 14, 2021	Apr. 13, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Nov. 17, 2021	Nov. 16, 2022
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 21, 2022	Mar. 20, 2023
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 19, 2021	Sep. 18, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2021	Jan. 07, 2023
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A



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7. OUTPUT POWER

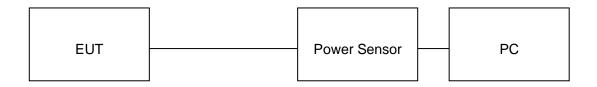
7.1. MEASUREMENT PROCEDURE

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					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
	2412	15.62	18.09	≤30	Pass
802.11b	2437	15.95	18.43	≤30	Pass
	2462	15.00	17.64	≤30	Pass
802.11g	2412	14.44	21.98	≤30	Pass
	2437	14.88	22.36	≤30	Pass
	2462	13.93	21.01	≤30	Pass
	2412	14.31	21.70	≤30	Pass
802.11n20	2437	14.73	22.30	≤30	Pass
	2462	13.65	20.75	≤30	Pass
802.11n40	2422	14.67	22.36	≤30	Pass
	2437	14.48	22.15	≤30	Pass
	2452	14.63	21.51	≤30	Pass



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8. BANDWIDTH

8.1. MEASUREMENT PROCEDURE

6dB bandwidth:

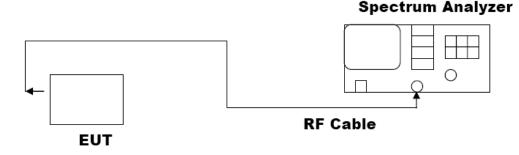
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW≥3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

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)

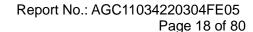




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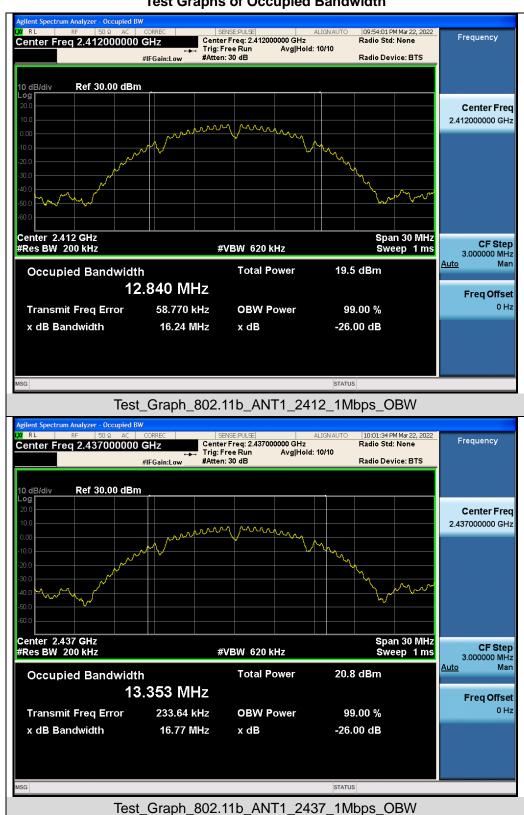
8.3. LIMITS AND MEASUREMENT RESULTS

Test Data of Occupied Bandwidth and DTS Bandwidth					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
	2412	12.840	8.074	≥0.5	Pass
802.11b	2437	13.353	8.567	≥0.5	Pass
	2462	12.937	8.293	≥0.5	Pass
802.11g	2412	16.388	15.098	≥0.5	Pass
	2437	16.648	15.707	≥0.5	Pass
	2462	16.453	13.196	≥0.5	Pass
	2412	17.446	15.105	≥0.5	Pass
802.11n20	2437	17.661	16.324	≥0.5	Pass
	2462	17.426	13.562	≥0.5	Pass
802.11n40	2422	35.984	35.093	≥0.5	Pass
	2437	36.308	35.722	≥0.5	Pass
	2452	35.026	20.105	≥0.5	Pass





Test Graphs of Occupied Bandwidth



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OBW Power

Test_Graph_802.11g_ANT1_2412_6Mbps_OBW

x dB

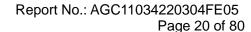
99.00 %

-26.00 dB

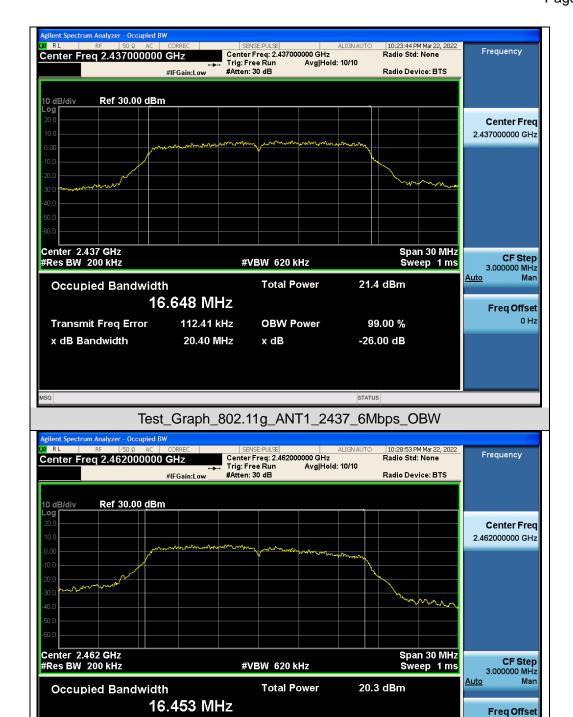
14.163 kHz

19.80 MHz

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OBW Power

Test_Graph_802.11g_ANT1_2462_6Mbps_OBW

x dB

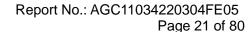
99.00 %

-26.00 dB

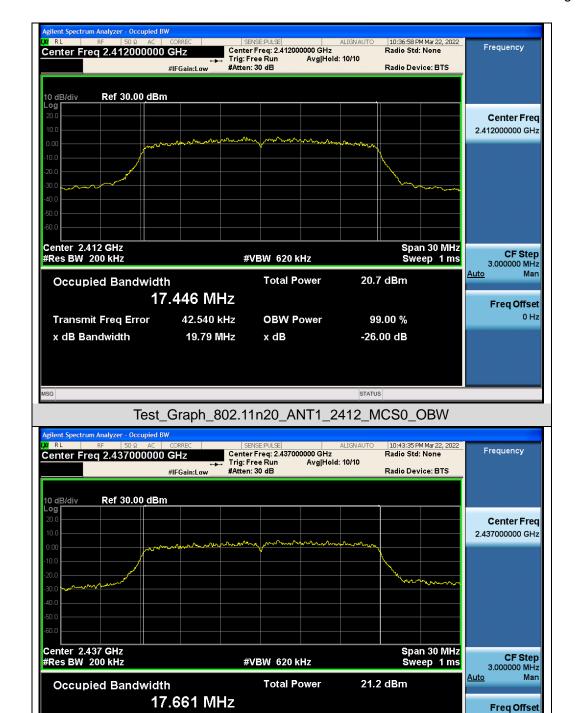
-258.37 kHz

19.93 MHz

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







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OBW Power

Test_Graph_802.11n20_ANT1_2437_MCS0_OBW

x dB

99.00 %

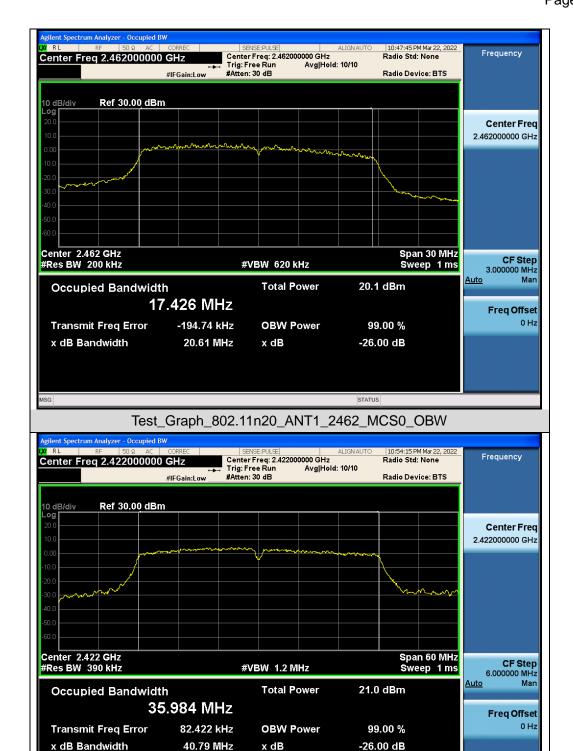
-26.00 dB

120.88 kHz

20.26 MHz

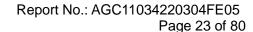
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



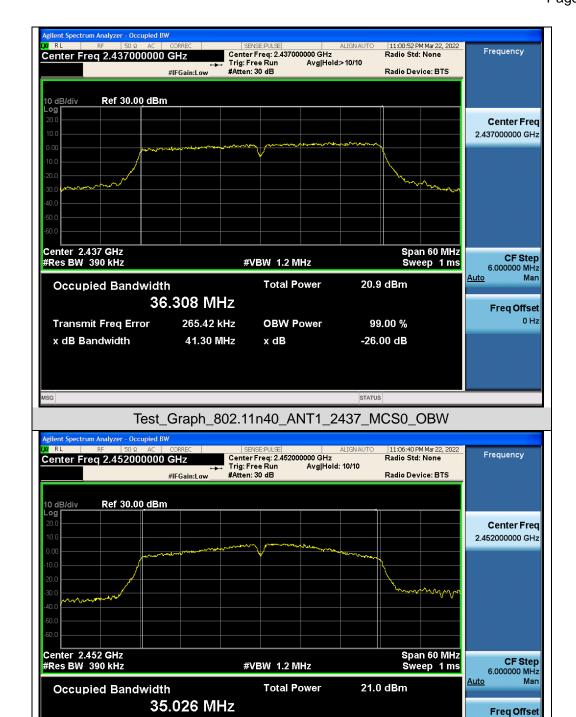


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Test Graph 802.11n40 ANT1 2422 MCS0 OBW







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OBW Power

Test_Graph_802.11n40_ANT1_2452_MCS0_OBW

x dB

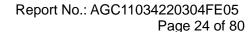
99.00 %

-26.00 dB

-38.327 kHz

38.98 MHz

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Test Graphs of DTS Bandwidth



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OBW Power

Test_Graph_802.11g_ANT1_2412_6Mbps_DTSBW

x dB

99.00 %

-6.00 dB

16.262 MHz

6.683 kHz

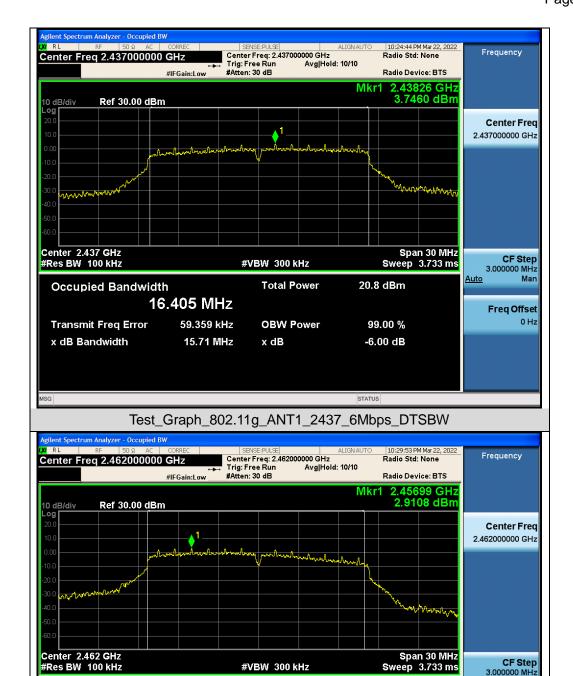
15.10 MHz

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

Auto

Freq Offset 0 Hz





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Total Power

OBW Power

Test_Graph_802.11g_ANT1_2462_6Mbps_DTSBW

x dB

19.8 dBm

99.00 %

-6.00 dB

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

Occupied Bandwidth

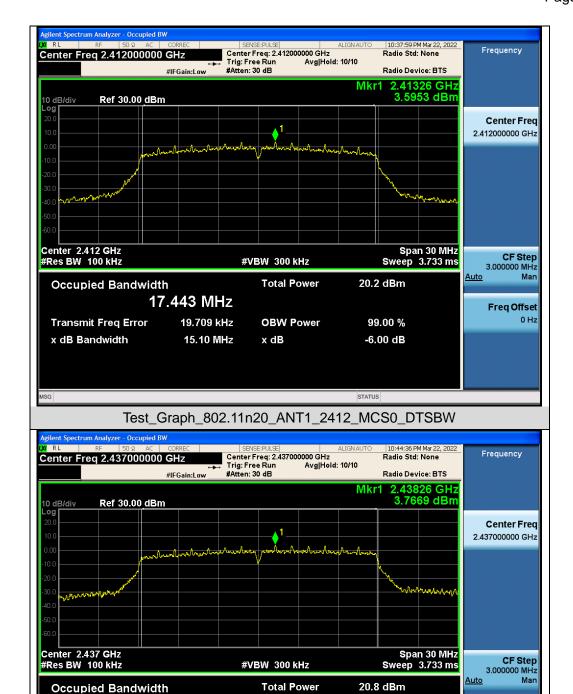
Transmit Freq Error x dB Bandwidth

16.190 MHz

-183.49 kHz

13.20 MHz





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OBW Power

Test Graph 802.11n20 ANT1 2437 MCS0 DTSBW

x dB

99.00 %

-6.00 dB

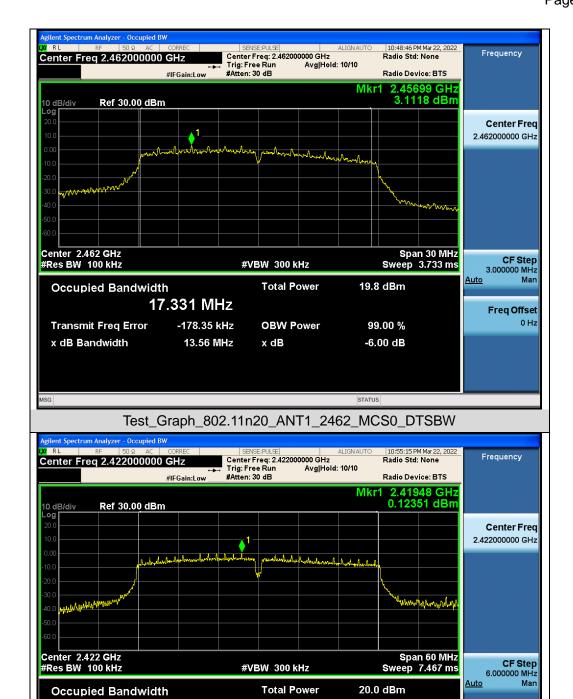
17.588 MHz

67.565 kHz

16.32 MHz

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OBW Power

Test Graph 802.11n40 ANT1 2422 MCS0 DTSBW

x dB

99.00 %

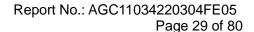
-6.00 dB

35.804 MHz

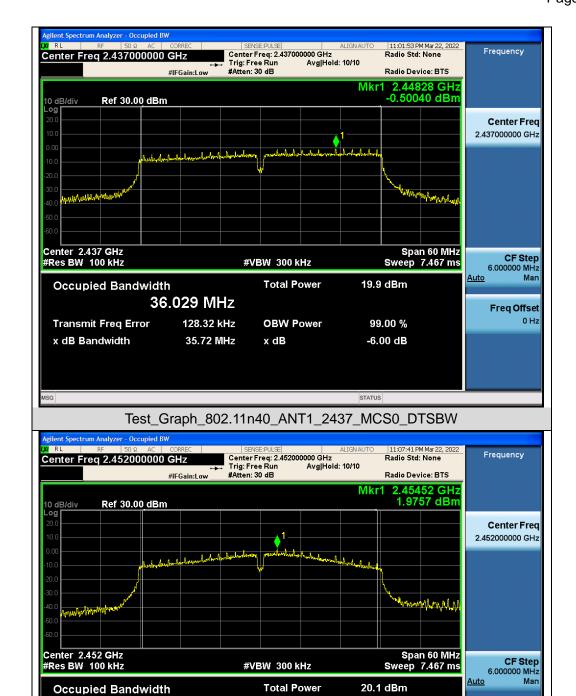
-851 Hz

35.09 MHz

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OBW Power

Test Graph 802.11n40 ANT1 2452 MCS0 DTSBW

x dB

99.00 %

-6.00 dB

35.008 MHz

-63.224 kHz

20.10 MHz

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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.

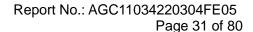
9.3. MEASUREMENT EQUIPMENT USEDJN

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

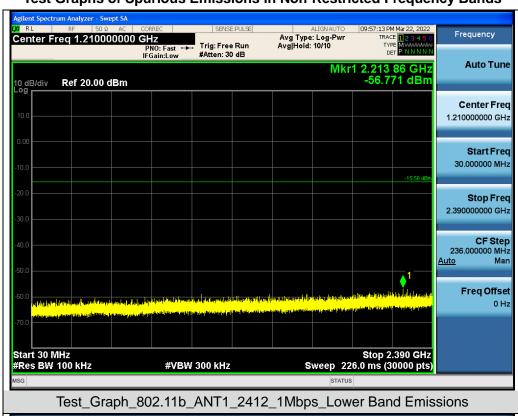
LIMITS AND MEASUREMENT RESULT				
Applicable Limite	Measurement Result			
Applicable Limits	Test Data	Criteria		
In any 100 KHz Bandwidth Outside the	At least -20dBc than the limit			
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS		
intentional radiator is operating, the radio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

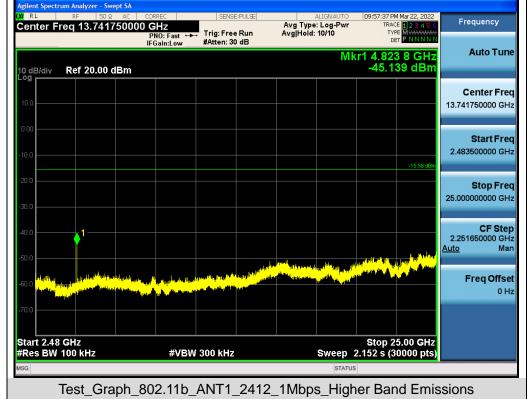
Note: The limits reference level is according to the test plot of -6dB bandwidth.



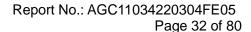


Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands

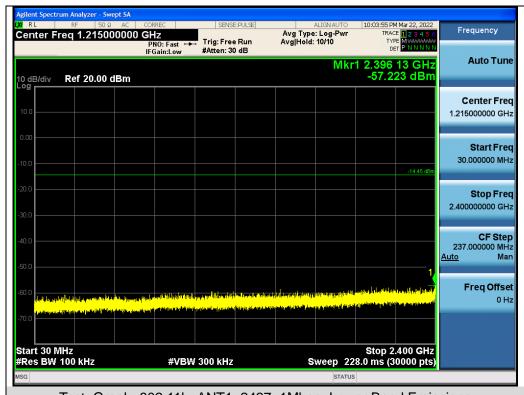


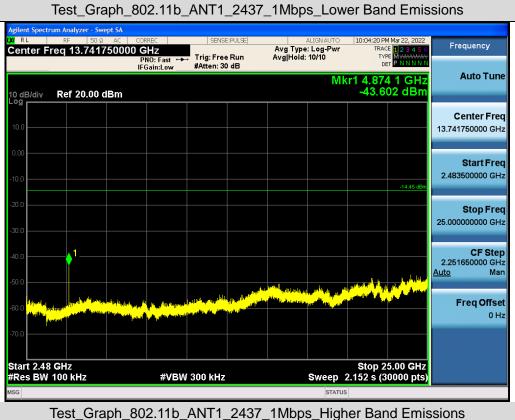


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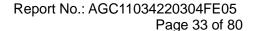




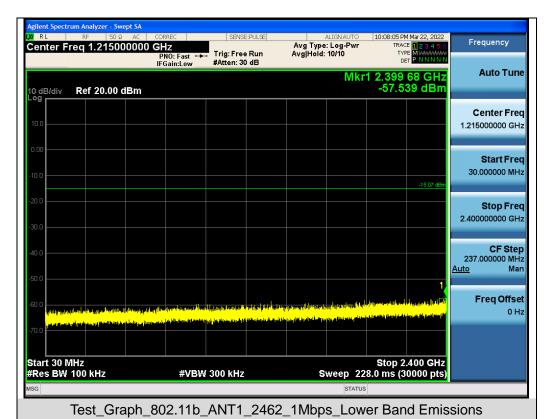




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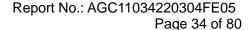




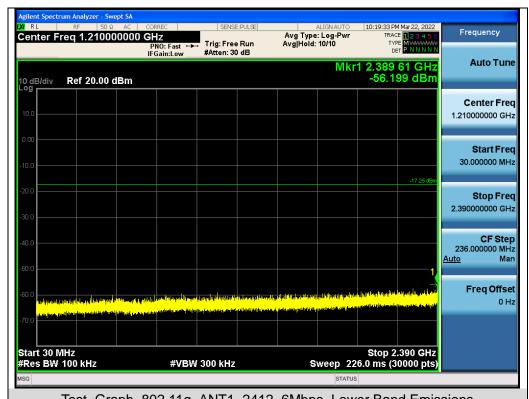
gilent Spectrum Analyzer - Swept SA Frequency Avg Type: Log-Pwi Avg|Hold: 10/10 Center Freq 13.750000000 GHz Trig: Free Run #Atten: 30 dB IFGain:Low **Auto Tune** Mkr1 24.072 2 GHz -46.240 dBm 10 dB/div Ref 20.00 dBm Center Frea 13.750000000 GHz Start Freq 2.500000000 GHz Stop Freq 25.000000000 GHz **CF 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

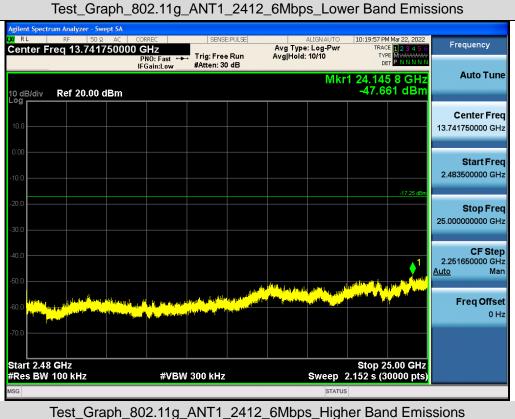
Test_Graph_802.11b_ANT1_2462_1Mbps_Higher Band Emissions

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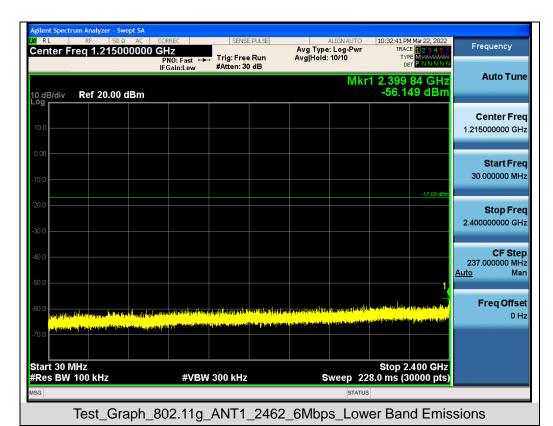






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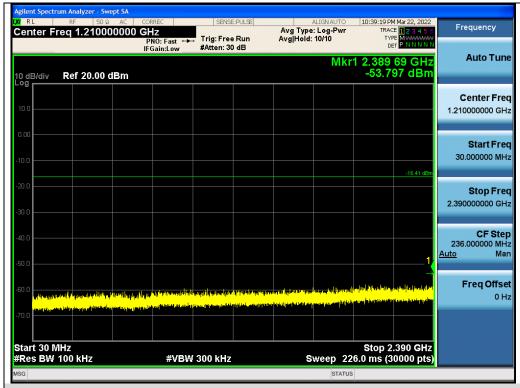




Test_Graph_802.11g_ANT1_2462_6Mbps_Higher Band Emissions

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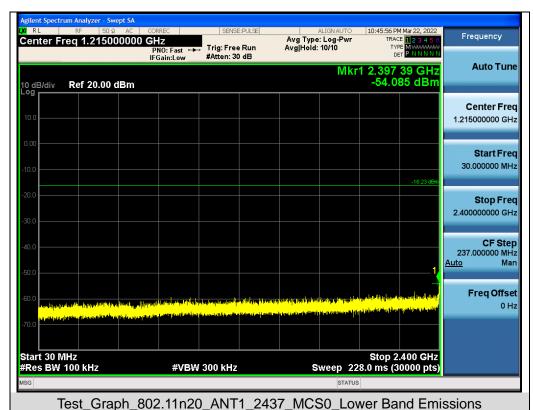


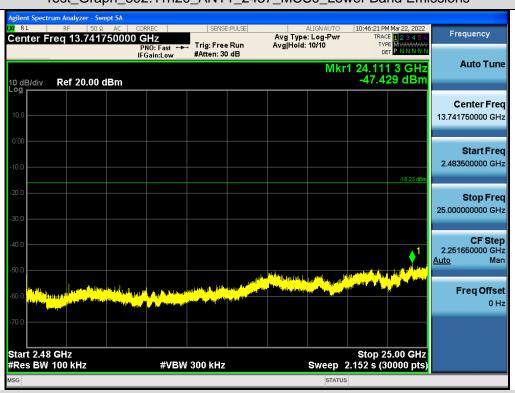








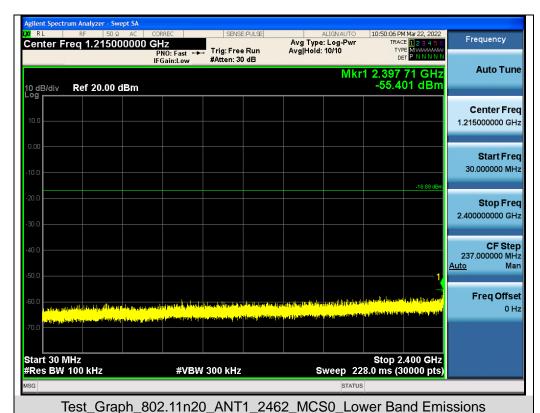




Test_Graph_802.11n20_ANT1_2437_MCS0_Higher Band Emissions

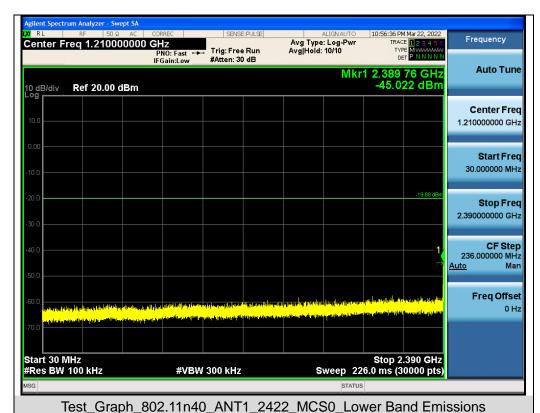
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.











Agilent Spectrum Analyzer - Swept SA

(X) RL RF 50 Ω AC CORREC SENSE PULSE ALIGNAUTO 10:57:00 PM Mar 22, 2022

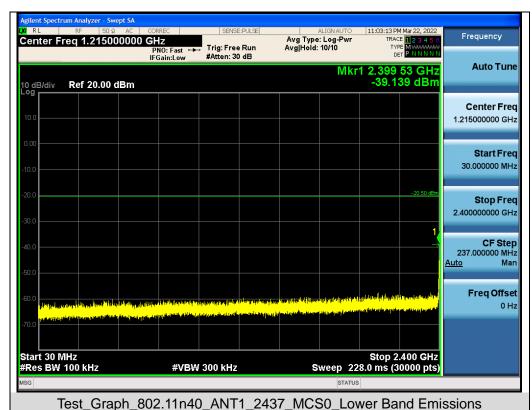
Center Freq 13.741750000 GHz

PNO: Fast - PNO: Fas



Test_Graph_802.11n40_ANT1_2422_MCS0_Higher Band Emissions



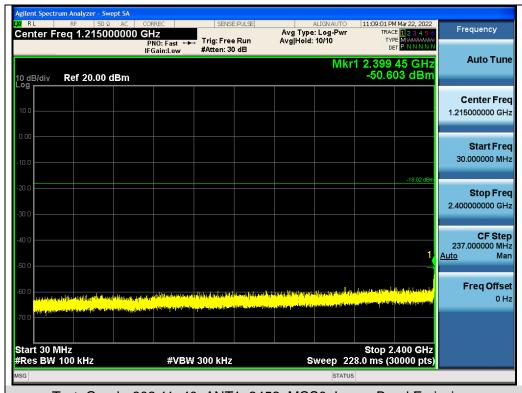


gilent Spectrum Analyzer - Swept SA Frequency Avg Type: Log-Pwi Avg|Hold: 10/10 Center Freq 13.741750000 GHz Trig: Free Run #Atten: 30 dB IFGain:Low **Auto Tune** Mkr1 2.484 3 GHz -44.337 dBm 10 dB/div Ref 20.00 dBm Center Frea 13.741750000 GHz Start Freq 2.483500000 GHz Stop Freq 25.000000000 GHz CF 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

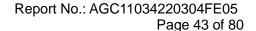
Test_Graph_802.11n40_ANT1_2437_MCS0_Higher Band Emissions

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



Test_Graph_802.11g_ANT1_2412_6Mbps_Lower Band Edge Emissions

Stop 2.42200 GHz Sweep 4.000 ms (30000 pts)

CF Step

Man

3.200000 MH

Freq Offset 0 Hz

<u>Auto</u>

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#VBW 300 kHz

2.413 258 4 GHz 2.400 000 0 GHz

Start 2.39000 GHz #Res BW 100 kHz





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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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 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 method of PKPSD in the ANSI C63.10 (2013) item 11.10 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer to Section 8.2.

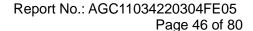
10.3 MEASUREMENT EQUIPMENT USED

Refer to Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

	Test Data of Conducted Output Power Spectral Density								
Test Mode	Test Channel (MHz)	Power density (dBm/20kHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail				
	2412	0.609	-7.63		Pass				
802.11b	2437	0.846	-7.393	- \$8	Pass				
	2462	-0.010	-8.249	- \$8	Pass				
	2412	-1.856	-10.095	- ₹8	Pass				
802.11g	2437	-2.042	-10.281		Pass				
	2462	-2.402	-10.641	- ₹8	Pass				
	2412	-1.448	-9.687	- ≪8	Pass				
802.11n20	2437	-1.906	-10.145	- \$8	Pass				
	2462	-2.115	-10.354	- \$8	Pass				
	2422	-4.973	-13.212	- ₹8	Pass				
802.11n40	2437	-5.827	-14.066	- \$8	Pass				
	2452	-2.746	-10.985	- ₹8	Pass				

Note: Power density(dBm/3kHz) = Power density(dBm/20kHz) - 10*log(20/3).





Test Graphs of Conducted Output Power Spectral Density



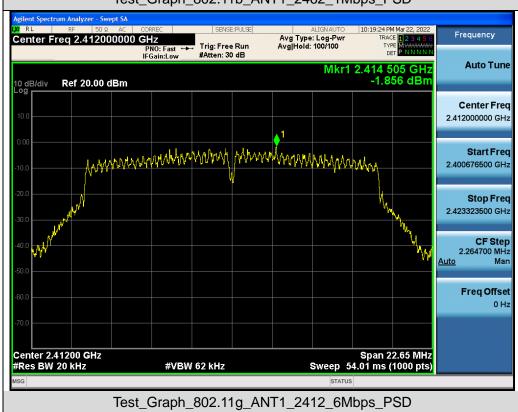
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test_Graph_802.11b_ANT1_2437_1Mbps_PSD

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





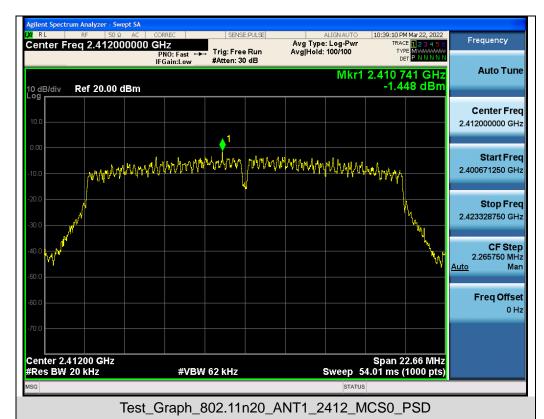










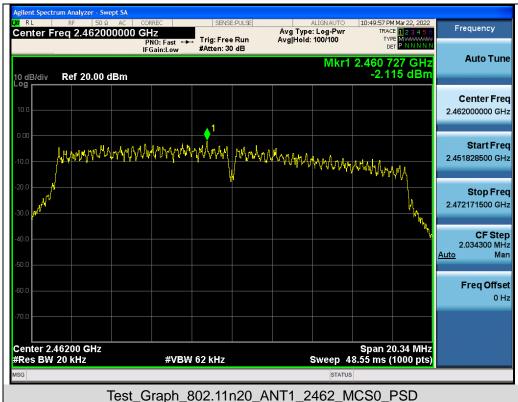


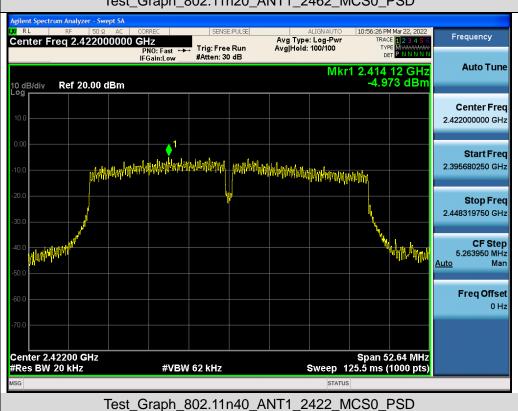


Test_Graph_802.11n20_ANT1_2437_MCS0_PSD

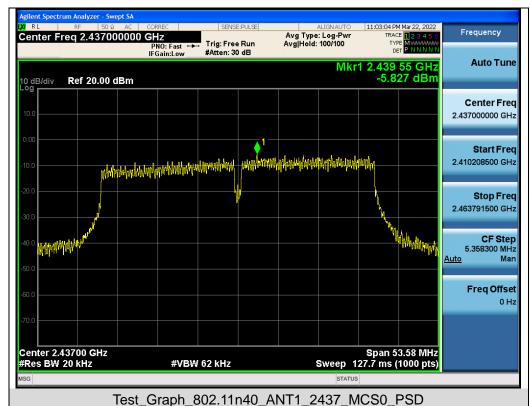
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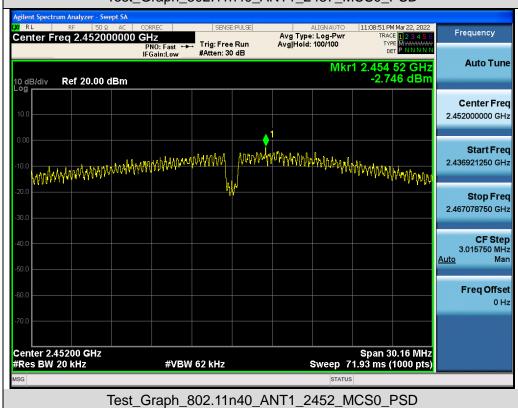














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11. RADIATED EMISSION

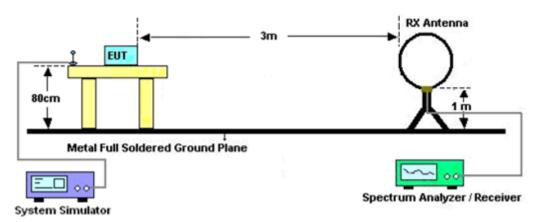
11.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

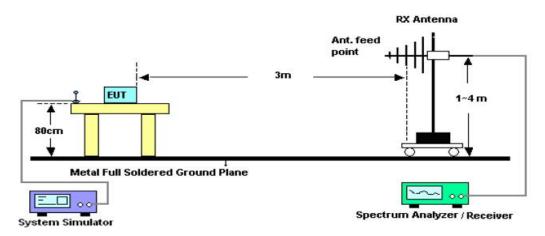


11.2. TEST SETUP

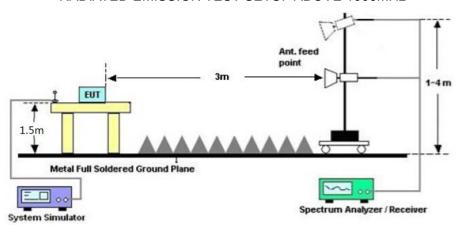
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz





Report No.: AGC11034220304FE05

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11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission.

the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

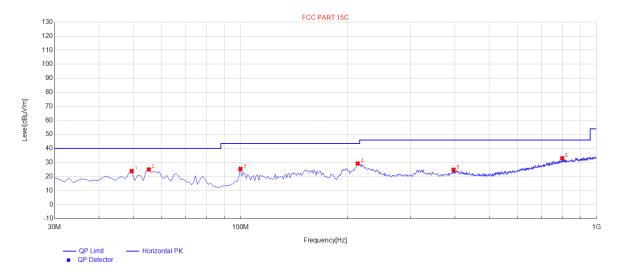
Radiated emission below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.



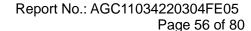
Radiated emission from 30MHz to 1000MHz

EUT	WiFi IP Camera	Model Name	Reolink Argus Eco
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHz	Antenna	Horizontal



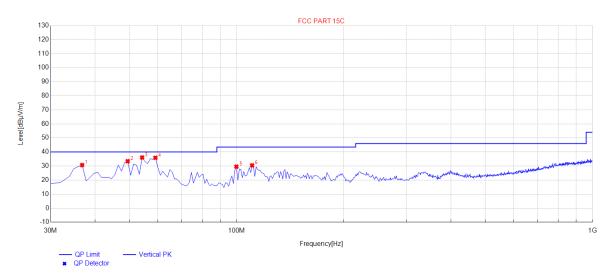
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	49.4	23.92	11.61	40.00	16.08	100	13	Horizontal
2	55.22	25.08	11.27	40.00	14.92	100	210	Horizontal
3	99.84	25.41	11.30	43.50	18.09	100	260	Horizontal
4	213.33	29.30	11.53	43.50	14.20	100	109	Horizontal
5	396.66	24.88	17.19	46.00	21.12	100	58	Horizontal
6	801.15	33.07	26.51	46.00	12.93	100	348	Horizontal

RESULT: PASS





EUT	WiFi IP Camera	Model Name	Reolink Argus Eco
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHz	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.79	30.67	10.73	40.00	9.33	100	22	Vertical
2	49.4	33.44	11.61	40.00	6.56	100	273	Vertical
3	54.25	36.08	11.35	40.00	3.92	100	231	Vertical
4	59.1	35.88	10.98	40.00	4.12	100	218	Vertical
5	99.84	29.55	11.30	43.50	13.95	100	74	Vertical
6	110.51	30.48	12.47	43.50	13.02	100	67	Vertical

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin= Limit-Measurement.

- 2. The "Factor" value can be calculated automatically by software of measurement system.
- 3. All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.



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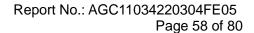
Radiated emission above 1GHz

EUT	WiFi IP Camera	Model Name	Reolink Argus Eco
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHz	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type			
4824.000	48.53	0.08	48.61	74.00	-25.39	peak			
4824.000	41.77	0.08	41.85	54.00	-12.15	AVG			
7236.000	49.13	2.21	51.34	74.00	-22.66	peak			
7236.000	39.28	2.21	41.49	54.00	-12.51	AVG			
Remark:	1					ı			
actor = Anter	nna Factor + Cable	e Loss – Pre-	amplifier.						

EUT	WiFi IP Camera	Model Name	Argus Eco
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHz	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.000	49.17	0.08	49.25	74.00	-24.75	peak
4824.000	42.35	0.08	42.43	54.00	-11.57	AVG
7236.000	48.83	2.21	51.04	74.00	-22.96	peak
7236.000	38.77	2.21	40.98	54.00	-13.02	AVG
Pomork:						
temark:						
actor = Anter	nna Factor + Cabl	e Loss – Pre-a	amplifier.			





EUT	WiFi IP Camera	Model Name	Reolink Argus Eco
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHz	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type			
4874.000	47.39	0.14	47.53	74.00	-26.47	peak			
4874.000	40.22	0.14	40.36	54.00	-13.64	AVG			
7311.000	46.35	2.36	48.71	74.00	-25.29	peak			
7311.000	37.12	2.36	39.48	54.00	-14.52	AVG			
Remark:									
Factor = Antenna Factor + Cable Loss – Pre-amplifier.									

EUT	WiFi IP Camera	Model Name	Reolink Argus Eco
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHz	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.000	48.05	0.14	48.19	74.00	-25.81	peak
4874.000	41.34	0.14	41.48	54.00	-12.52	AVG
7311.000	47.39	2.36	49.75	74.00	-24.25	peak
7311.000	38.03	2.36	40.39	54.00	-13.61	AVG
emark:						
	nna Factor + Cable	Loss – Pre-	amplifier.			



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EUT	WiFi IP Camera	Model Name	Reolink Argus Eco
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHz	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4924.000	48.69	0.22	48.91	74.00	-25.09	peak
4924.000	40.37	0.22	40.59	54.00	-13.41	AVG
7386.000	43.33	2.64	45.97	74.00	-28.03	peak
7386.000	37.94	2.64	40.58	54.00	-13.42	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	WiFi IP Camera	Model Name	Reolink Argus Eco
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHz	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4924.000	49.28	0.22	49.50	74.00	-24.50	peak
4924.000	41.47	0.22	41.69	54.00	-12.31	AVG
7386.000	45.39	2.64	48.03	74.00	-25.97	peak
7386.000	38.27	2.64	40.91	54.00	-13.09	AVG
Remark:						
actor = Anter	nna Factor + Cabl	e Loss – Pre-	amplifier.			

RESULT: PASS

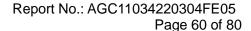
Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.

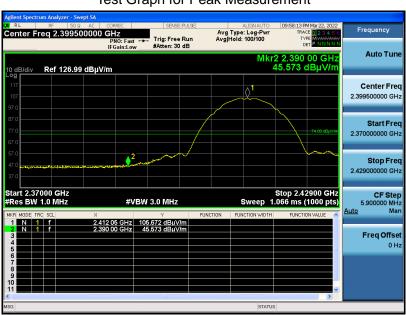




Test result for band edge emission at restricted bands

EUT	WiFi IP Camera	Model Name	Reolink Argus Eco
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHz	Antenna	Horizontal

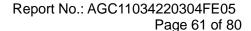
Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS





EUT	WiFi IP Camera	Model Name	Reolink Argus Eco
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHz	Antenna	Vertical

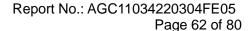
Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS





EUT	WiFi IP Camera	Model Name	Reolink Argus Eco
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS