FCC Test Report

Product Name ： ROG Rapture GT-AX6000 Dual-band Gaming Router/
ROG Rapture GT-AC5400 Dual-band Gaming Router

Trade Name ： ASUS

Model No. ： GT-AX6000, GT-AC5400

FCC ID. ： MSQ-RTAX2E00

Applicant ： ASUSTeK COMPUTER INC.

Address ： 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan

Date of Receipt ： Sep. 28, 2018 ~ Dec. 05, 2018

Issued Date ： Dec. 22, 2018

Report No. ： 18B0158R-RFUSP59V00

Report Version ： V1.0

Testing Laboratory
3024

The test results relate only to the samples tested.
The test report shall not be reproduced except in full without the written approval of DEKRA Testing and Certification Co., Ltd..

Test Report Certification

Issued Date : Dec. 22, 2018
Report No. : 18B0158R-RFUSP59V00

Product Name	:	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Applicant	:	ASUSTeK COMPUTER INC.
Address	:	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
Manufacturer	:	ASUSTeK COMPUTER INC.
Model No.	:	GT-AX6000, GT-AC5400
Trade Name	:	ASUS
FCC ID.	:	MSQ-RTAX2E00
EUT Voltage	:	AC 100-240V, 50-60Hz
Testing Voltage	:	AC 120V/60Hz
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart E Section 15.407: 2017 ANSI C63.10: 2013 KDB 789033 D02 V02r01 KDB 662911 D01 V02r01
Laboratory Name	:	Hsin Chu Laboratory
Address	:	No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 310, Taiwan, R.O.C. TEL: +886-3-582-8001 / FAX: +886-3-582-8958
Test Result	:	Complied

Documented By :

(Demi Chang / Senior Engineering Adm. Specialist)

Tested By :

(Rueyyan Lin / Senior Engineer)

Approved By :

(Roy Wang / Director)

Revision History

Report No.	Version	Description	Issued Date
1880136R-RFUSP63V00	V1.0	Initial issue of report	Oct. 05, 2018
18B0158R-RFUSP59V00	V1.0	This is variant report for below changes: 1. The GT-AX6000 model have added fans. 2. The GT-AX6000, GT-AC5400 models have added second source of transformer. 3. Add one adapter that model name is AD2087320. 4. Add 5G 802.11ax TX Beamforming mode. 5. Add 2.4G NSS 2 TX Beamforming mode by customer requirements. 6. Change the location of antenna number 2, 3, 6 and 7, verify that radiation emission and bandedge but not affect the test results. 7. The antenna brand of "Whayu" that antenna list number 2, 3, 6, 7 and 8 has add second source. 8. The antenna brand of "Walsin" that antenna list number 2, 3, 6 and 7 has add second source. 9. The GT-AX6000 model have changed heatsink type on top side. 10. Add 5G Band 2/Band 3 11. Add bandwidth of 160MHz function. For above changes, we verify conducted emission, radiated emission, bandedge, bandwidth, output power, power density tested and EUT Photo.	Dec. 22, 2018

TABLE OF CONTENTS

Description Page

1. General Information 6
1.1. EUT Description 6
1.2. Test Mode 15
1.3. Tested System Details 17
1.4. Configuration of tested System 17
1.5. EUT Exercise Software 17
1.6. Test Facility 18
1.7. List of Test Equipment 19
1.8. Duty Cycle 22
1.9. Uncertainty 44
2. Conducted Emission 45
2.1. Test Setup 45
2.2. Limits 45
2.3. Test Procedure 46
2.4. Test Specification 46
2.5. Test Result 47
3. 26dB & 99% & DTS Bandwidth 51
3.1. Test Setup 51
3.2. Limits 51
3.3. Test Procedure 51
3.4. Test Result 52
4. Maximum conducted output power 300
4.1. Test Setup 300
4.2. Limits 300
4.3. Test Procedure 301
4.4. Test Result 302
5. Maximum power spectral density 2030
5.1. Test Setup 2030
5.2. Limits 2031
5.3. Test Procedure 2031
5.4. Test Result 2032

6. Radiated Emission 2224
6.1. Test Setup 2224
6.2. Limits 2225
6.3. Test Procedure 2226
6.4. Test Result 2227
7. Band Edge 2397
7.1. Test Setup 2397
7.2. Limits 2397
7.3. Test Procedure 2399
7.4. Test Result 2400
Attachment 1 2924
Test Setup Photograph 2924
Attachment 2 2929
EUT External Photograph 2929
Attachment 3 2940
EUT Internal Photograph 2940

1. General Information

1.1. EUT Description

Product Name	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router	
Trade Name	ASUS	
Model No.	GT-AX6000, GT-AC5400	
Frequency Range/ Channel Number	IEEE 802.11a/n/ac/ax (20MHz)	5180~5240MHz / 4 Channels 5260~5320MHz / 4 Channels 5500~5730MHz / 12 Channels 5745~5825MHz / 5 Channels
	IEEE 802.11n/ac/ax (40MHz)	5190~5230MHz / 2 Channels 5270~5310MHz / 2 Channels 5510~5730MHz / 6 Channels 5755~5795MHz / 2 Channels
	IEEE 802.11ac/ax (80MHz)	5210~5210MHz / 1 Channel 5290~5290MHz / 1 Channel 5530~5730MHz / 3 Channel 5775~5775MHz / 1 Channel
	IEEE 802.11ac (80+80MHz)	5210MHz (Channel 42) 5290MHz (Channel 58)
	IEEE 802.11ac (160MHz)	5570MHz / 1 Channel
Type of Modulation	IEEE 802.11a/n/ac/ax	Orthogonal Frequency Division Multiplexing
Data Speed	IEEE 802.11a	6, 9, 18, 24, 36, 48, 54Mbps
	IEEE 802.11n	Support a subset of the combination of GI, MCS 0~MCS 31 and bandwidth defined in 802.11n
	IEEE 802.11ac	Support a subset of the combination of GI, MCS 0~MCS 11 and bandwidth defined in 802.11ac
	IEEE 802.11ax	Support a subset of the combination of GI, MCS 0~MCS 11 and bandwidth defined in 802.11ax

Antenna Information	
Antenna Type	Dipole Antenna
Antenna Gain	ANT 0: 1.9dBi (5G) ANT 1: 2.7dBi (5G) ANT 2: 2.5dBi (5G) ANT 3: 2.3dBi (5G) ANT 4: 2.5dBi (5G) ANT 5: 1.6dBi (5G) ANT 6: 1.8dBi (5G) ANT 8: 3.3dBi (5G)

Accessories Information	
Power Adapter	ASUS, ADP-65DW Y I/P : 100-240V~50-60Hz 1.5A O/P : 19V ⎓ 3.42A Cable Out: Non-Shielded, 2m
Power Adapter	ASUS, ADP-65DW B I/P : 100-240V~50-60Hz 1.5A O/P : 19V ⎓ 3.42a Cable Out: Non-Shielded, 2m
Power Adatper	PI, AD2087320 I/P : 100-240V~ 50/60Hz 1.5A O/P : 19V ⎓ 3.42A Cable Out: Non-Shielded, 2.2m
Antenna 1	9 Pcs

Antenna List	Brand Name	Part Number	Gain
Ant 0	Whayu	C660-510433-A	1.9 dBi (2.4G) 1.9 dBi (5G)
Ant 1	Whayu	C660-510434-A	1.2 dBi (2.4G) 2.7 dBi (5G)
Ant 2	Whayu	C660-510435-A C660-510442-A (*)	2.2 dBi (2.4G) 2.5 dBi (5G) 2.0 dBi (2.4G)(*) 2.3 dBi (5G)(*)
Ant 3	Whayu	C660-510436-A C660-510443-A (*)	2.3 dBi (5G) 2.2 dBi (5G)(*)
Ant 4	Whayu	C660-510437-A	2.5 dBi (5G)
Ant 5	Whayu	C660-510438-A	1.6 dBi (5G)
Ant 6	Whayu	C660-510439-A C660-510444-A (*)	1.8 dBi (5G) 1.6 dBi (5G)(*)
Ant 7	Whayu	C660-510440-A C660-510445-A (*)	1.9 dBi (2.4G) 1.7 dBi (2.4G)(*)
Ant 8	Whayu	C660-510441-A C660-510455-A (*)	3.3 dBi (5G) 2.9 dBi (5G)(*)

Note: The mark of (*) means second source for this CIIPC product, the second source antenna gain is lower than original source.

Antenna 2	9 Pcs

Antenna List	Brand Name	Part Number	Gain
Ant 0	Walsin	RFDPA163312IMLB701	1.75 dBi (2.4G) 1.70 dBi (5G)
Ant 1	Walsin	RFDPA163306IMLB701	1.01 dBi (2.4G) 2.70 dBi (5G)
Ant 2	Walsin	RFDPA163304IMLB701 RFDPA163311IMLB701(*)	2.12 dBi (2.4G) 2.03 dBi (5G)
Ant 3	Walsin	RFDPA163305IM5B701 RFDPA163309IM5B701(*)	2.25 dBi (5G)
Ant 4	Walsin	RFDPA163308IM5B701	2.34 dBi (5G)
Ant 5	Walsin	RFDPA163314IM5B701	1.55 dBi (5G)
Ant 6	Walsin	RFDPA163319IM5B701 RFDPA163326IM5B701(*)	1.80 dBi (5G)
Ant 7	Walsin	RFDPA163311IMAB701 RFDPA163320IMAB701(*)	1.89 dBi (2.4G)
Ant 8	Walsin	RFMTA181703IM5B701	3.22 dBi (5G)

Note: The mark of (*) means second source for this CIIPC product, the second source antenna gain is same with original source.

ANT-TX / RX & Bandwidth

ANT-TX / RX	TX				RX			
Mode/ Channel Bandwidth	20MHz	40MHz	80MHz	160MHz	20MHz	40MHz	80MHz	160MHz
IEEE802.11a	✓				✓			
IEEE802.11n	✓	✓			✓	✓		
IEEE802.11ac	✓	✓	✓	✓	✓	✓	✓	✓
IEEE802.11ax	✓	✓	✓	✓	✓	✓	✓	✓

Frequency	Modulation	Support Mode	ANT-TX
5GHz	802.11a	CDD	8TX
	802.11n(HT20)	CDD/BF (NSS1/NSS2)	8TX
	802.11n(HT40)	CDD/BF (NSS1/NSS2)	8TX
	802.11ac(VHT20)	CDD/BF (NSS1/NSS2)	8TX
	802.11ac(VHT40)	CDD/BF (NSS1/NSS2)	8TX
	802.11ac(VHT80)	CDD/BF (NSS1/NSS2)	8TX
	802.11ac(VHT80+80)	CDD (NSS1/NSS2)	4TX+4TX
	802.11ac(VHT160)	CDD (NSS1/NSS2)	4TX+4TX
	802.11ax(HE20)	CDD/BF (NSS1/NSS2)	8TX
	802.11ax(HE40)	CDD/BF (NSS1/NSS2)	8TX
	802.11ax(HE80)	CDD/BF (NSS1/NSS2)	8TX
	802.11ax(HE80+80)	CDD (NSS1/NSS2)	4TX+4TX
	802.11ax(HE160)	CDD (NSS1/NSS2)	4TX+4TX

IEEE 802.11a/n/ac/ax (20MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz	48	5240 MHz
52	5260 MHz	56	5280 MHz	60	5300 MHz	64	5320 MHz
100	5500 MHz	104	5520 MHz	108	5540 MHz	112	5560 MHz
116	5580 MHz	120	5600 MHz	124	5620 MHz	128	5640 MHz
132	5660 MHz	136	5680 MHz	140	5700 MHz	144	5720 MHz
149	5745 MHz	153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825 MHz						

IEEE 802.11n/ac/ax (40MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	54	5270MHz	62	5310 MHz
102	5510 MHz	110	5550 MHz	118	5590MHz	126	5630 MHz
134	5670 MHz	142	5710 MHz	151	5755 MHz	159	5795 MHz

IEEE 802.11ac/ax (80MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz	106	5530 MHz	122	5610 MHz
138	5690 MHz	155	5775 MHz				

IEEE 802.11ac (160MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
114	5570 MHz						

Note:

1. This device including 2.4GHz b/g/n/ac/ax and 5GHz a/n/ac/ax transmitting and receiving functions.
2. Regards to the frequency band operation; the lowest、middle and highest frequency of channel were selected to perform the test, and then shown on this report.
3. These model names have following difference:

Equipment Name	ROG Rapture GT-AX6000 Dual-band Gaming Router	ROG Rapture GT-AC5400 Dual-band Gaming Router
Model Name	GT-AX6000	GT-AC5400
Difference	The different model names are for market purpose.	
	1. 10G fiber (SFP+port) 2. 10G copper (RJ45 port) 3. With fan.	1. 10G fiber (SFP+port) 2. Without fan.

4. The laptop compture was used to configure the EUT to continuoursly transmit at a specified output power in all channels with different modes and modulations schemes, testing software power setting as below.

Modulation	Channel	Power setting				
		Non BF NSS1	Non BF NSS2	BF NSS1	BF NSS2	BF NSS4
802.11a	52	7.0	--	--	--	--
	60	7.0	--	--	--	--
	64	7.0	--	--	--	--
	100	6.0	--	--	--	--
	116	7.0	--	--	--	--
	140	7.0	--	--	--	--
	144	7.0	--	--	--	--
802.11ac(VHT20)	52	7.5	10.5	7.5	10.5	12.0
	60	7.5	10.0	7.5	10.0	12.0
	64	7.5	10.5	7.5	10.5	12.5
	100	6.5	9.5	6.5	9.5	11.5
	116	7.0	10.0	7.0	10.0	12.0
	140	7.5	10.5	7.5	10.5	12.5
	144	7.5	10.5	7.5	10.5	12.5
802.11ac(VHT40)	54	10.5	13.5	9.0	12.0	14.0
	62	11.0	13.5	9.0	12.0	14.5
	102	9.5	12.5	8.5	11.0	13.5
	118	10.0	13.0	9.0	12.0	14.0
	134	10.5	13.5	9.0	12.0	14.0
	142	11.0	13.5	9.5	12.5	14.5
802.11ac(VHT80)	58	13.5	14.0	9.0	12.0	14.0
	106	12.0	13.0	8.0	11.0	13.0
	122	13.0	14.0	9.0	12.0	14.0
	138	13.5	14.0	9.5	12.0	14.0
802.11ac(VHT80+80)	50(42+58)	16.0	17.0	--	--	--
802.11ac(VHT160)	114	13.5	13.5	--	--	--

Modulation	Channel	Power setting				
		Non BF NSS1	Non BF NSS2	BF NSS1	BF NSS2	BF NSS4
802.11ax(HE20)	52	7.5	10.5	7.5	10.5	12.5
	60	7.5	10.5	7.5	10.5	12.5
	64	8.0	11.0	8.0	11.0	13.0
	100	7.0	10.0	7.0	10.0	11.5
	116	7.5	10.5	7.5	10.5	12.5
	140	7.5	10.5	7.5	10.5	12.5
	144	7.5	10.5	7.5	10.5	12.5
802.11ax(HE40)	54	10.5	13.5	9.0	12.0	14.0
	62	10.0	14.0	9.0	12.0	14.5
	102	10.0	12.5	8.5	11.0	13.5
	118	10.0	13.5	9.0	11.5	14.0
	134	10.0	13.5	9.0	12.0	14.0
	142	11.0	14.0	9.5	12.5	14.5
802.11ax(HE80)	58	13.0	14.0	9.0	12.0	14.5
	106	12.0	13.0	8.0	11.0	13.0
	122	13.5	14.0	9.0	12.0	14.0
	138	13.5	14.0	9.5	12.0	14.0
802.11ax(HE80+80)	50(42+58)	16.0	17.0	--	--	--
802.11ax(HE160)	114	13.5	13.5	--	--	--

1.2. Test Mode

DEKRA has verified the construction and function in typical operation. The preliminary tests were performed in different data rate, and to find the worst condition, which was shown in this test report. The following table is the final test mode.

Test Mode	Mode 1:TX_Beamforming_NSS1_ADP-65DW Y Mode 2:TX_Beamforming_NSS2_ADP-65DW Y Mode 3:TX_Beamforming_NSS4_ADP-65DW Y Mode 4:TX_AC5400_Tranformer 1_AD2087320 Mode 5:TX_AC5400_Tranformer 2_ADP-65DW Y Mode 6:TX_AC5400_Tranformer 2_ADP-65DW B Mode 7:TX_AC5400_Tranformer 2_AD2087320 Mode 8:TX_AX6000_add fan_Transformer 1_ADP-65DW Y Mode 9:TX_AX6000_add fan_Transformer 1_ADP-65DW B Mode 10:TX_AX6000_add fan_Transformer 1_AD2087320 Mode 11:TX_AX6000_add fan_Transformer 2_ADP-65DW Y Mode 12:TX_AX6000_add fan_Transformer 2_ADP-65DW B Mode 13:TX_AX6000_add fan_Transformer 2_AD2087320 Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y Mode 15:TX_Non Beamforming_NSS2_ADP-65DW Y Mode 16:TX_Non Beamforming_NSS4_ADP-65DW Y Mode 17:TX_Non Beamforming_NSS1_ ADP-65DW B Mode 18:TX_Non Beamforming_NSS1_ AD2087320

Test Items	Modulation	Channel	Result
Conducted Emission	11ac/ax(80MHz)	42/155	Complies
26dB & 99% & DTS Bandwidth Maximum conducted output power	a	52/60/64/ 100/116/140	Complies
	11ac/ax(20MHz)	52/60/64/ 100/116/140/144	Complies
	11ac/ax(40MHz)	54/62/ 102/118/134/142	Complies
	11ac/ax(80MHz)	58/106/122/138	Complies
	a	52/60/64/ 100/116/140/144	Complies
Maximum conducted output power	11ac/ax(20MHz)	52/60/64/ 100/116/140/144/149/157/ 165	Complies
	11ac/ax(40MHz)	38/46/54/62/ 102/118/134/142	Complies
	11ac/ax(80MHz)	42/58/106/122/138	Complies
	11ac(160MHz)	114	Complies
	a	52/60/64/ 100/116/140/144	Complies
Maximum power spectral density	11ac/ax(20MHz)	52/60/64/ 100/116/140/144/149/157/ 165	Complies
	11ac/ax(40MHz)	38/46/54/62/ 102/118/134/142	Complies
	11ac/ax(80MHz)	42/58/106/122/138	Complies
	11ac(160MHz)	114	Complies
	a	52/60/64/ 100/116/140/144	Complies
Radiated Emission	11ac/ax(20MHz)	52/60/64/100/116/140/144 /149/157/165	Complies
	11ac/ax(40MHz)	38/46/54/62/ 102/118/134/142	Complies
	11ac/ax(80MHz)	42/58/106/122/138	Complies
	11ac(160MHz)	114	Complies
Band Edge	a	52/60/64/ 100/116/140/144	Complies
	11ac/ax(20MHz)	52/60/64/100/116/140/144 /149/157/165	Complies
	11ac/ax(40MHz)	38/46/54/62/ 102/118/134/142	Complies
	11ac/ax(80MHz)	42/58/106/122/138	Complies
	11ac(160MHz)	114	Complies

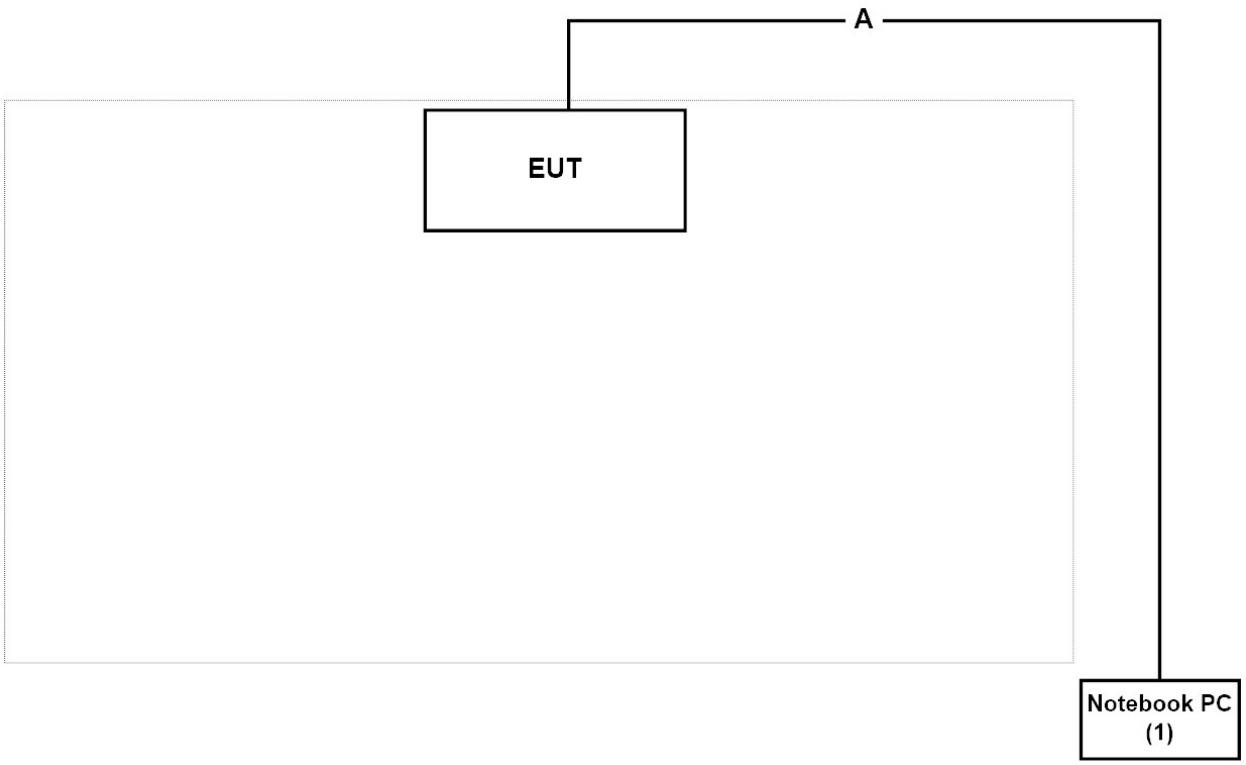
1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	Notebook PC	DELL	Precision M65	28G9NIS	DoC	Non-Shielded, 1.8m

1.4. Configuration of tested System

Connection Diagram



Signal Cable Type		Signal cable Description
A	LAN Cable	Non-Shielded, 2m

1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the Control program “QSPR” on the laptop.
3	Configure the test mode, the test channel, and the data rate.
4	Make the EUT to start the continuous transmitting.
5	Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual	Test Site
Temperature (°C)	FCC PART 15 E 15.407 Conducted Emission	15 - 35	20°C	3
Humidity (%RH)		25 - 75	50%RH	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 E 15.407 26dB & 99% & DTS Bandwidth	15 - 35	25°C	3
Humidity (%RH)		25 - 75	45%RH	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 E 15.407 Maximum conducted output power	15 - 35	25°C	3
Humidity (%RH)		25 - 75	65%RH	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 E 15.407 Maximum power spectral density	15 - 35	25°C	3
Humidity (%RH)		25 - 75	45%RH	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 E 15.407 Radiated Emission	15 - 35	25°C	2
Humidity (%RH)		25 - 75	45%RH	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 E 15.407 Band Edge	15 - 35	25°C	2
Humidity (%RH)		25 - 75	45%RH	
Barometric pressure (mbar)		860 - 1060	950-1000	

Note: Test Site information refers to Laboratory Information.

Laboratory Information

USA	**:**	**FCC Registration Number: TW3024**
Canada		**IC Registration Number: 22397-1 / 22397-2 / 22397-3**

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd. Web Site:
http://www.dekra.com.tw/english/about/certificates.aspx?bval=5
The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: http://www.dekra.com.tw/index_en.aspx

If you have any comments, Please don't hesitate to contact us. Our test sites as below:

1 No. 75-2, 3rd Lin, WangYe Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan (R.O.C.)
TEL: +886-3-592-8858 / FAX: +886-3-592-8859 E-Mail : info.tw@dekra.com

2 No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
TEL: +886-3-582-8001 / FAX: +886-3-582-8958 E-Mail : info.tw@dekra.com

3 No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
TEL: +886-3-582-8001 / FAX: +886-3-582-8958 E-Mail : info.tw@dekra.com

1.7. List of Test Equipment

Conducted Emission / SR2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2018/01/22	2019/01/21
Test Receiver	R&S	ESCS 30	836858/022	2018/03/30	2019/03/29
LISN	R&S	ENV216	100092	2018/07/23	2019/07/22

Occupied Bandwidth / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2018/06/26	2019/06/25
Spectrum Analyzer	Keysight	N9010B	MY57110159	2018/05/25	2019/05/24
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09

Maximum conducted output power / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2018/06/26	2019/06/25
Spectrum Analyzer	Keysight	N9010B	MY57110159	2018/05/25	2019/05/24
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09

Maximum power spectral density / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2018/06/26	2019/06/25
Spectrum Analyzer	Keysight	N9010B	MY57110159	2018/05/25	2019/05/24
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09

Radiated Emission / CB2-H, CB4-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2018/11/05	2019/11/04
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09
Signal Analyzer	R&S	FSV40	101435	2018/07/19	2019/07/18
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2018/03/05	2019/03/04
Bilog Antenna	Teseq	CBL6112D	23191	2018/06/26	2019/06/25
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2018/06/01	2019/05/31
Horn Antenna	Schwarzbeck	BBHA 9120D	01656	2018/10/17	2019/10/16
Horn Antenna	Schwarzbeck	BBHA 9170	202	2018/01/31	2019/01/30
Horn Antenna	Schwarzbeck	BBHA 9170	203	2018/03/01	2019/02/28
Pre-Amplifier	Dekra	AP-025C	201801236	2018/02/26	2019/02/25
Pre-Amplifier	EMCI	EMC11830I	980366	2018/01/08	2019/01/07
Pre-Amplifier	Dekra	AP-400C	201801231	2018/12/05	2019/12/04
Band Reject Filter	Micro-Tronics	BRM50716	G089	2018/04/11	2019/04/10
Band Reject Filter	Micro-Tronics	BRM50716	G068	2018/04/11	2019/04/10
Coaxial Cable	Huber+Suhner	SF104_SF104_SF104_SF104 (16.0m)	CB2-H	2018/08/21	2019/08/20
Coaxial Cable	Suhner	SF104_SF106_SF104_SF102 (23.5m)	CB4_1	2018/08/21	2019/08/20

Band Edge / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2018/11/05	2019/11/04
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09
Signal Analyzer	R&S	FSV40	101435	2018/07/19	2019/07/18
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2018/03/05	2019/03/04
Bilog Antenna	Teseq	CBL6112D	23191	2018/06/26	2019/06/25
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2018/06/01	2019/05/31
Horn Antenna	Schwarzbeck	BBHA 9120D	01656	2018/10/17	2019/10/16
Horn Antenna	Schwarzbeck	BBHA 9170	202	2018/01/31	2019/01/30
Horn Antenna	Schwarzbeck	BBHA 9170	203	2018/03/01	2019/02/28
Pre-Amplifier	Dekra	AP-025C	201801236	2018/02/26	2019/02/25
Pre-Amplifier	EMCI	EMC11830I	980366	2018/01/08	2019/01/07
Pre-Amplifier	Dekra	AP-400C	201801231	2018/12/05	2019/12/04
Band Reject Filter	Micro-Tronics	BRM50716	G089	2018/04/11	2019/04/10
Band Reject Filter	Micro-Tronics	BRM50716	G068	2018/04/11	2019/04/10
Coaxial Cable	Huber+Suhner	SF104_SF104_SF104_SF104 (16.0m)	CB2-H	2018/08/21	2019/08/20

1.8. Duty Cycle

CDD Mode_1SS

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor(dB) linear voltage	Duty Factor (dB) Power	1/T Minimum VBW (kHz)
11A	2.085	2.205	94.56%	0.486051	0.24	0.480
VHT20	5.410	5.700	94.91%	0.453552	0.23	0.185
VHT40	5.390	5.630	95.74%	0.378393	0.19	0.186
VHT80	5.390	5.870	91.82%	0.740987	0.37	0.186
HE20	5.440	5.640	96.45%	0.313604	0.16	0.184
HE40	5.420	5.660	95.76%	0.376343	0.19	0.185
HE80	5.400	5.700	94.74%	0.469622	0.23	0.185

Note:

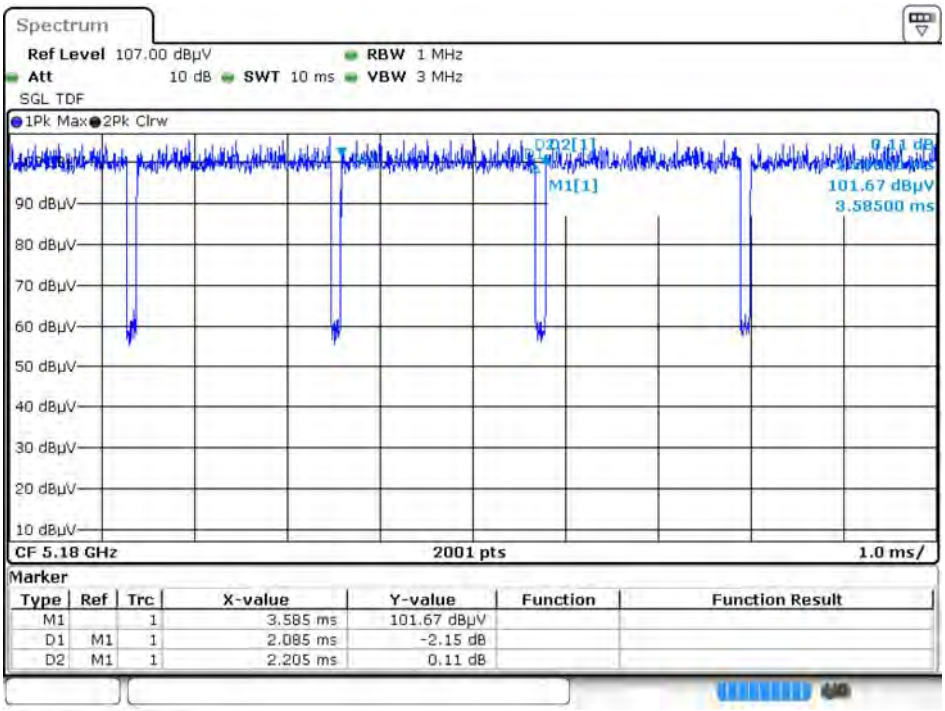
Offset = 20 log(1/duty cycle)

Accotding to KDB 789033

If power averaging (rms) mode was used in step (iv) above, the correction factor is 10 log (1/x), where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels.

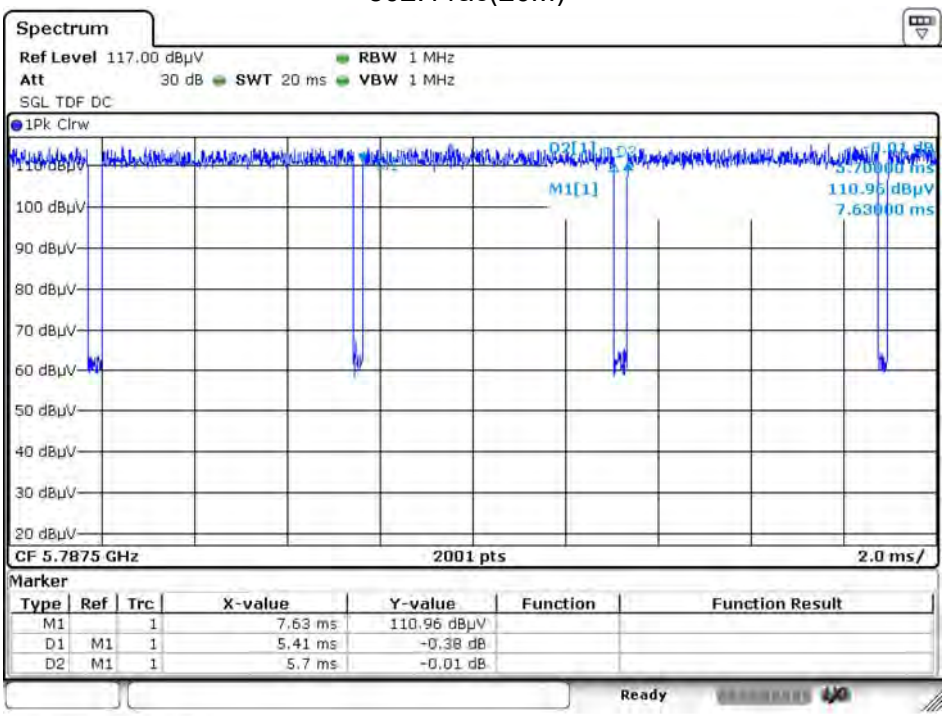
If linear voltage averaging mode was used in step (iv) above, the correction factor is 20 log (1/x), where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.

802.11a



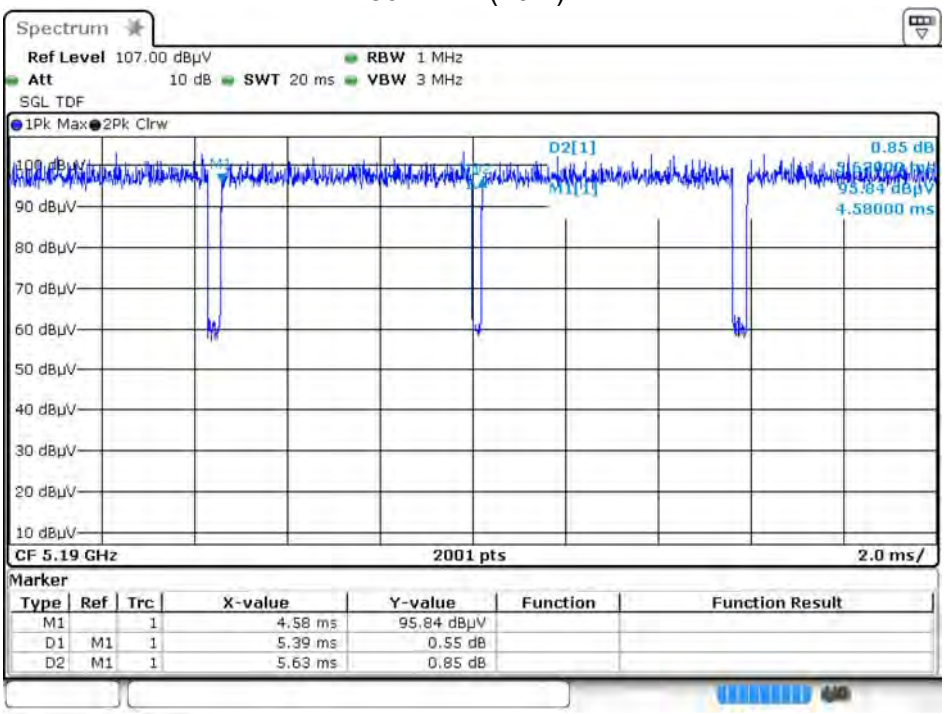
Date: 6.AUG.2018 08:48:59

802.11ac(20M)



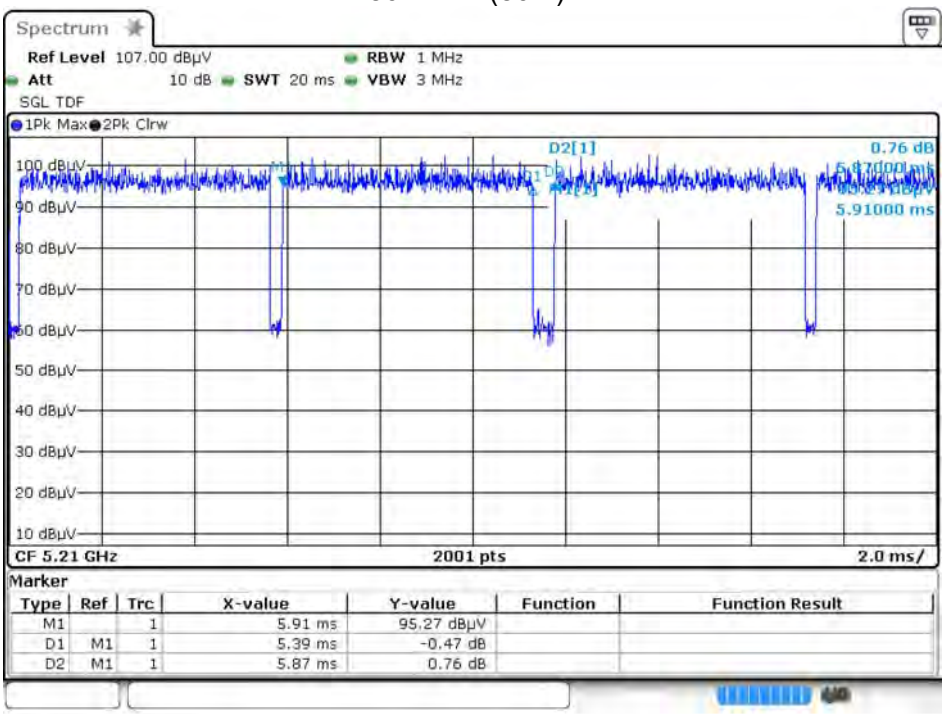
Date: 3.AUG.2018 10:33:29

802.11ac(40M)



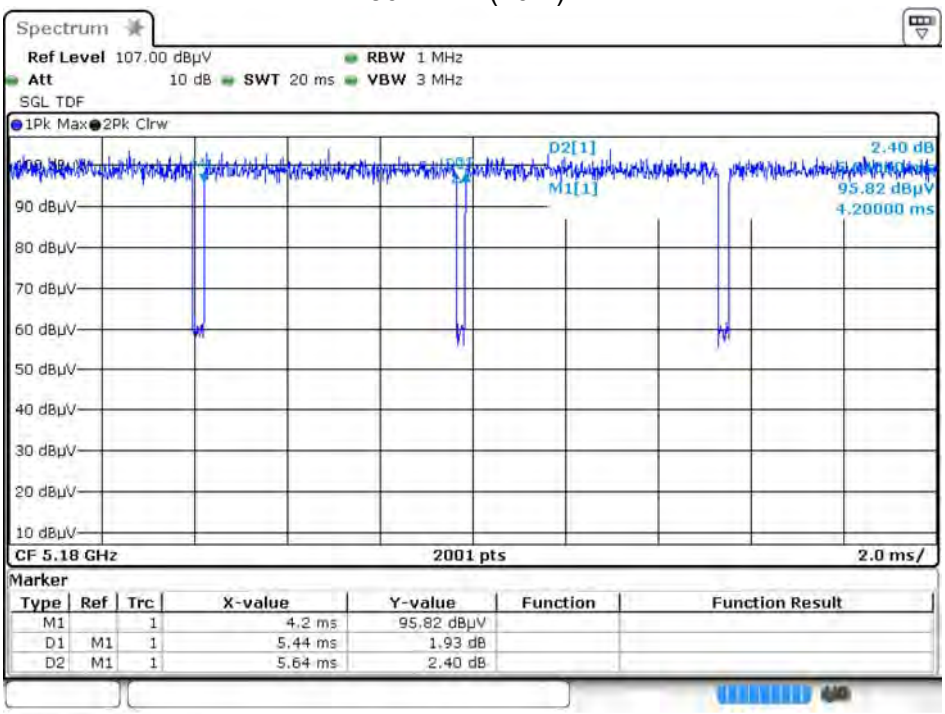
Date: 6.AUG.2018 08:59:56

802.11ac(80M)



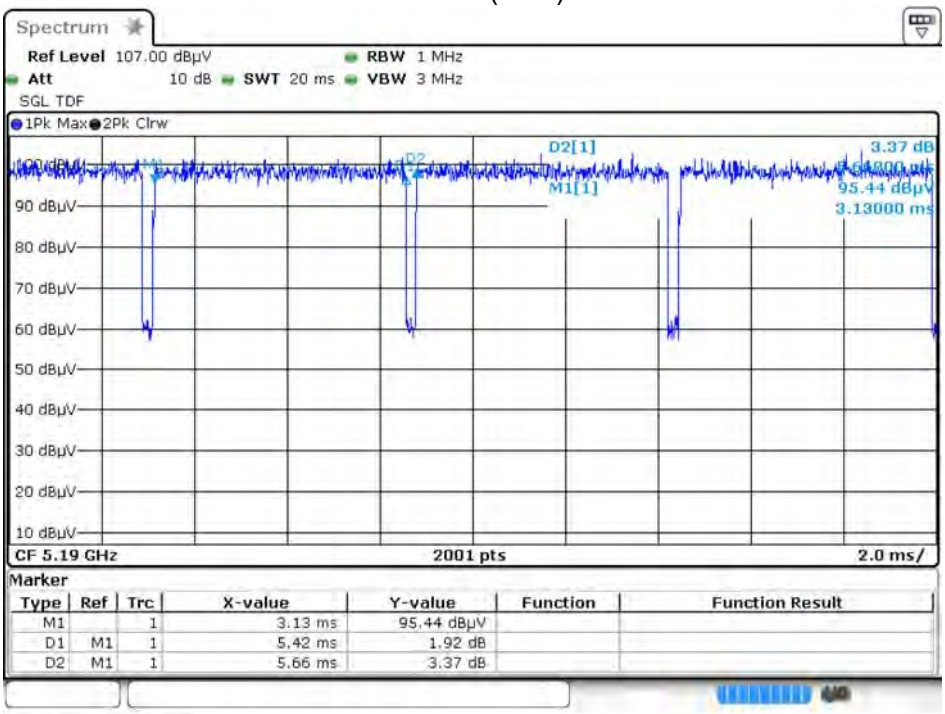
Date: 6.AUG.2018 09:09:20

802.11ax(20M)



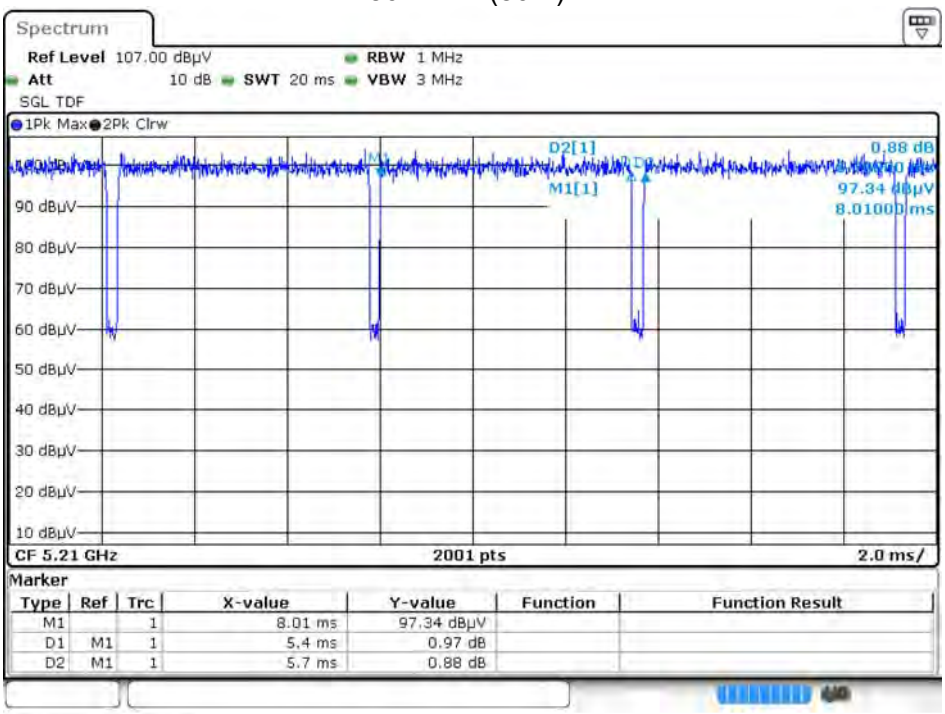
Date: 6.AUG.2018 09:02:44

802.11ax(40M)



Date: 6.AUG.2018 09:05:30

802.11ax(80M)



Date: 6.AUG.2018 09:12:28

CDD Mode_2SS

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor(dB) linear voltage	Duty Factor (dB) Power	1/T Minimum VBW (kHz)
VHT20	5.410	5.700	94.91%	0.453552	0.23	0.185
VHT40	5.390	5.630	95.74%	0.378393	0.19	0.186
VHT80	5.390	5.870	91.82%	0.740987	0.37	0.186
HE20	5.440	5.640	96.45%	0.313604	0.16	0.184
HE40	5.420	5.660	95.76%	0.376343	0.19	0.185
HE80	5.400	5.700	94.74%	0.469622	0.23	0.185

Note:

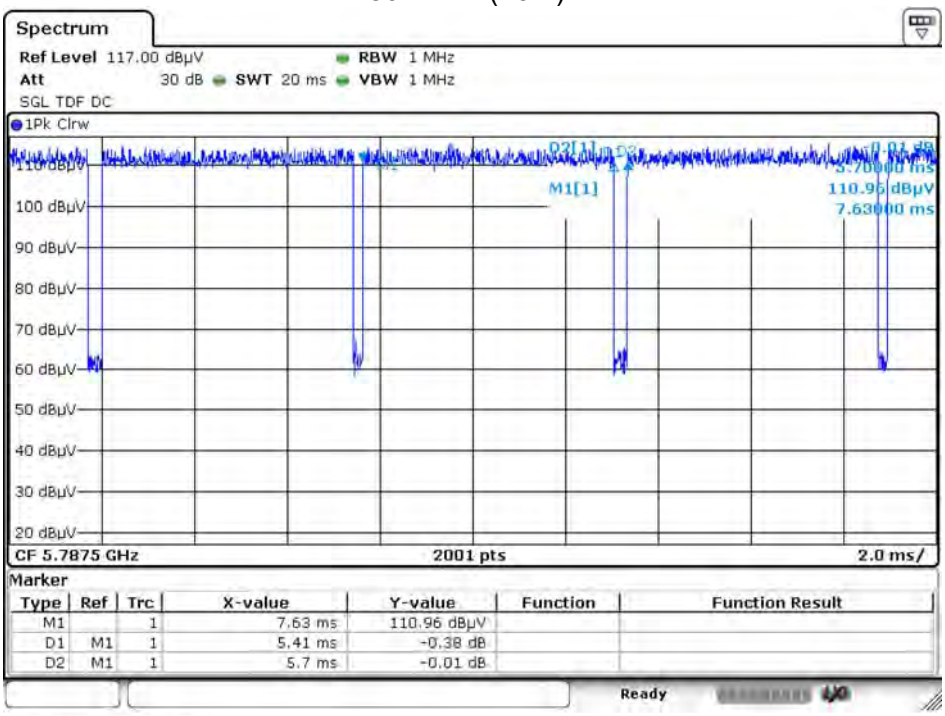
Offset = 20 log(1/duty cycle)

Accotding to KDB 789033

If power averaging (rms) mode was used in step (iv) above, the correction factor is 10 log (1/x), where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels.

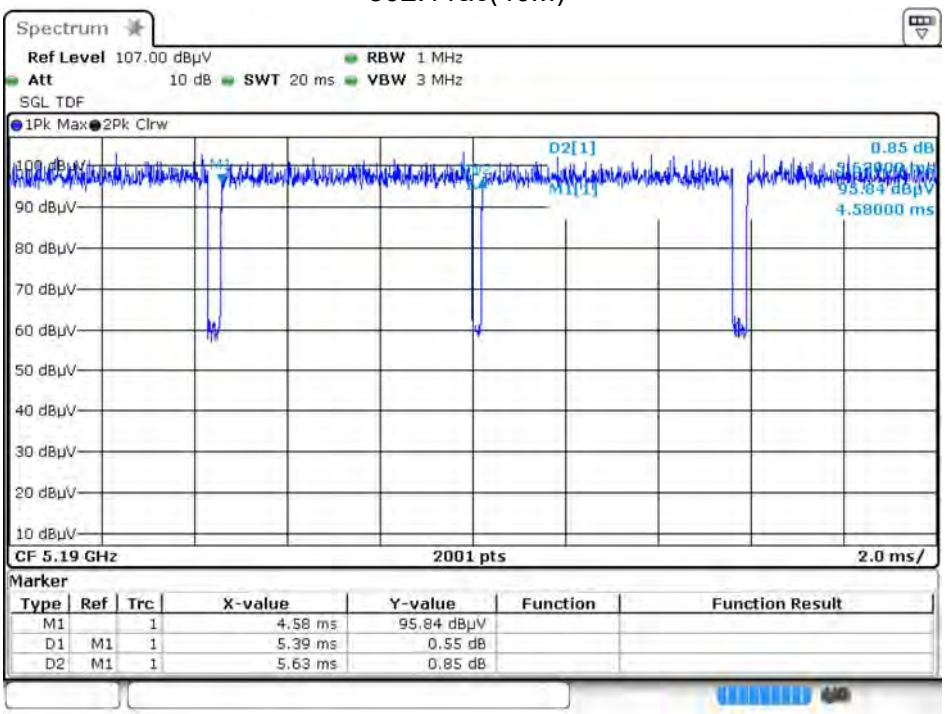
If linear voltage averaging mode was used in step (iv) above, the correction factor is 20 log (1/x), where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.

802.11ac(20M)



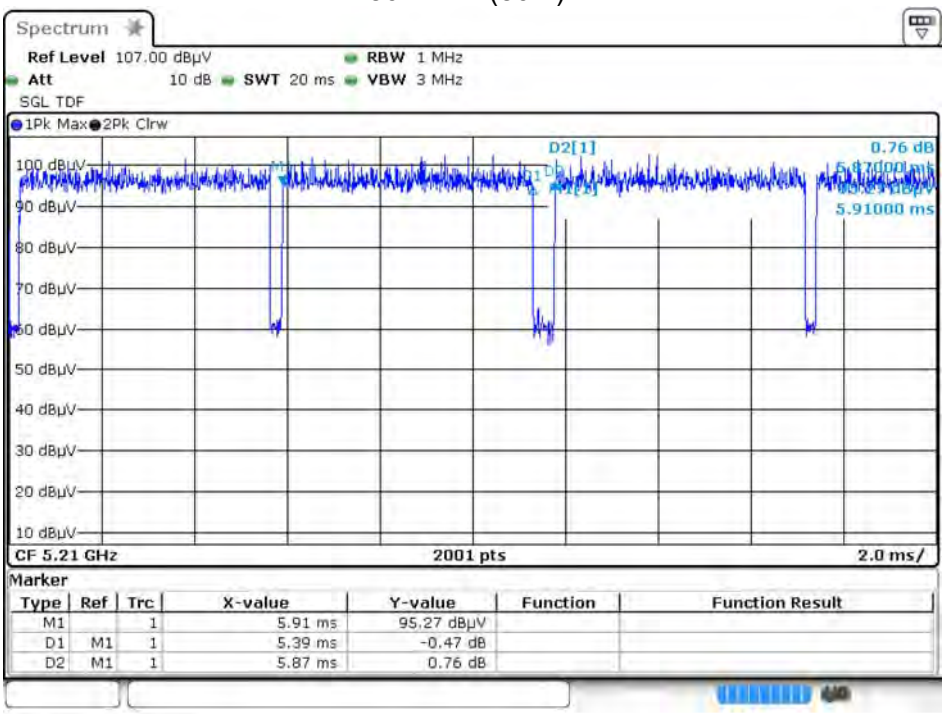
Date: 3.AUG.2018 10:33:29

802.11ac(40M)



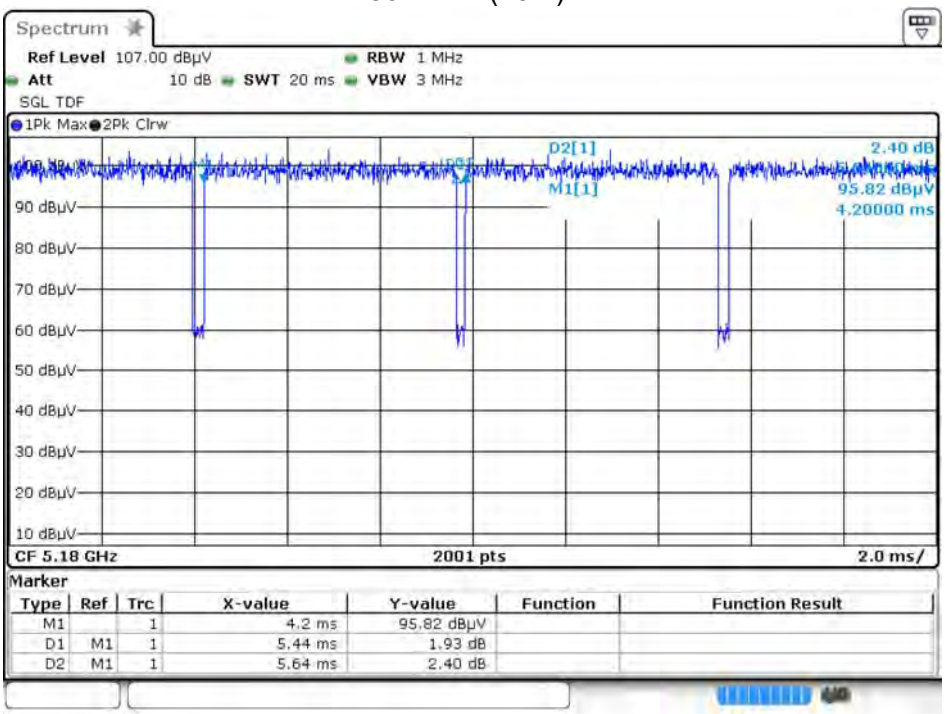
Date: 6.AUG.2018 08:59:56

802.11ac(80M)



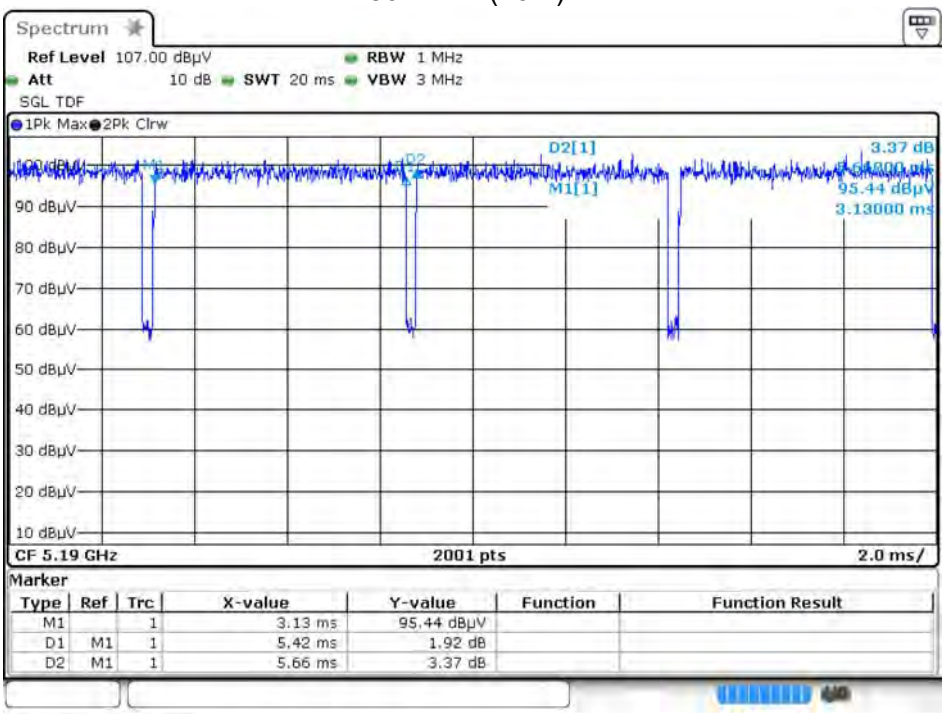
Date: 6.AUG.2018 09:09:20

802.11ax(20M)



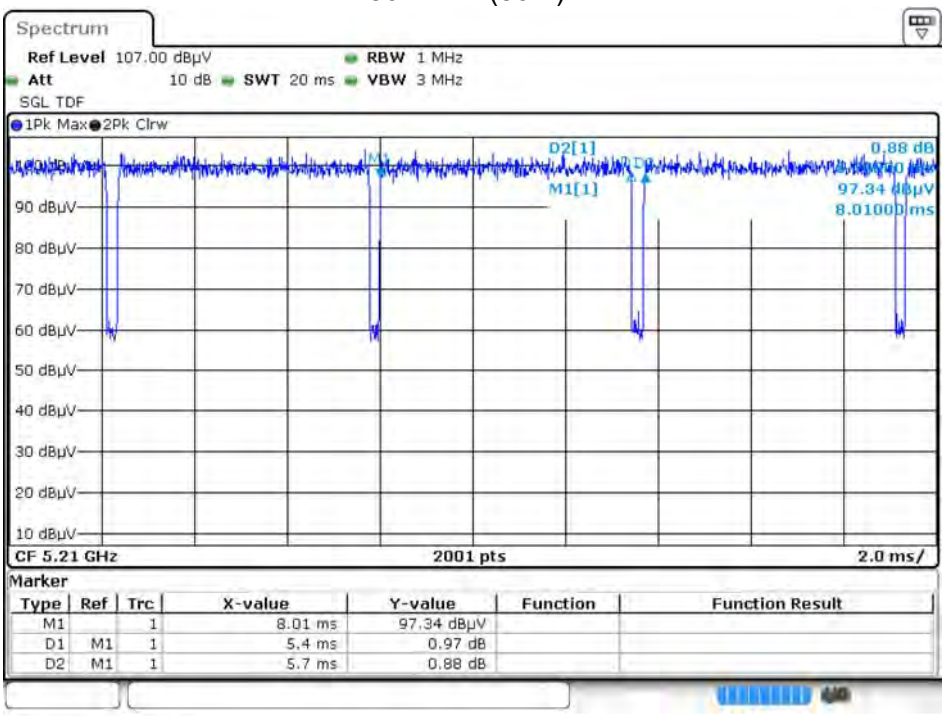
Date: 6.AUG.2018 09:02:44

802.11ax(40M)



Date: 6.AUG.2018 09:05:30

802.11ax(80M)



Date: 6.AUG.2018 09:12:28

CDD Mode_4SS

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor(dB) linear voltage	Duty Factor (dB) Power	1/T Minimum VBW (kHz)
VHT20	5.395	5.620	96.00%	0.354897	0.18	0.185
VHT40	5.415	5.635	96.10%	0.345909	0.17	0.185
VHT80	5.390	5.650	95.40%	0.409194	0.20	0.186
HE20	5.450	5.660	96.29%	0.328399	0.16	0.183
HE40	5.430	5.705	95.18%	0.429116	0.21	0.184
HE80	5.415	5.665	95.59%	0.392029	0.20	0.185

Note:

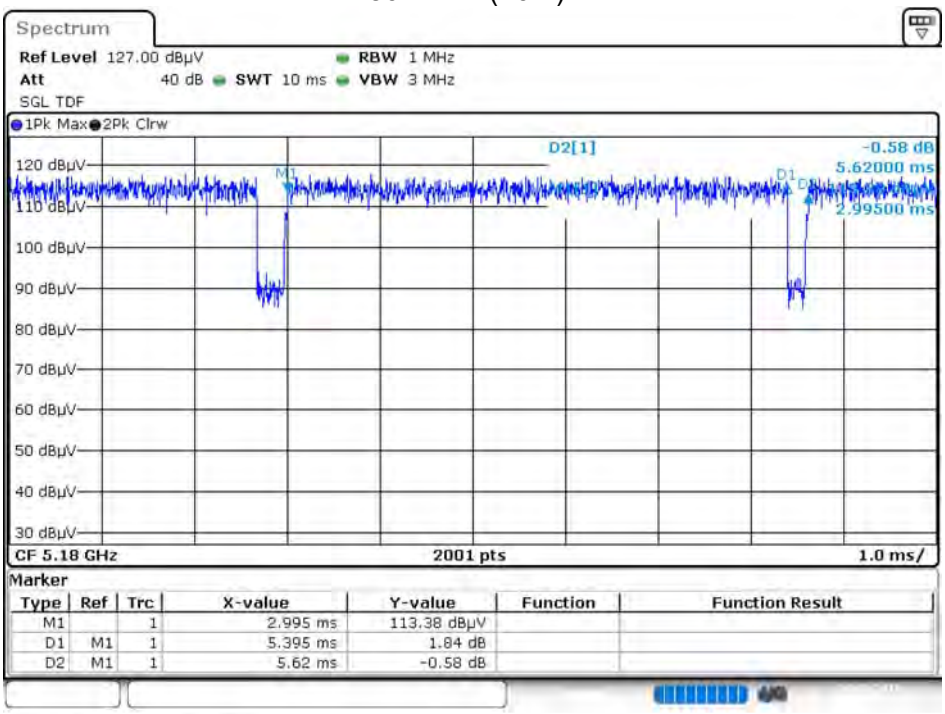
Offset = 20 log(1/duty cycle)

Accotding to KDB 789033

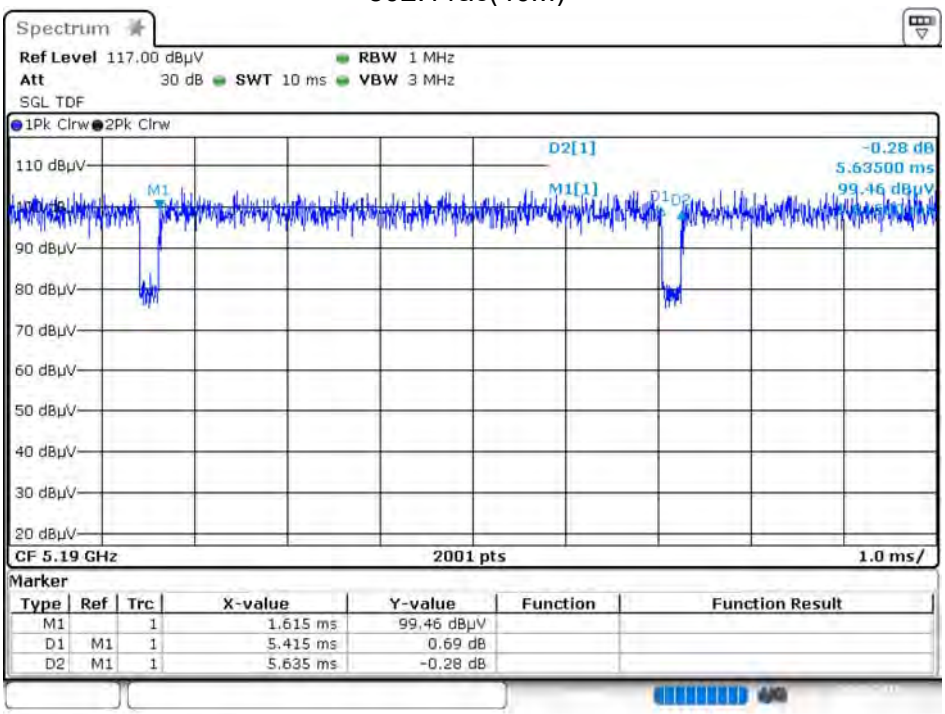
If power averaging (rms) mode was used in step (iv) above, the correction factor is 10 log (1/x), where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels.

If linear voltage averaging mode was used in step (iv) above, the correction factor is 20 log (1/x), where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.

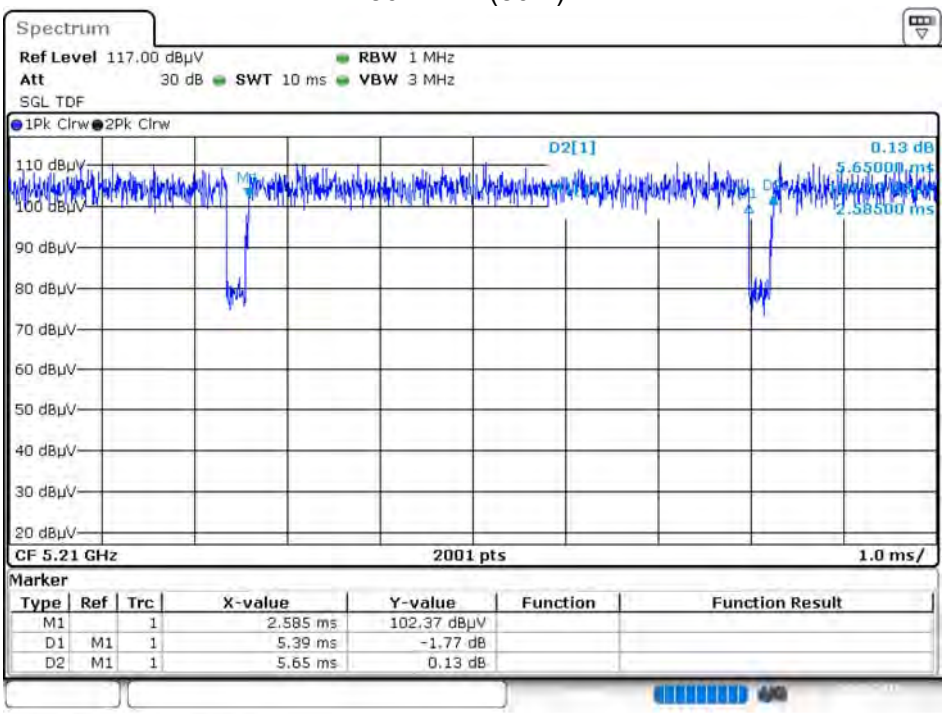
802.11ac(20M)



802.11ac(40M)

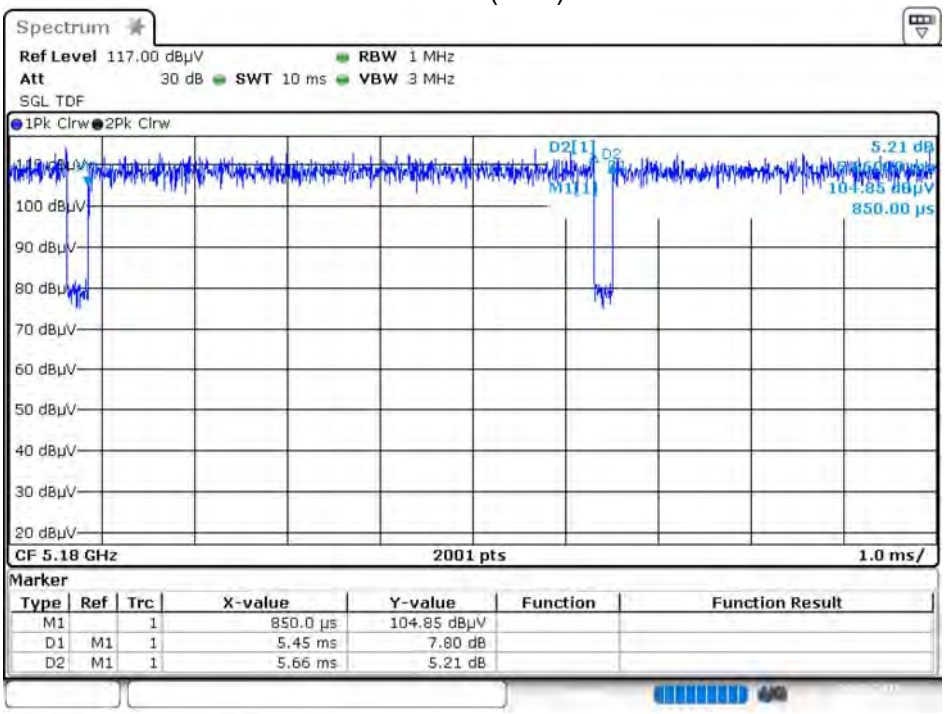


802.11ac(80M)



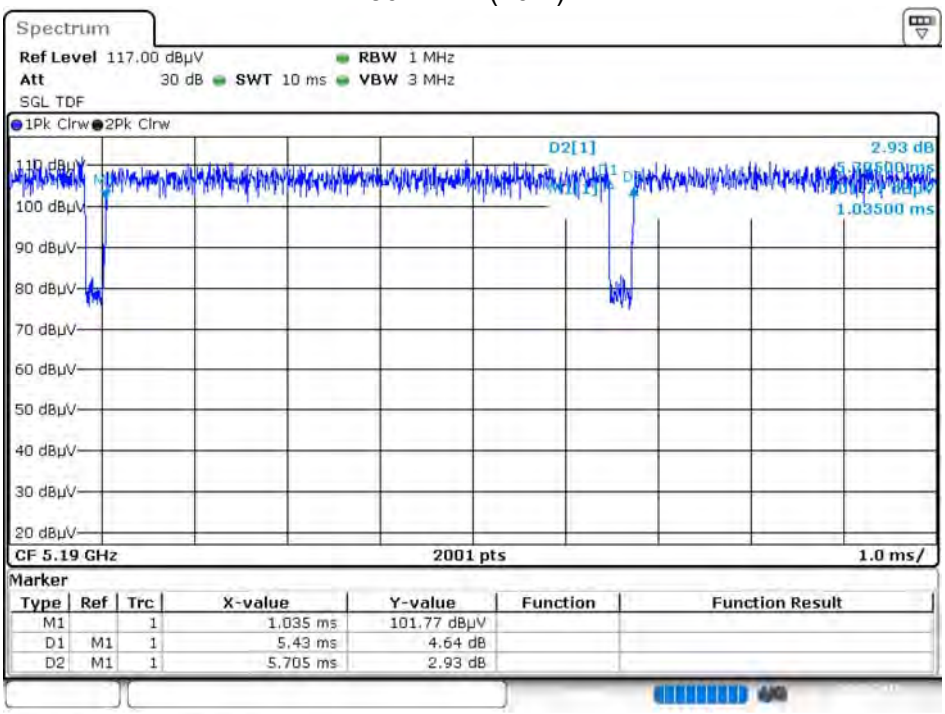
Date: 1.SEP.2018 14:00:10

802.11ax(20M)

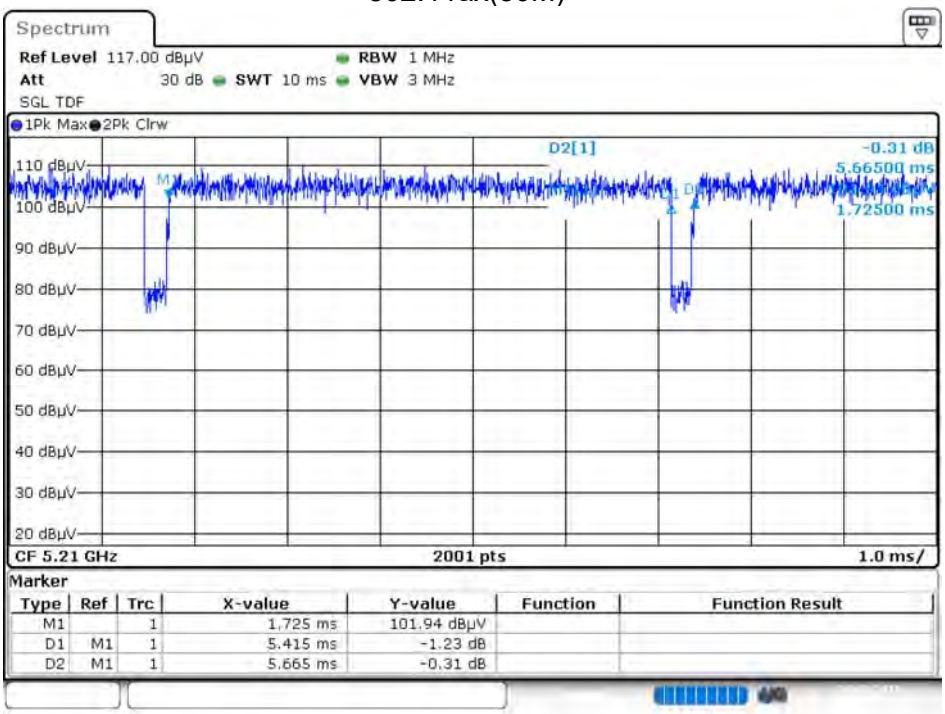


Date: 1.SEP.2018 14:07:46

802.11ax(40M)



802.11ax(80M)



Beamforming Mode_1SS

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor(dB) linear voltage	Duty Factor (dB) Power	1/T Minimum VBW (kHz)
VHT20	1.758	1.868	94.11%	0.527306	0.26	0.569
VHT40	1.663	1.800	92.36%	0.690217	0.35	0.602
VHT80	1.925	2.060	93.45%	0.588730	0.29	0.519

Note:

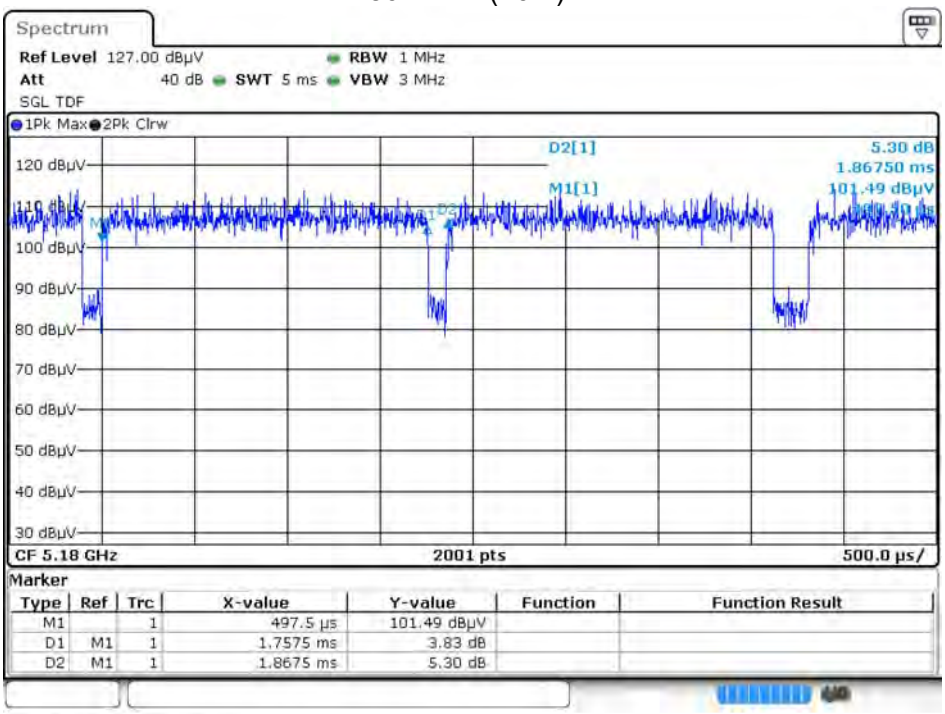
Offset = 20 log(1/duty cycle)

Accotding to KDB 789033

If power averaging (rms) mode was used in step (iv) above, the correction factor is 10 log (1/x), where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels.

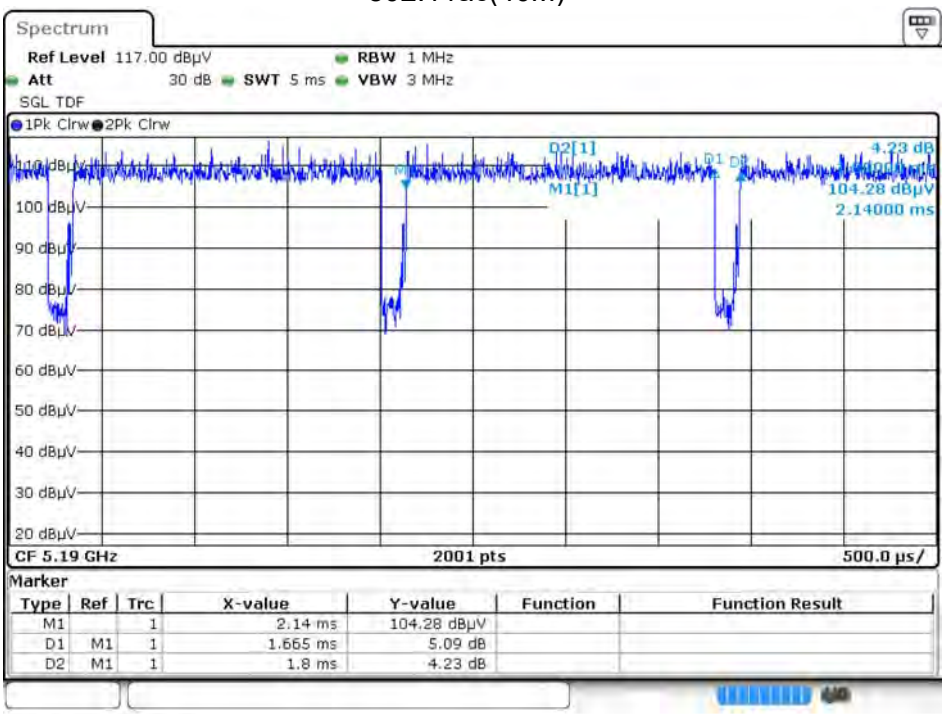
If linear voltage averaging mode was used in step (iv) above, the correction factor is 20 log (1/x), where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.

802.11ac(20M)



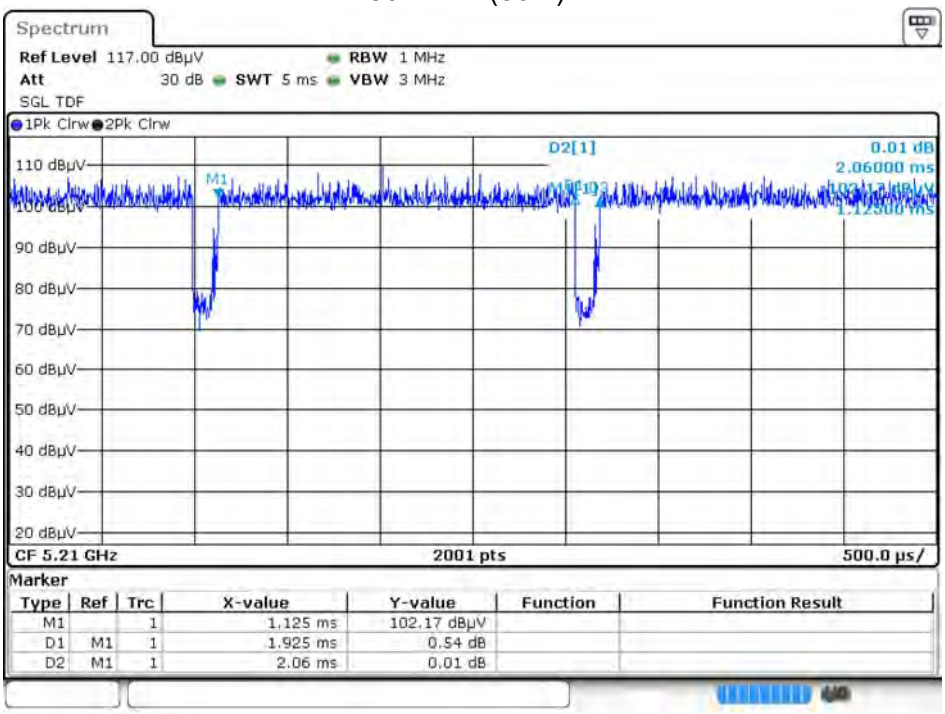
Date: 23.AUG.2018 16:57:17

802.11ac(40M)



Date: 23.AUG.2018 20:11:13

802.11ac(80M)


Spectrum
Ref Level 117.00 dBµV
RBW 1 MHz
Att 30 dB
SWT 5 ms
VBW 3 MHz
SGL TDF
1Pk Clrw
2Pk Clrw
D2[1]
0.01 dB
2.06000 ms
M1
110 dBµV
90 dBµV
80 dBµV
70 dBµV
60 dBµV
50 dBµV
40 dBµV
30 dBµV
20 dBµV
CF 5.21 GHz
2001 pts
500.0 µs/
Marker
Type | Ref | Trc | X-value | Y-value | Function | Function Result
M1 | | 1 | 1.125 ms | 102.17 dBµV
D1 | M1 | 1 | 1.925 ms | 0.54 dB
D2 | M1 | 1 | 2.06 ms | 0.01 dB
Date: 23.AUG.2018 20:03:06

Beamforming Mode_2SS

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor(dB) linear voltage	Duty Factor (dB) Power	1/T Minimum VBW (kHz)
VHT20	1.7535	1.856	94.48%	0.493444	0.25	0.570
VHT40	1.694	1.8015	94.03%	0.534417	0.27	0.590
VHT80	1.93	2.065	93.46%	0.587255	0.29	0.518

Note:

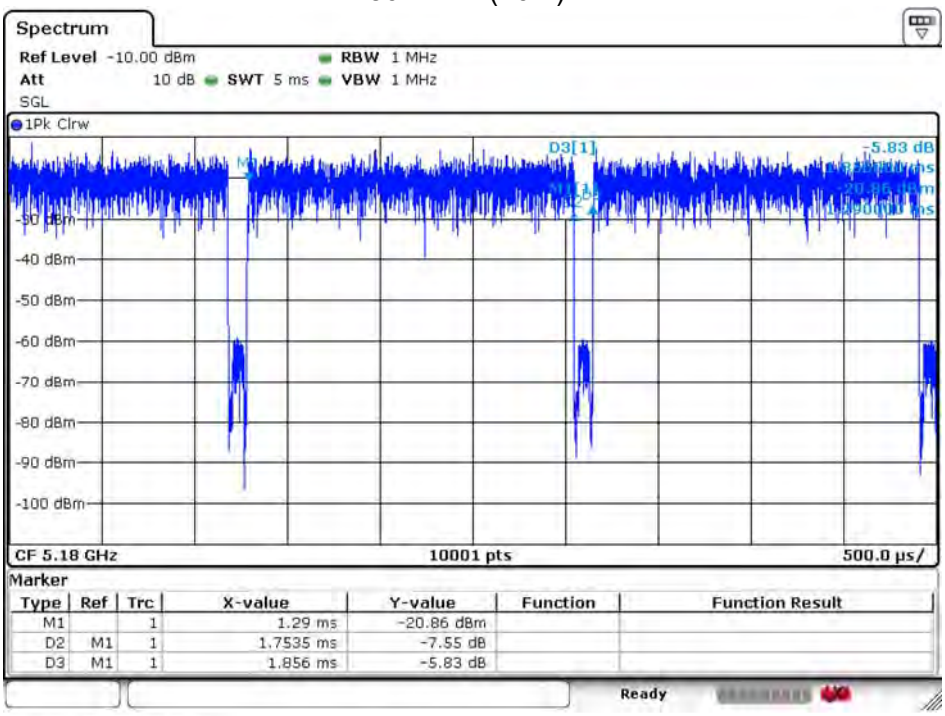
Offset = 20 log(1/duty cycle)

Accotding to KDB 789033

If power averaging (rms) mode was used in step (iv) above, the correction factor is 10 log (1/x), where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels.

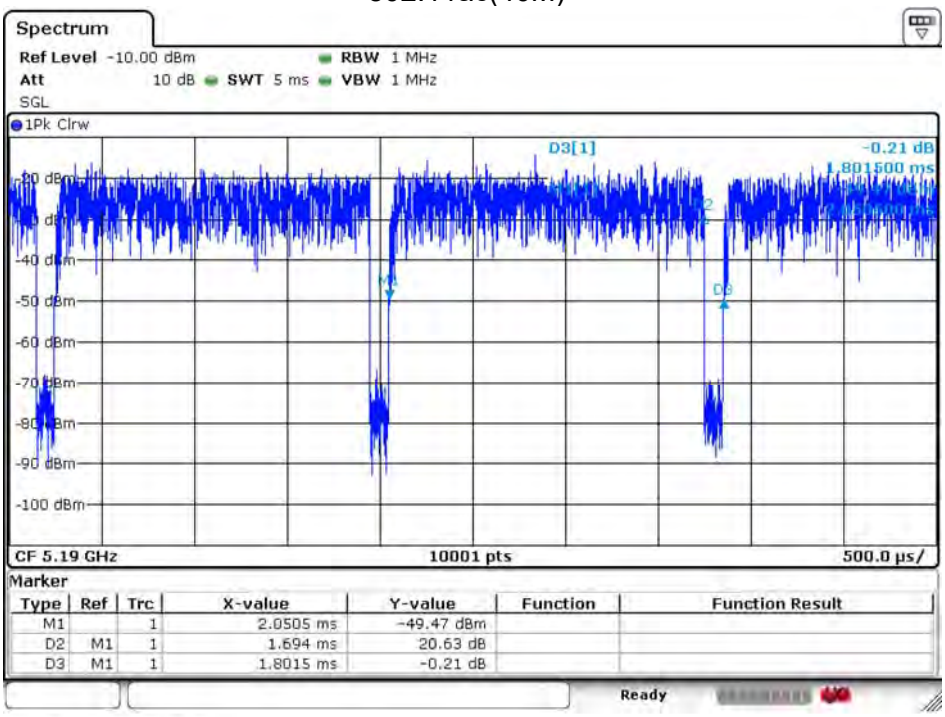
If linear voltage averaging mode was used in step (iv) above, the correction factor is 20 log (1/x), where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.

802.11ac(20M)



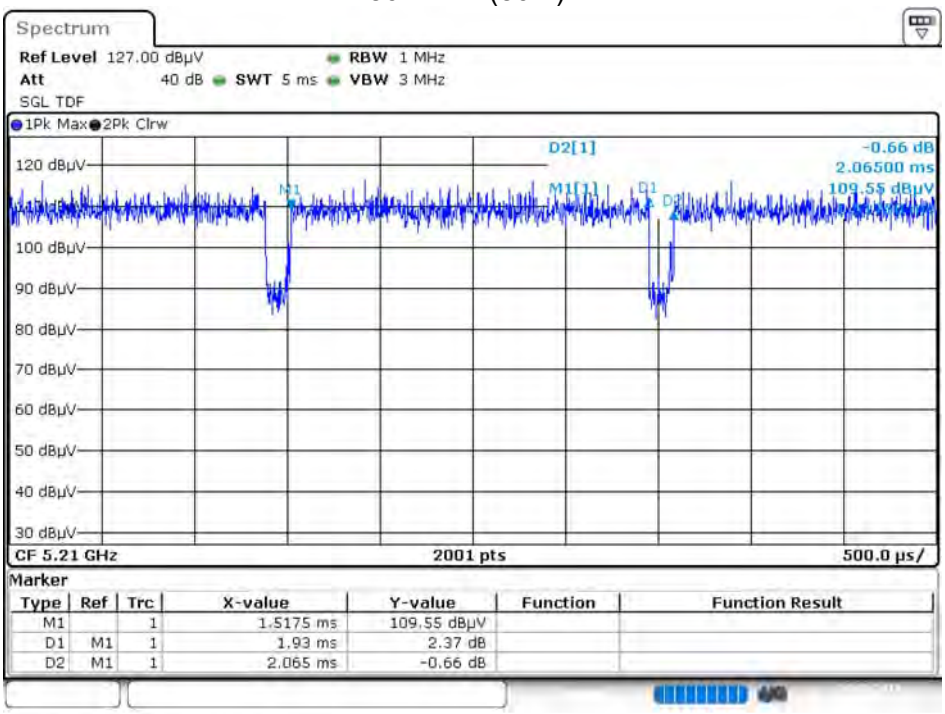
Date: 30.AUG.2018 01:11:41

802.11ac(40M)



Date: 30.AUG.2018 01:06:44

802.11ac(80M)



DATE: 31.AUG.2018 07:37:10

Beamforming Mode_4SS

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor(dB) linear voltage	Duty Factor (dB) Power	1/T Minimum VBW (kHz)
VHT20	1.76	1.8725	93.99%	0.538183	0.27	0.568
VHT40	1.8975	2.02	93.94%	0.543392	0.27	0.527
VHT80	1.9425	2.085	93.17%	0.614901	0.31	0.515

Note:

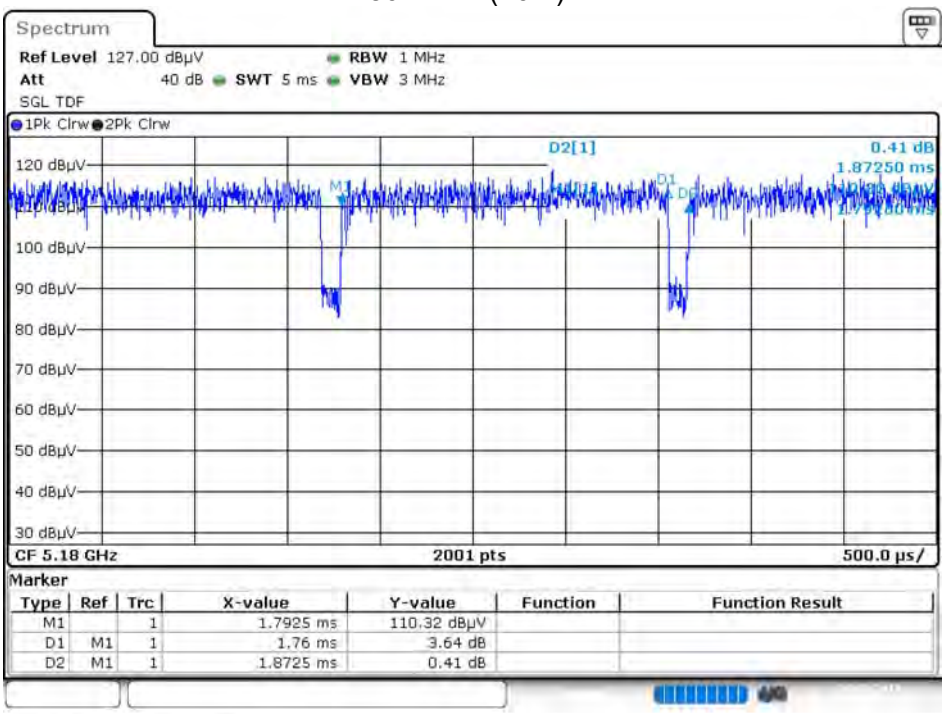
Offset = 20 log(1/duty cycle)

Accotding to KDB 789033

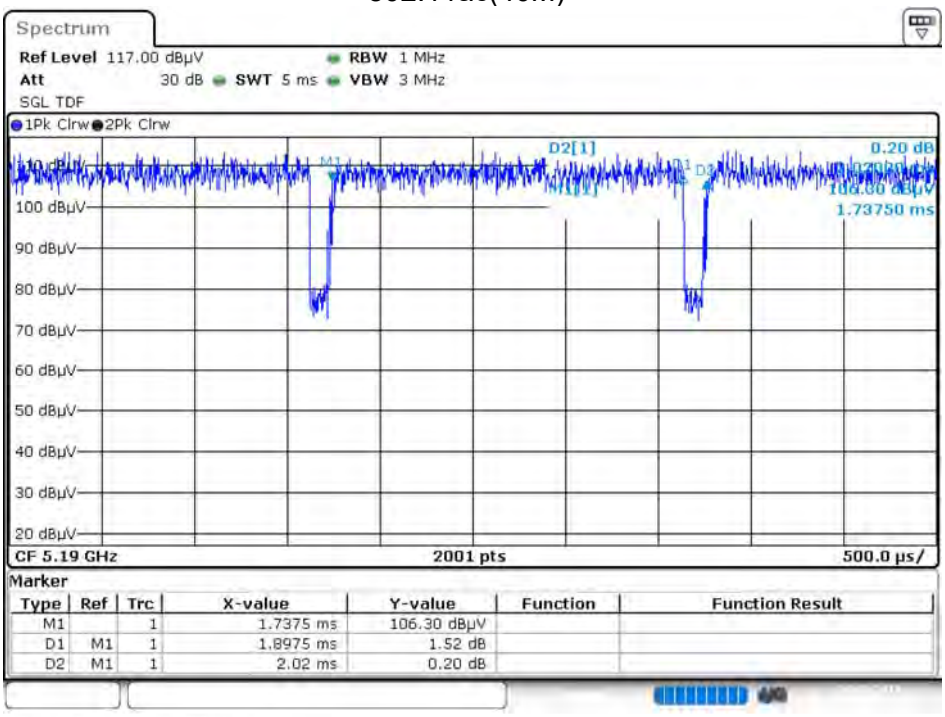
If power averaging (rms) mode was used in step (iv) above, the correction factor is 10 log (1/x), where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels.

If linear voltage averaging mode was used in step (iv) above, the correction factor is 20 log (1/x), where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.

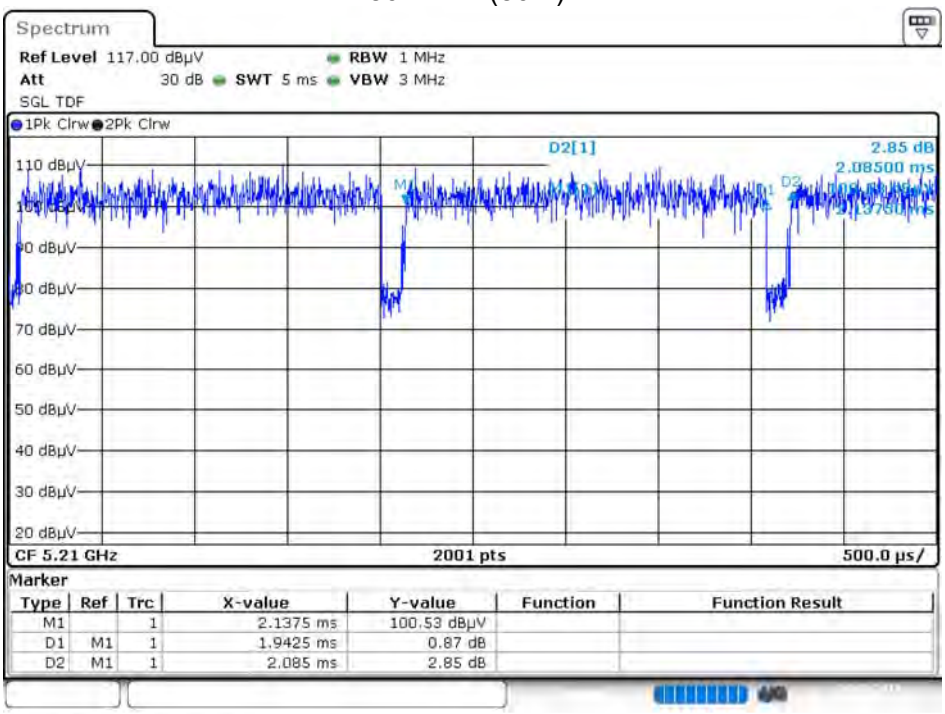
802.11ac(20M)



802.11ac(40M)



802.11ac(80M)

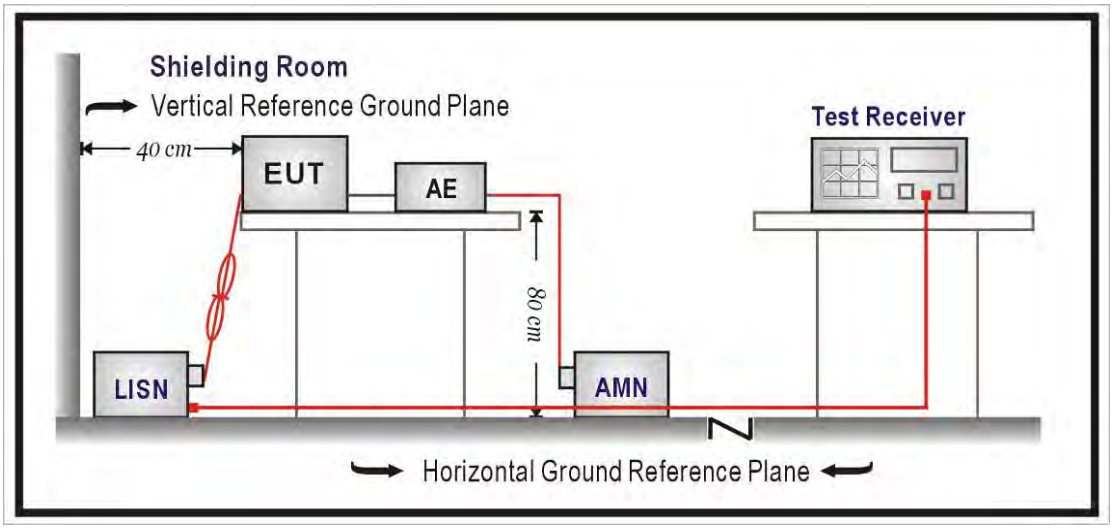

Spectrum
Ref Level 117.00 dBµV
RBW 1 MHz
Att 30 dB
SWT 5 ms
VBW 3 MHz
SGL TDF
1Pk Clrw
2Pk Clrw
D2[1]
2.85 dB
2.08500 ms
110 dBµV
70 dBµV
60 dBµV
50 dBµV
40 dBµV
30 dBµV
20 dBµV
CF 5.21 GHz
2001 pts
500.0 µs/
Marker
Type | Ref | Trc | X-value | Y-value | Function | Function Result
M1 | | 1 | 2.1375 ms | 100.53 dBµV
D1 | M1 | 1 | 1.9425 ms | 0.87 dB
D2 | M1 | 1 | 2.085 ms | 2.85 dB
Date: 1.SEP.2018 22:10:47

1.9. Uncertainty

Test item	Uncertainty
Conducted Emission	± 2.26 dB
26dB & 99% & DTS Bandwidth	± 50 Hz
Maximum conducted output power	± 1.27 dB
Maximum power spectral density	± 1.27 dB
Radiated Emission	30MHz～1GHz as ± 3.43 dB 1GHz～26.5GHz as ± 3.65 dB
Band Edge	± 3.65 dB

2. Conducted Emission

2.1. Test Setup



2.2. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	QP	AV
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remark: In the above table, the tighter limit applies at the band edges.

2.3. Test Procedure

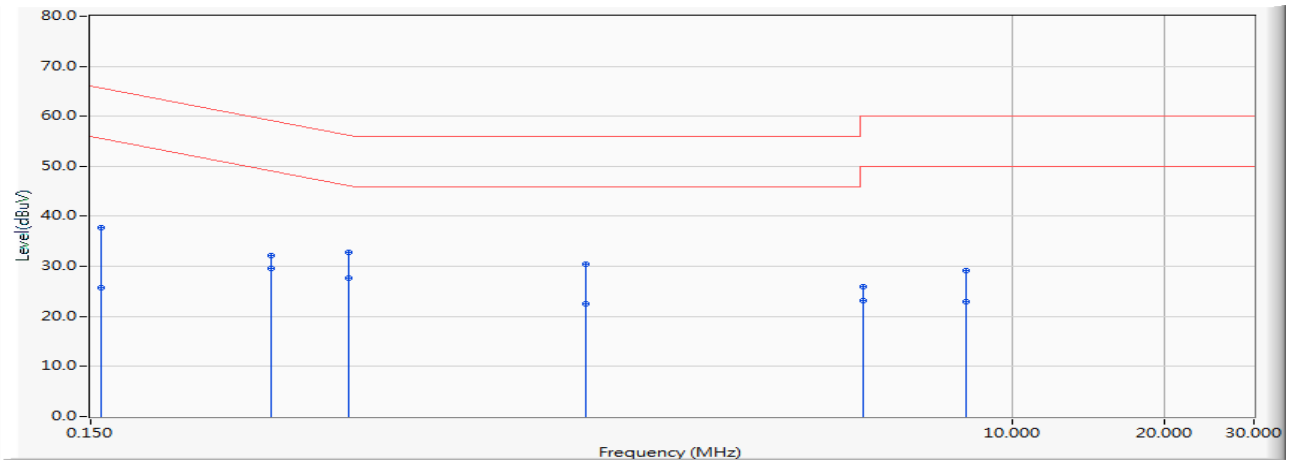
The EUT was setup according to ANSI C63.10: 2013. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)
Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.407: 2017

2.5. Test Result

Site : SR2-H	**Time : 2018/10/02**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-B127_LISN(16A)-8 - Line1	**Power : AC 120V/60Hz**
EUT : **ROG Rapture GT-AX6000 Dual-band Gaming Router**	**Note : Mode 4:TX_AC5400_Tranformer 1_AD2087320_** **802.11ax(80M)_5210MHz**

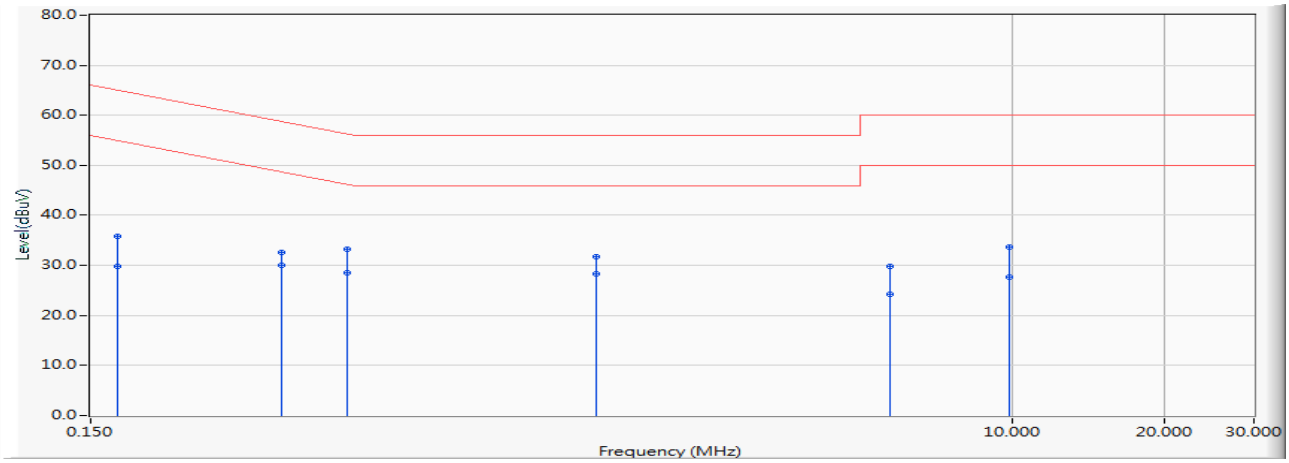


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.158	9.680	28.050	37.730	-27.848	65.578	QUASIPEAK
2		0.158	9.680	16.050	25.730	-29.848	55.578	AVERAGE
3		0.341	9.680	22.390	32.070	-27.099	59.169	QUASIPEAK
4		0.341	9.680	20.020	29.700	-19.469	49.169	AVERAGE
5		0.486	9.681	23.180	32.861	-23.376	56.237	QUASIPEAK
6	*	0.486	9.681	17.920	27.601	-18.636	46.237	AVERAGE
7		1.435	9.794	20.640	30.434	-25.566	56.000	QUASIPEAK
8		1.435	9.794	12.740	22.534	-23.466	46.000	AVERAGE
9		5.060	9.826	16.070	25.897	-34.103	60.000	QUASIPEAK
10		5.060	9.826	13.410	23.237	-26.763	50.000	AVERAGE
11		8.076	9.987	19.270	29.257	-30.743	60.000	QUASIPEAK
12		8.076	9.987	13.030	23.017	-26.983	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	**Time : 2018/10/02**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-B127_LISN(16A)-8 - Line2	**Power : AC 120V/60Hz**
EUT : **ROG Rapture GT-AX6000 Dual-band Gaming Router**	**Note : Mode 4:TX_AC5400_Tranformer 1_AD2087320_** **802.11ax(80M)_5210MHz**

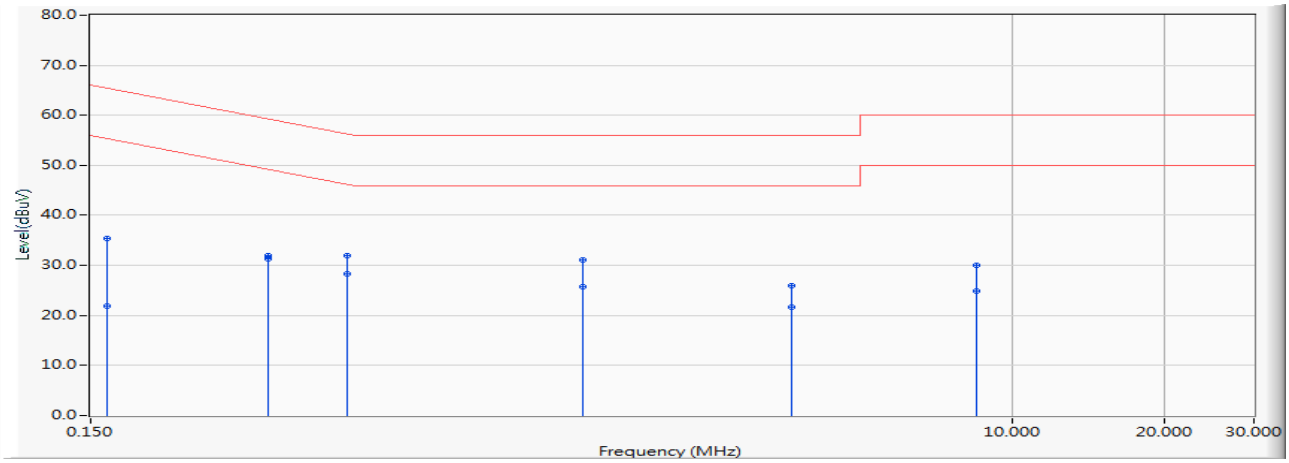


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.170	9.680	26.070	35.750	-29.233	64.983	QUASIPEAK
2		0.170	9.680	20.210	29.890	-25.093	54.983	AVERAGE
3		0.357	9.680	22.830	32.510	-26.287	58.797	QUASIPEAK
4		0.357	9.680	20.370	30.050	-18.747	48.797	AVERAGE
5		0.482	9.681	23.480	33.161	-23.143	56.304	QUASIPEAK
6		0.482	9.681	18.760	28.441	-17.863	46.304	AVERAGE
7		1.498	9.795	21.990	31.785	-24.215	56.000	QUASIPEAK
8	*	1.498	9.795	18.430	28.225	-17.775	46.000	AVERAGE
9		5.724	9.866	19.860	29.726	-30.274	60.000	QUASIPEAK
10		5.724	9.866	14.420	24.286	-25.714	50.000	AVERAGE
11		9.818	10.071	23.560	33.631	-26.369	60.000	QUASIPEAK
12		9.818	10.071	17.640	27.711	-22.289	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	**Time : 2018/10/02**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-B127_LISN(16A)-8 - Line1	**Power : AC 120V/60Hz**
EUT : **ROG Rapture GT-AX6000 Dual-band Gaming Router**	**Note : Mode 4:TX_AC5400_Tranformer 1_AD2087320_** **802.11ax(80M)_5775MHz**

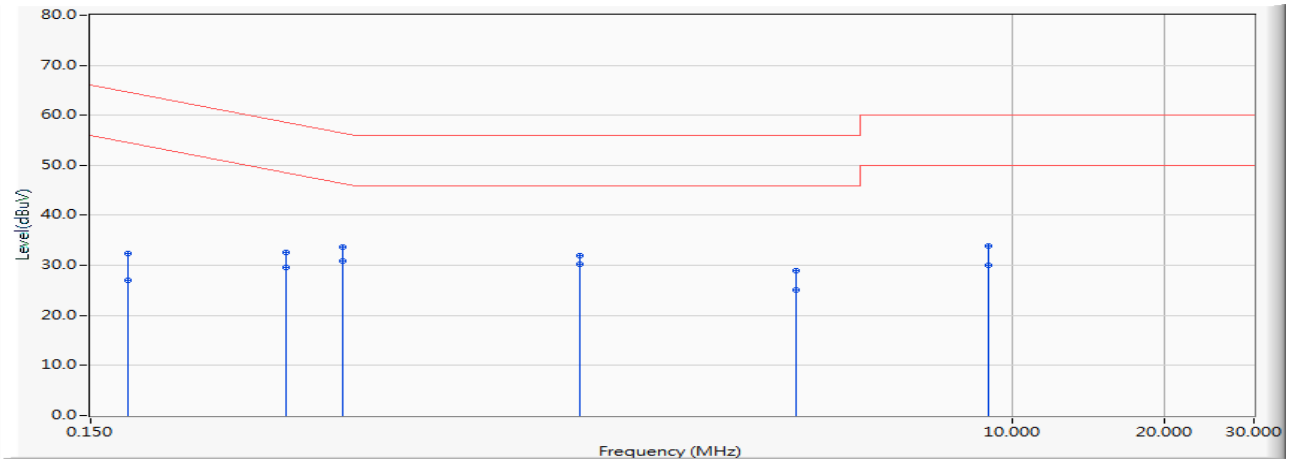


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	9.680	25.700	35.380	-29.995	65.375	QUASIPEAK
2		0.162	9.680	12.110	21.790	-33.585	55.375	AVERAGE
3		0.338	9.680	22.200	31.880	-27.385	59.265	QUASIPEAK
4	*	0.338	9.680	21.650	31.330	-17.935	49.265	AVERAGE
5		0.482	9.681	22.280	31.961	-24.343	56.304	QUASIPEAK
6		0.482	9.681	18.630	28.311	-17.993	46.304	AVERAGE
7		1.408	9.794	21.310	31.104	-24.896	56.000	QUASIPEAK
8		1.408	9.794	16.010	25.804	-20.196	46.000	AVERAGE
9		3.658	9.808	16.250	26.058	-29.942	56.000	QUASIPEAK
10		3.658	9.808	11.890	21.698	-24.302	46.000	AVERAGE
11		8.466	10.009	19.920	29.928	-30.072	60.000	QUASIPEAK
12		8.466	10.009	14.770	24.778	-25.222	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	**Time : 2018/10/02**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-B127_LISN(16A)-8 - Line2	**Power : AC 120V/60Hz**
EUT : **ROG Rapture GT-AX6000 Dual-band Gaming Router**	**Note : Mode 4:TX_AC5400_Tranformer 1_AD2087320_** **802.11ax(80M)_5775MHz**



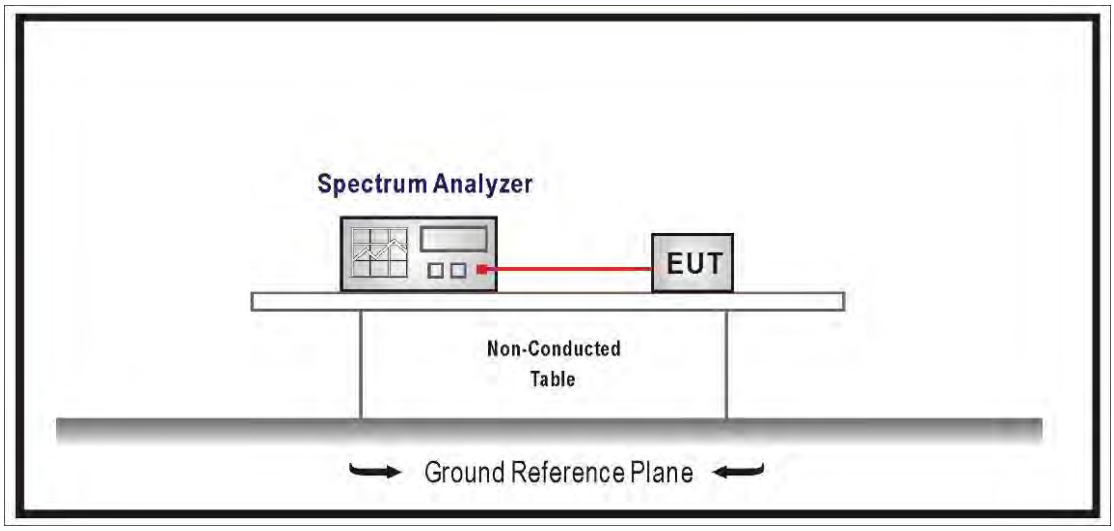
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.177	9.680	22.780	32.460	-32.149	64.609	QUASIPEAK
2		0.177	9.680	17.360	27.040	-27.569	54.609	AVERAGE
3		0.365	9.680	22.850	32.530	-26.087	58.617	QUASIPEAK
4		0.365	9.680	19.940	29.620	-18.997	48.617	AVERAGE
5		0.474	9.681	24.070	33.751	-22.688	56.440	QUASIPEAK
6	*	0.474	9.681	21.270	30.951	-15.488	46.440	AVERAGE
7		1.388	9.794	22.060	31.854	-24.146	56.000	QUASIPEAK
8		1.388	9.794	20.480	30.274	-15.726	46.000	AVERAGE
9		3.728	9.817	19.100	28.917	-27.083	56.000	QUASIPEAK
10		3.728	9.817	15.200	25.017	-20.983	46.000	AVERAGE
11		8.982	10.029	23.780	33.809	-26.191	60.000	QUASIPEAK
12		8.982	10.029	20.060	30.089	-19.911	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

3. 26dB & 99% & DTS Bandwidth

3.1. Test Setup



3.2. Limits

99% & 26dB Bandwidth : No Required

6dB Bandwidth ≧ 500KHz

3.3. Test Procedure

99% & 26dB Bandwidth :

The EUT was tested according to U-NII test procedure of KDB 789033.v01r02

Set RBW 1% of the emission bandwidth, VBW equal to 3 times the RBW.

DTS Bandwidth :

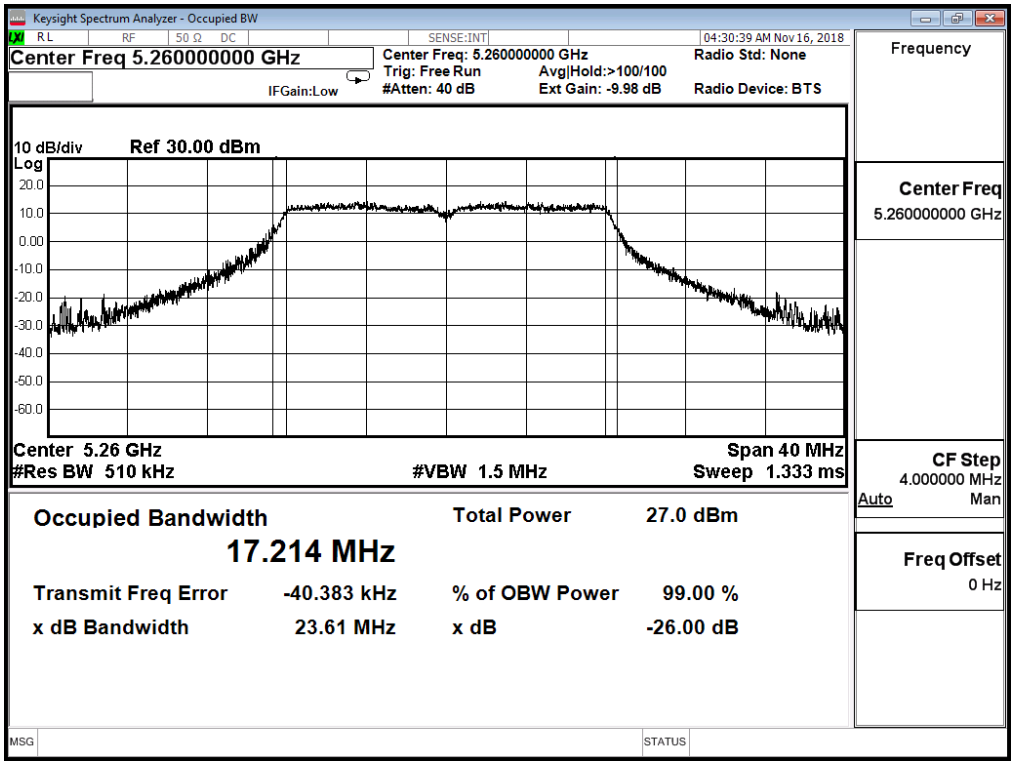
Set RBW = 100KHz, VBW≧3xRBW, Sweep time=Auto, Set Peak detector.

3.4. Test Result

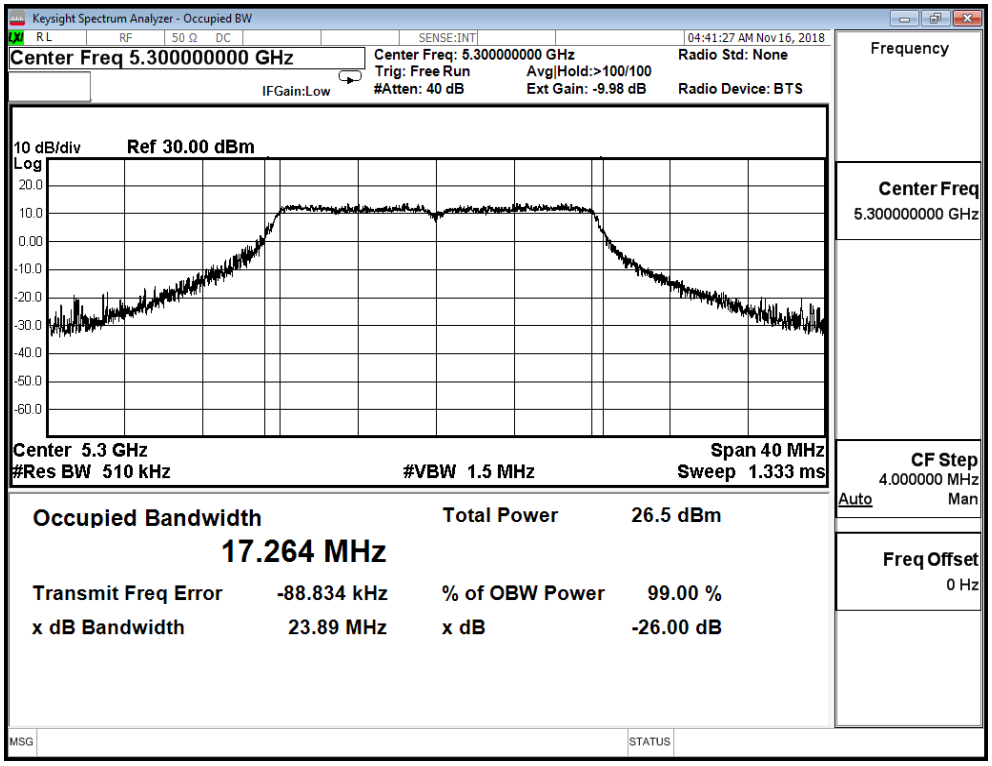
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11a (ANT 0)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
52	5260	17.214	23.610	--
60	5300	17.264	23.890	--
64	5320	17.138	23.280	--

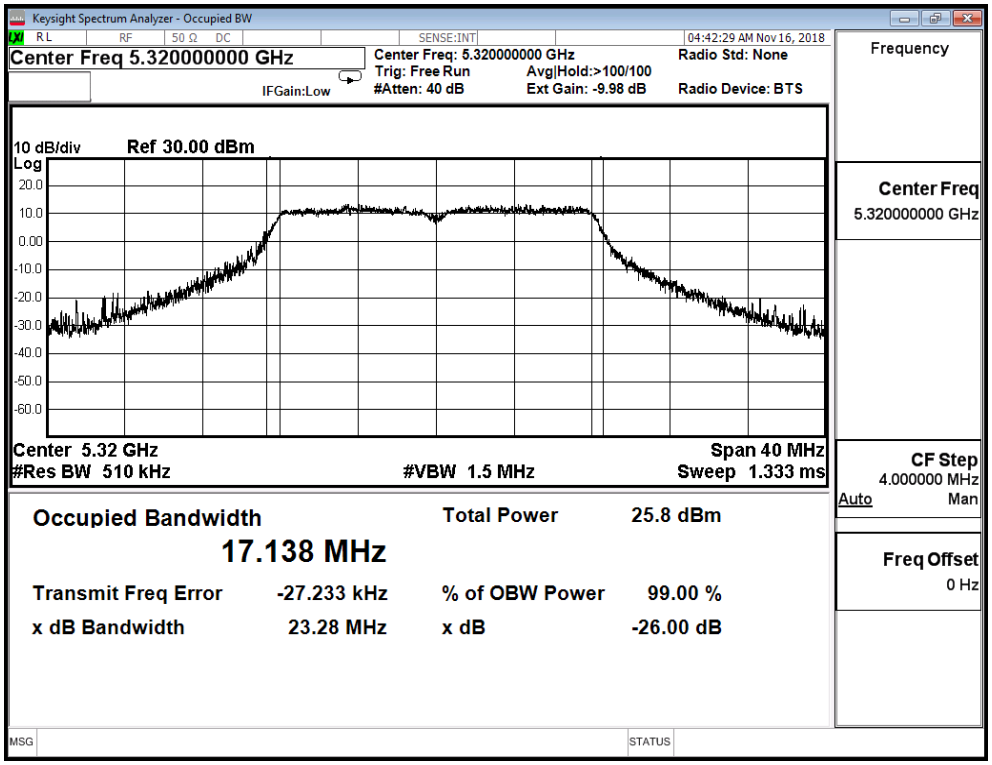
Channel 52



Channel 60



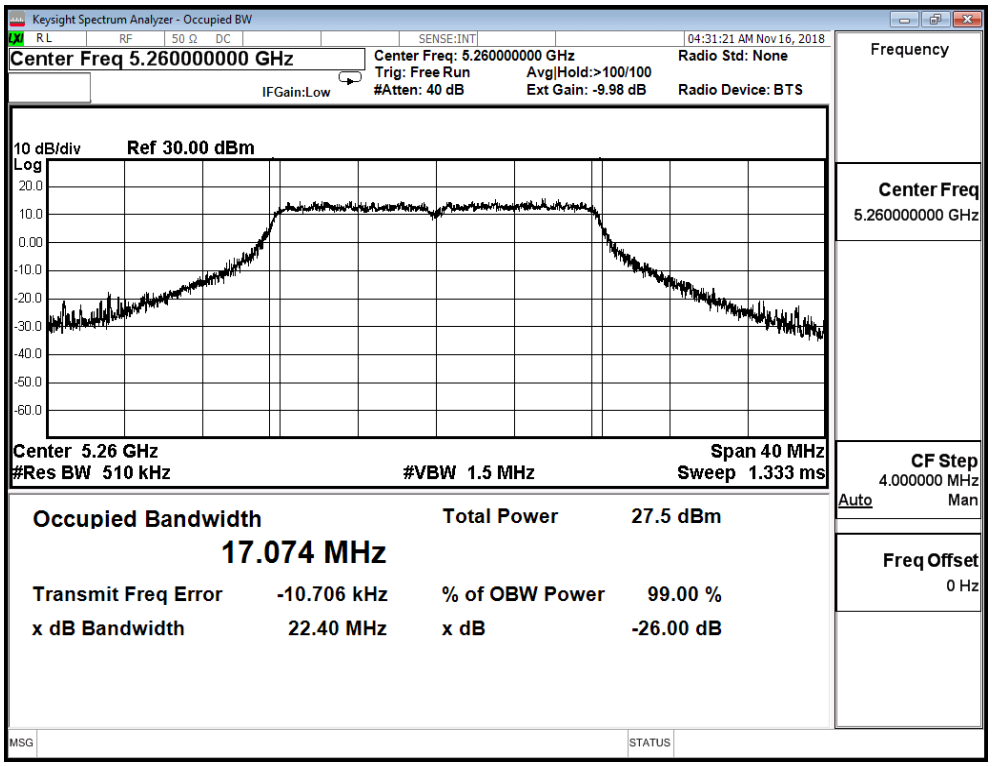
Channel 64



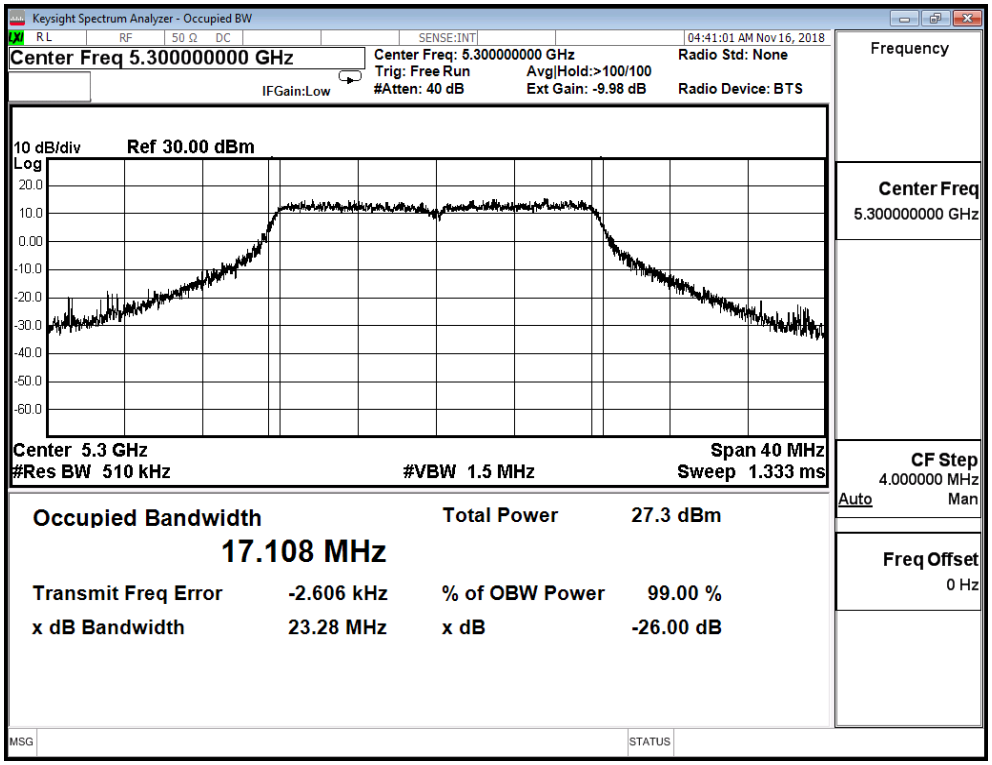
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11a (ANT 1)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
52	5260	17.074	22.400	--
60	5300	17.108	23.280	--
64	5320	17.035	22.170	--

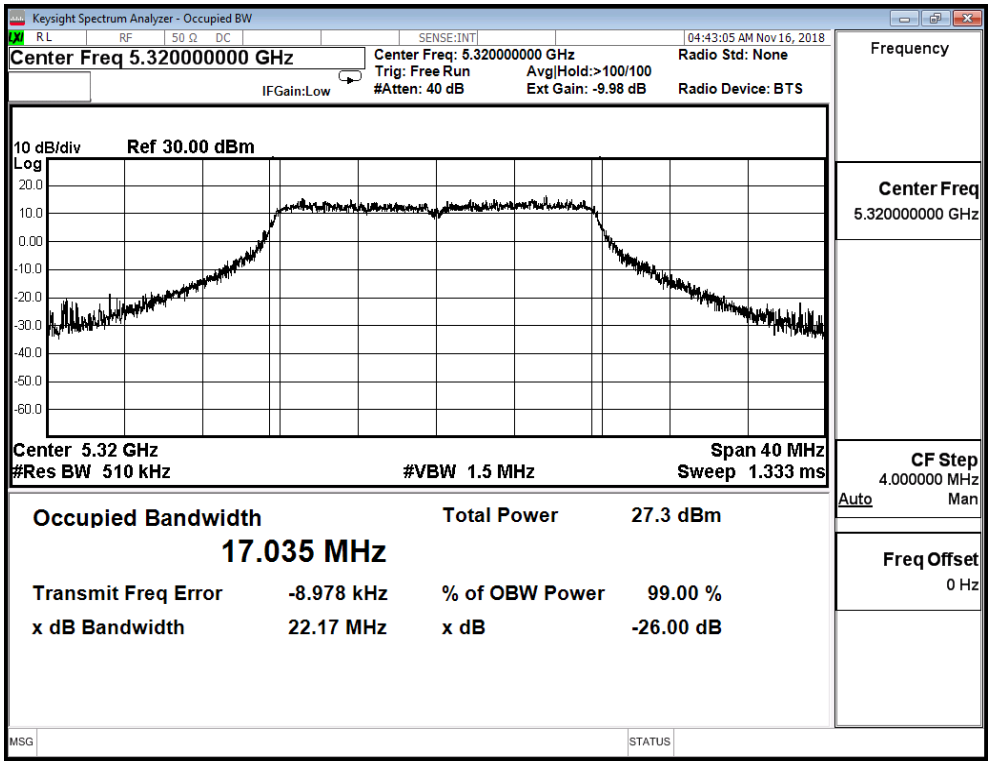
Channel 52



Channel 60



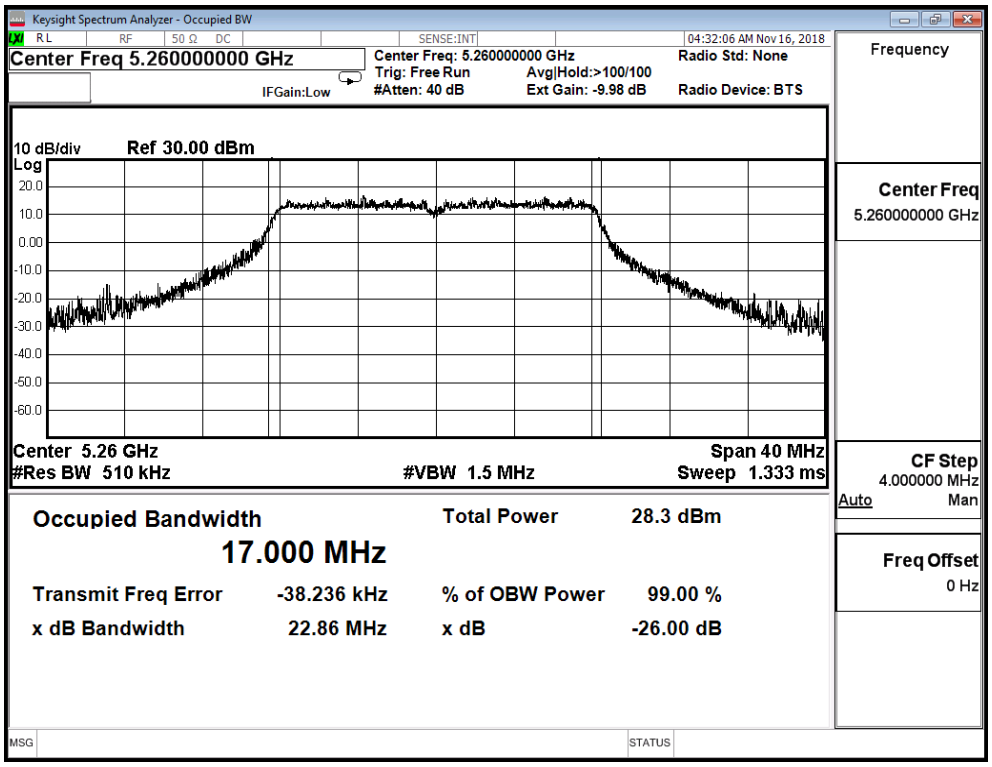
Channel 64



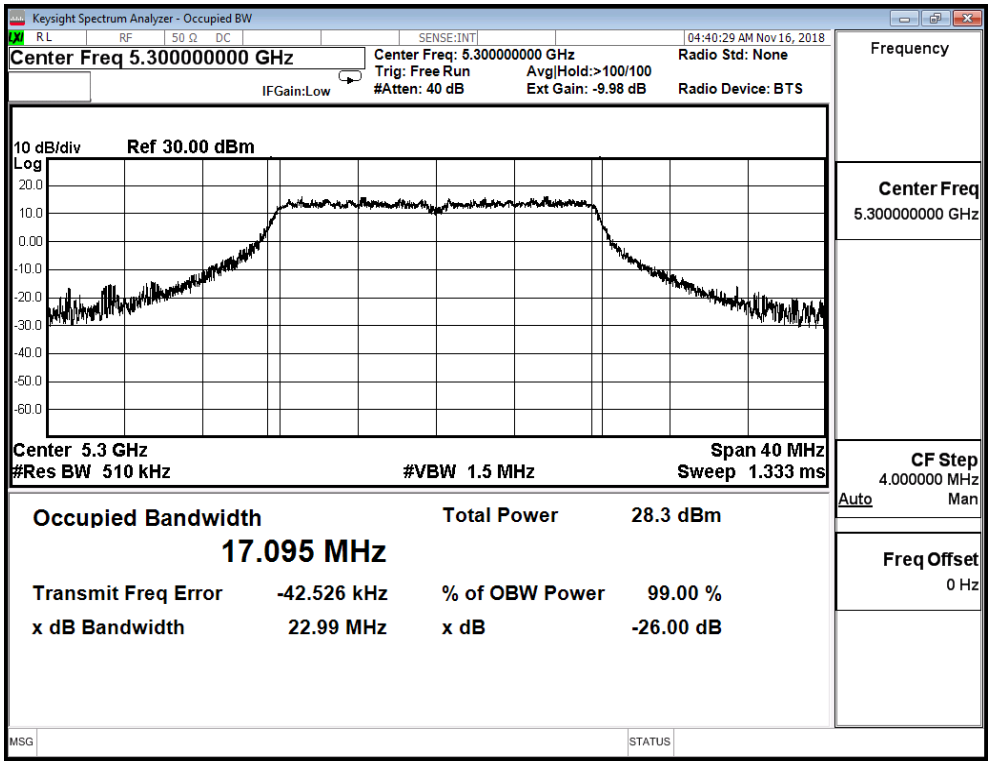
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11a (ANT 2)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
52	5260	17.000	22.860	--
60	5300	17.095	22.990	--
64	5320	17.044	22.900	--

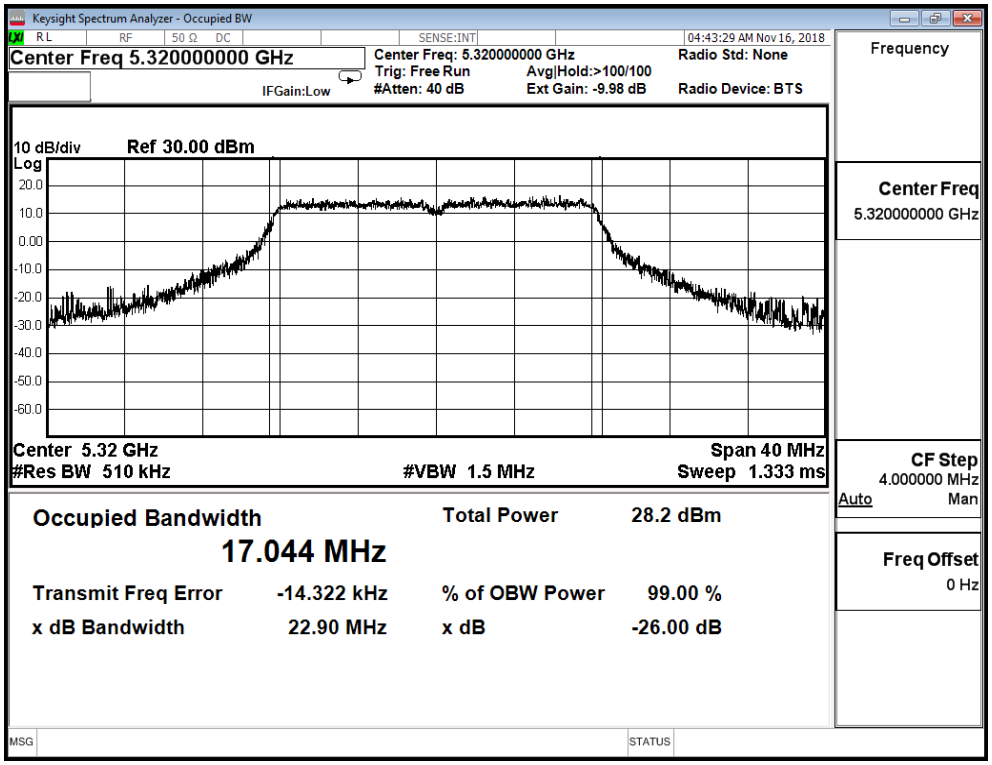
Channel 52



Channel 60



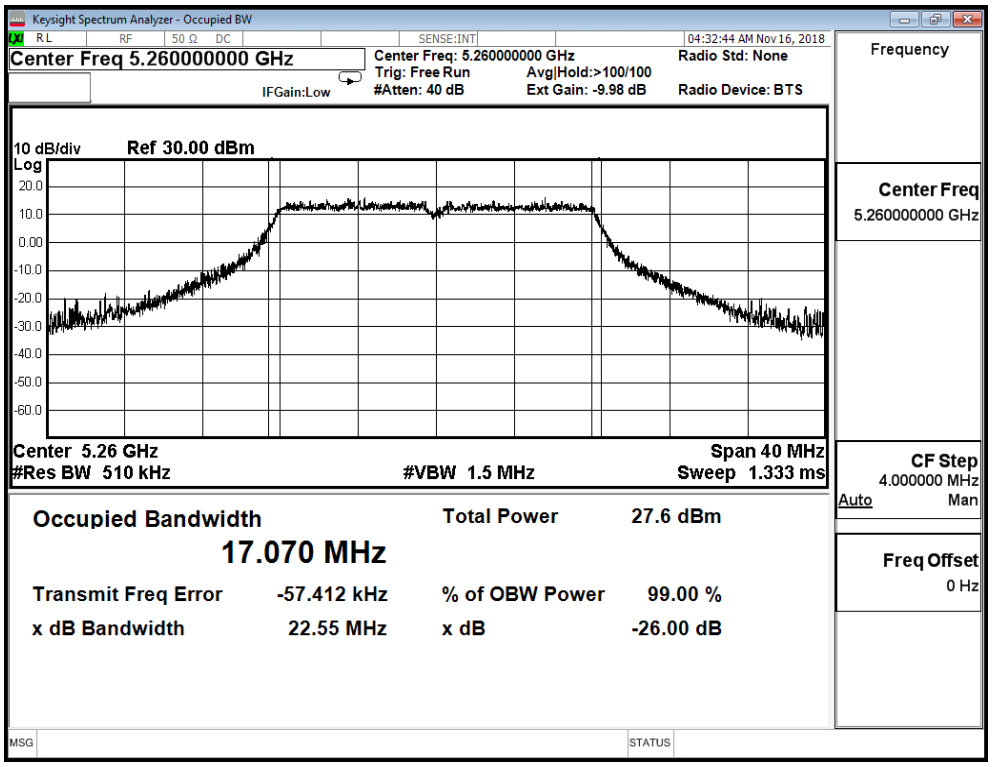
Channel 64



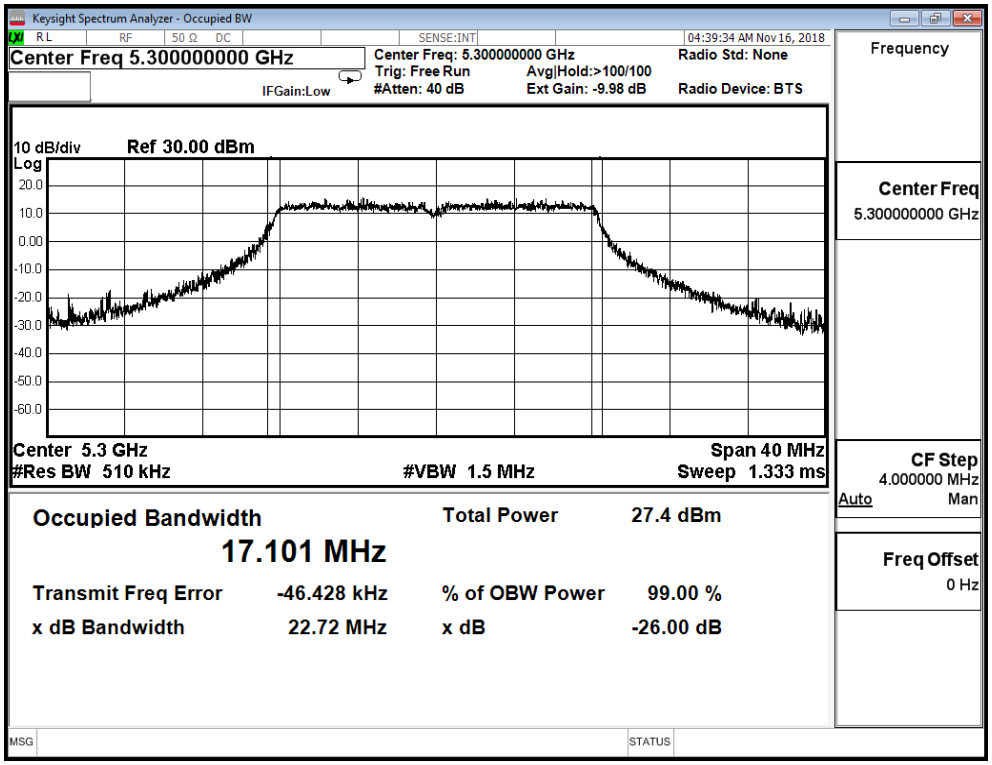
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11a (ANT 3)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
52	5260	17.070	22.550	--
60	5300	17.101	22.720	--
64	5320	17.089	22.360	--

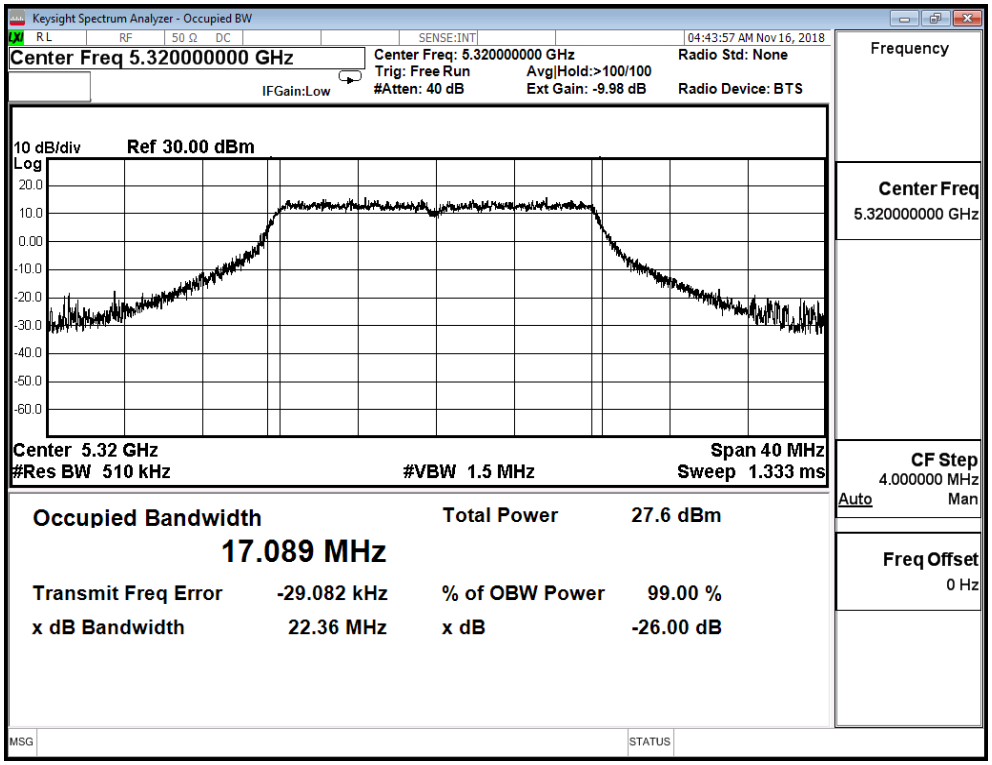
Channel 52



Channel 60



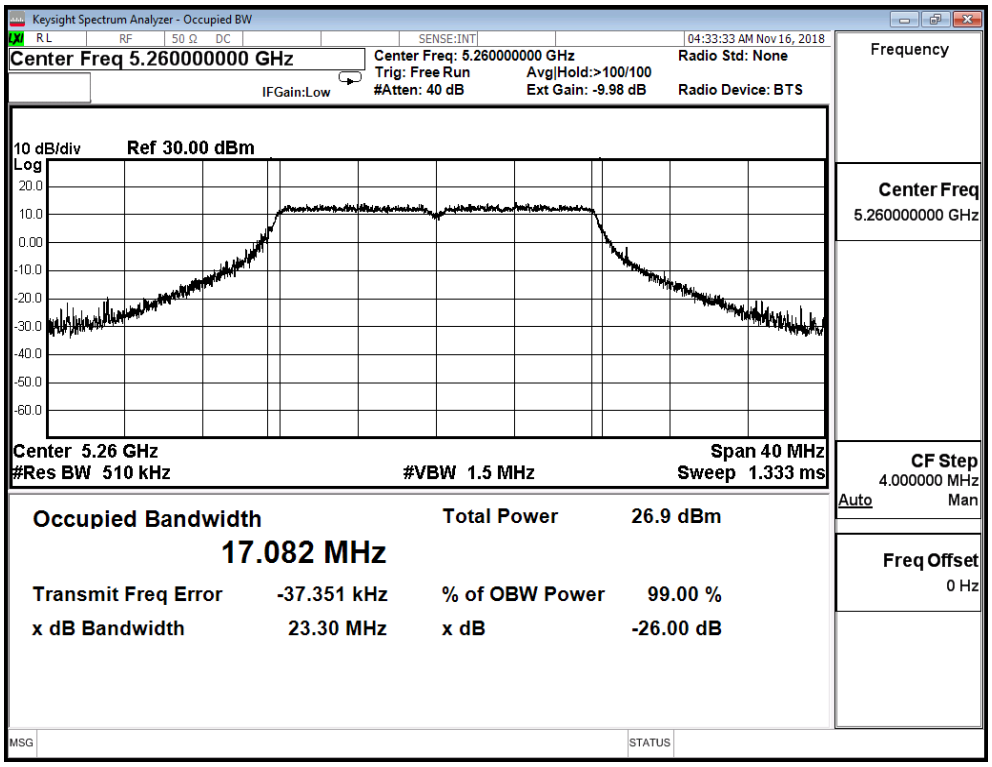
Channel 64



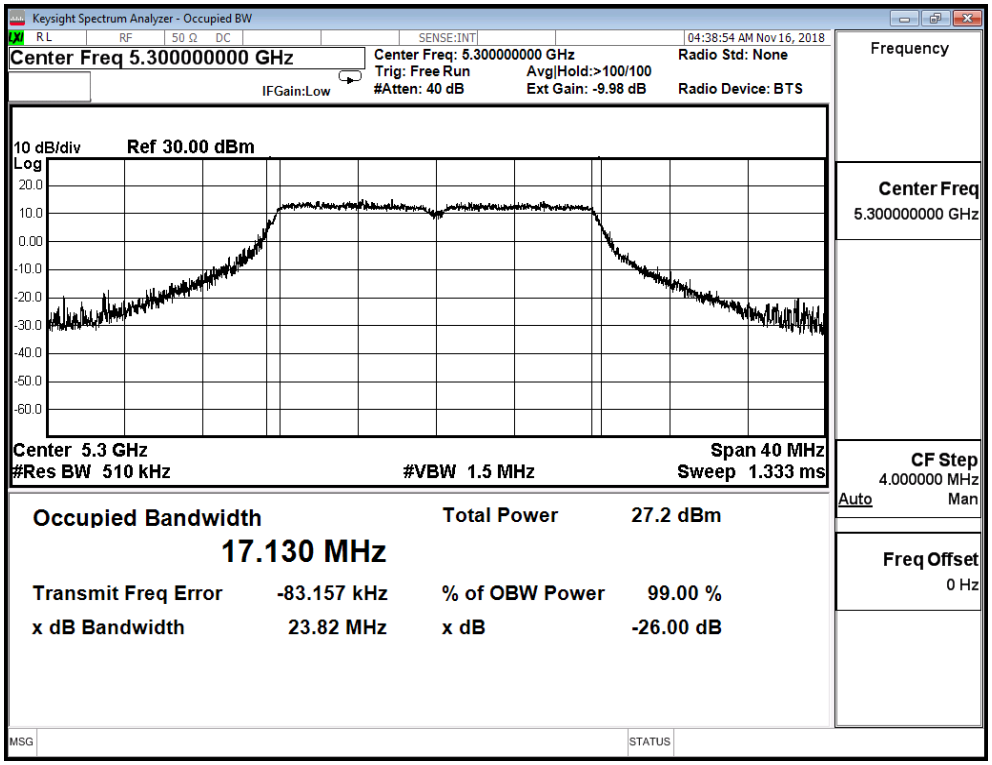
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11a (ANT 4)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
52	5260	17.082	23.300	--
60	5300	17.130	23.820	--
64	5320	17.170	22.870	--

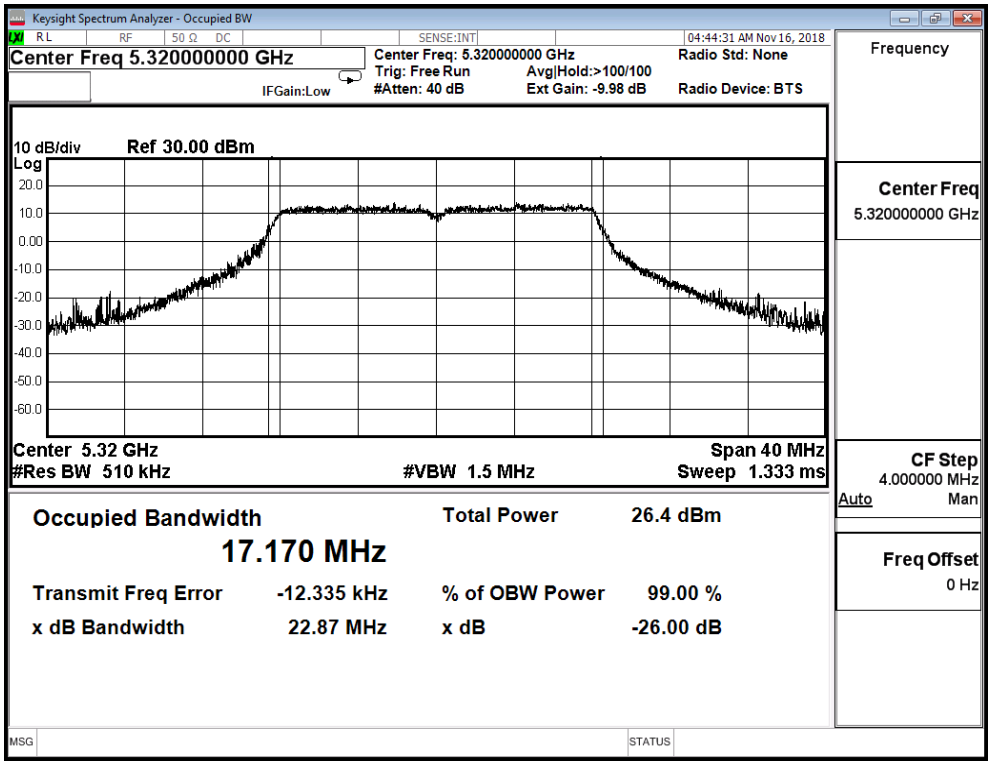
Channel 52



Channel 60



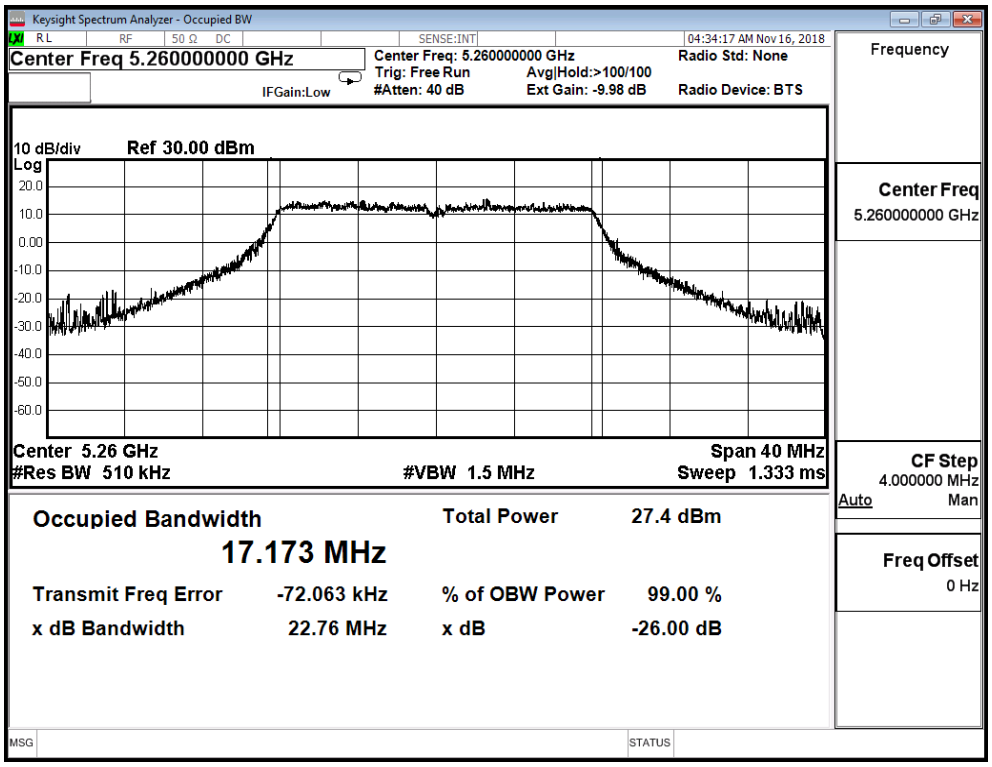
Channel 64



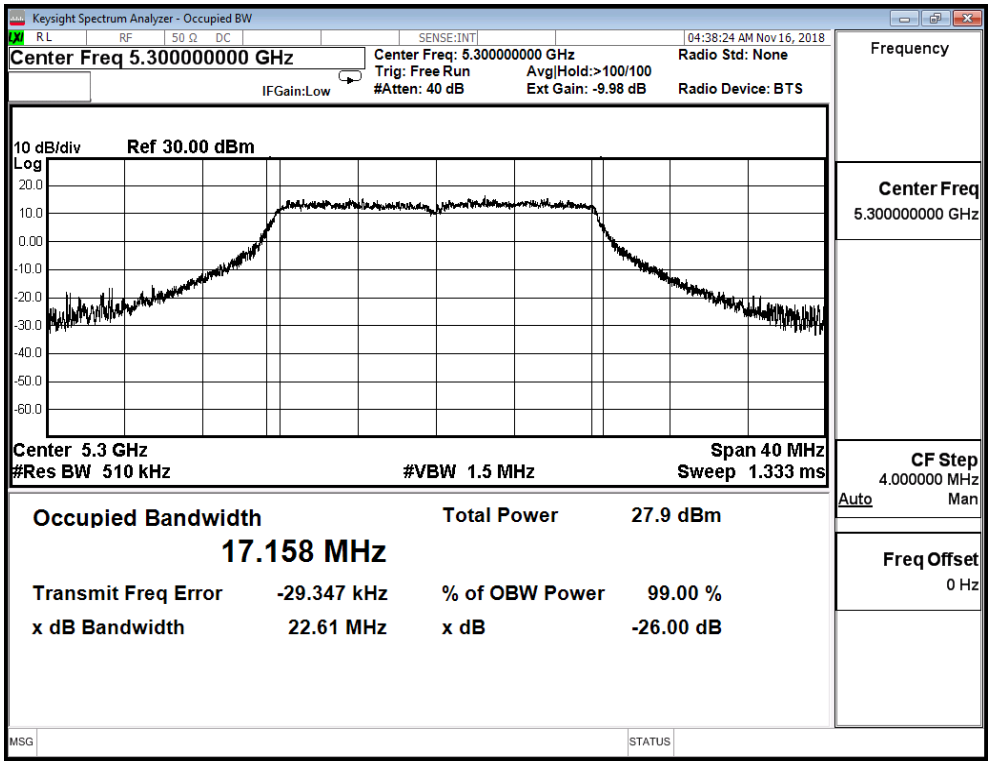
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11a (ANT 5)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
52	5260	17.173	22.760	--
60	5300	17.158	22.610	--
64	5320	17.126	22.760	--

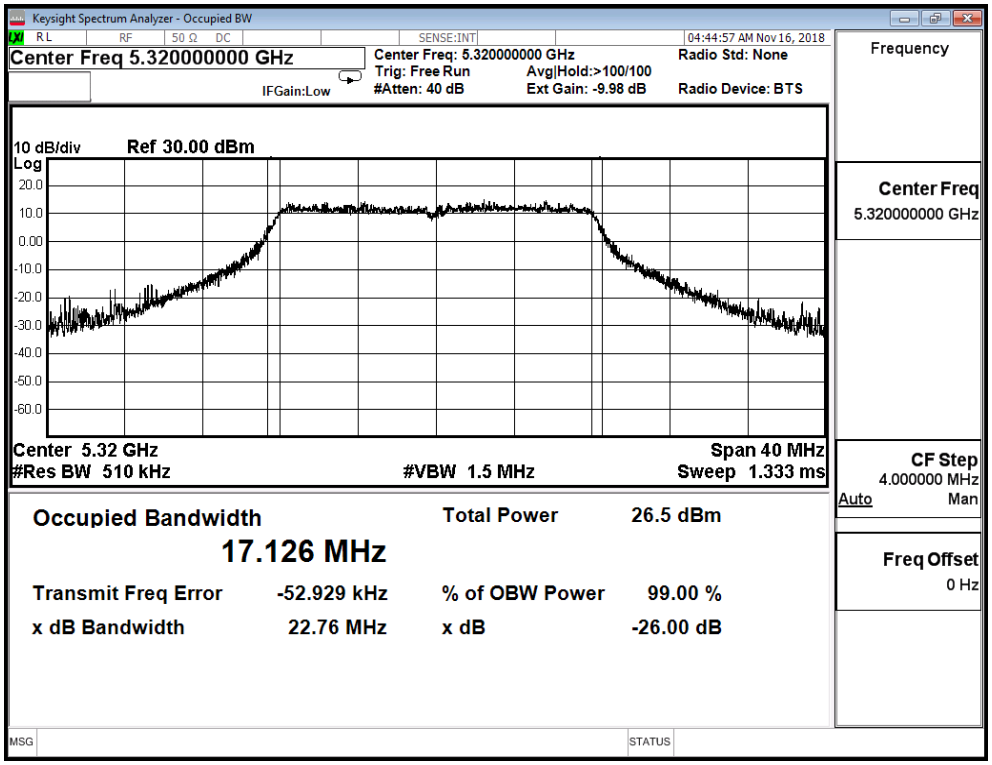
Channel 52



Channel 60



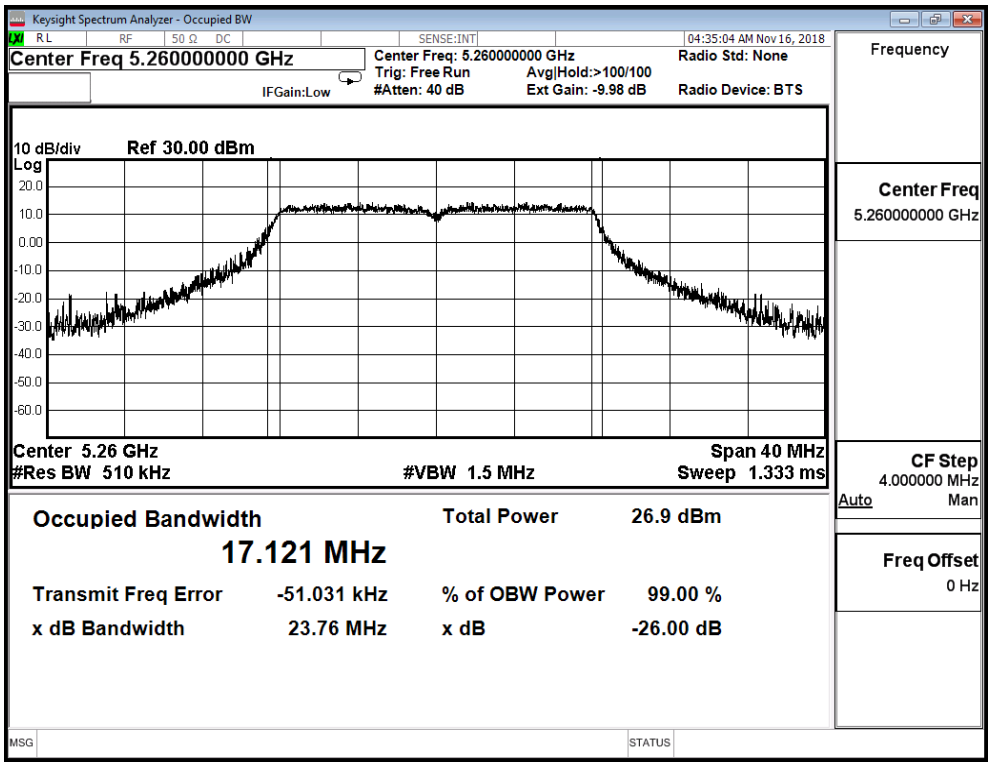
Channel 64



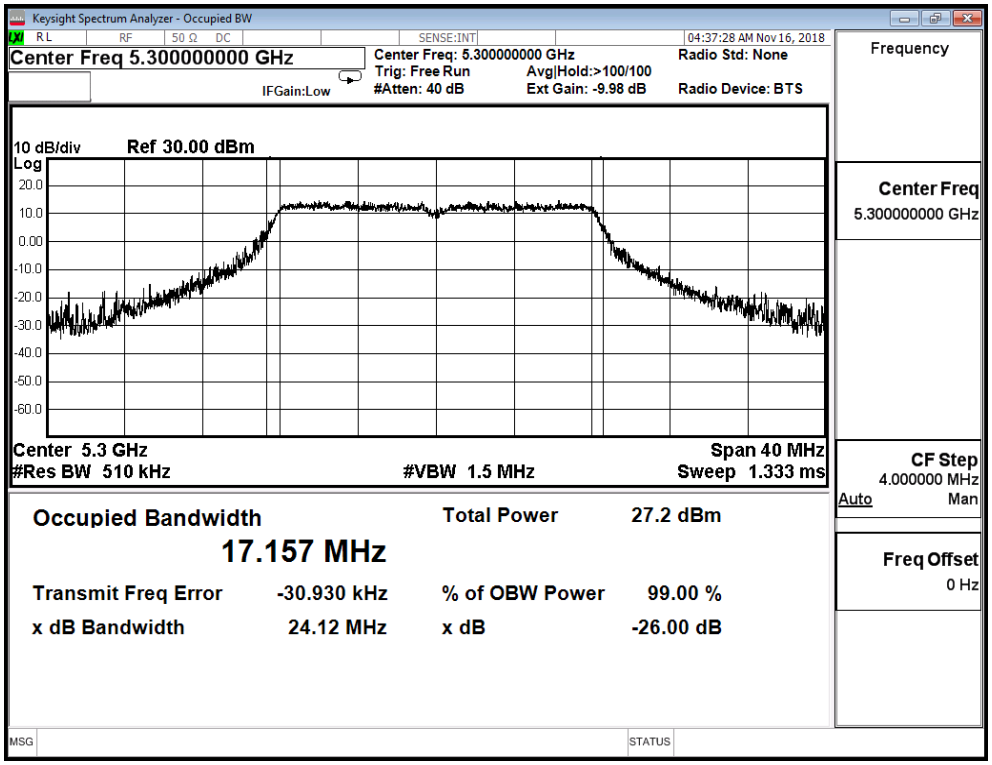
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11a (ANT 6)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
52	5260	17.121	23.760	--
60	5300	17.157	24.120	--
64	5320	17.124	23.450	--

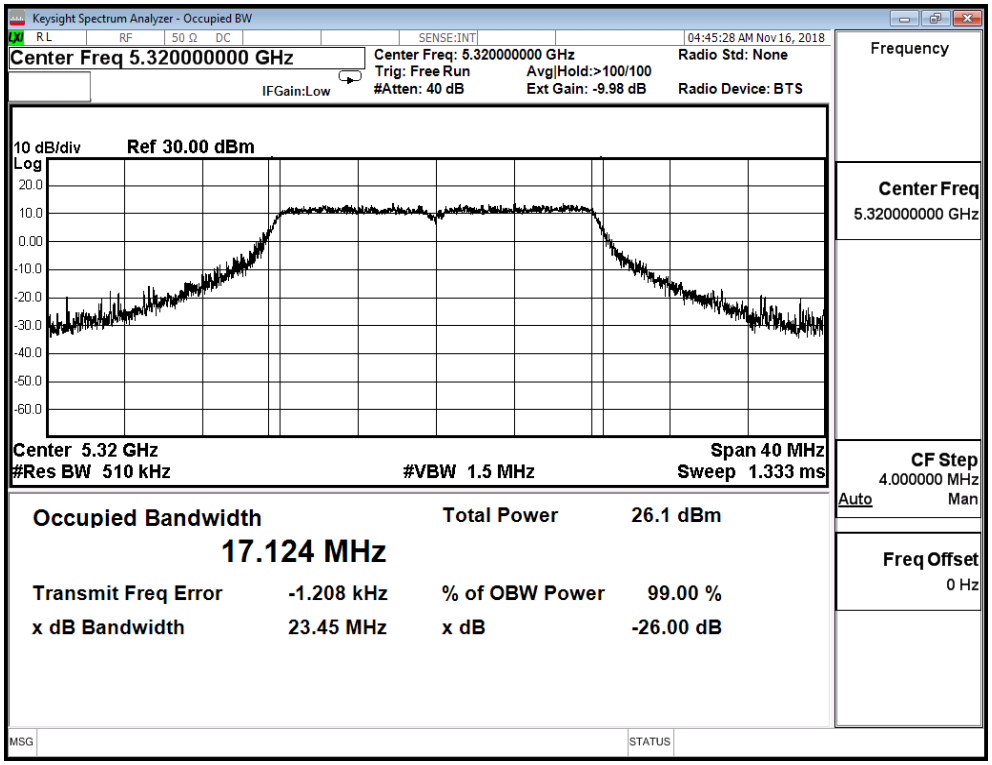
Channel 52



Channel 60



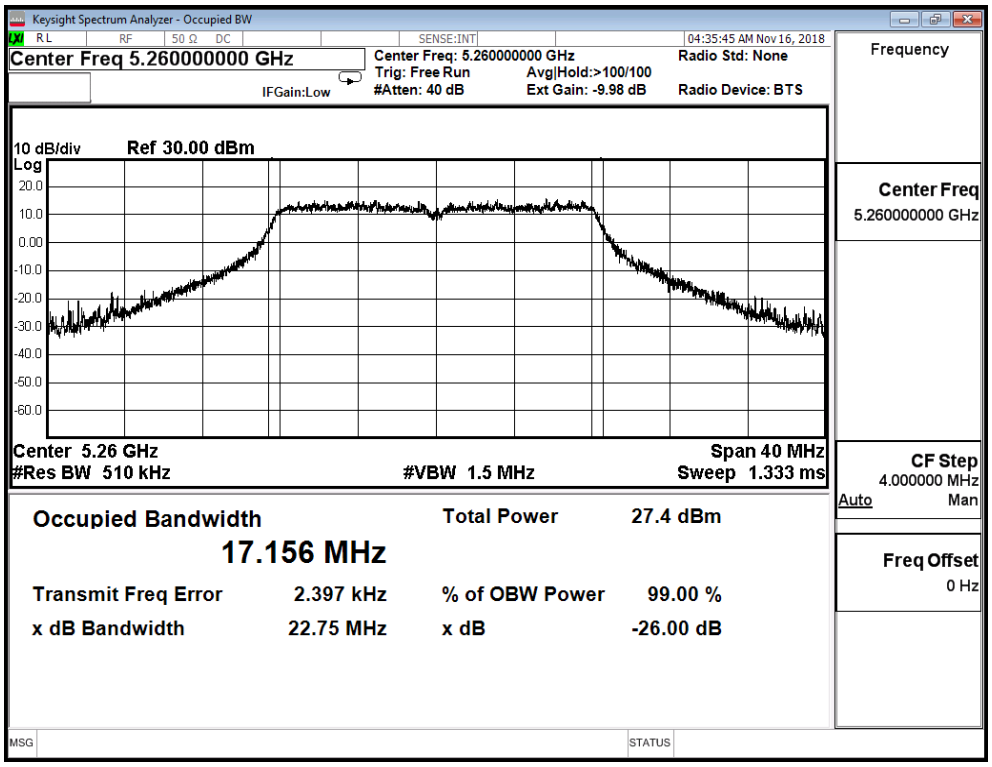
Channel 64



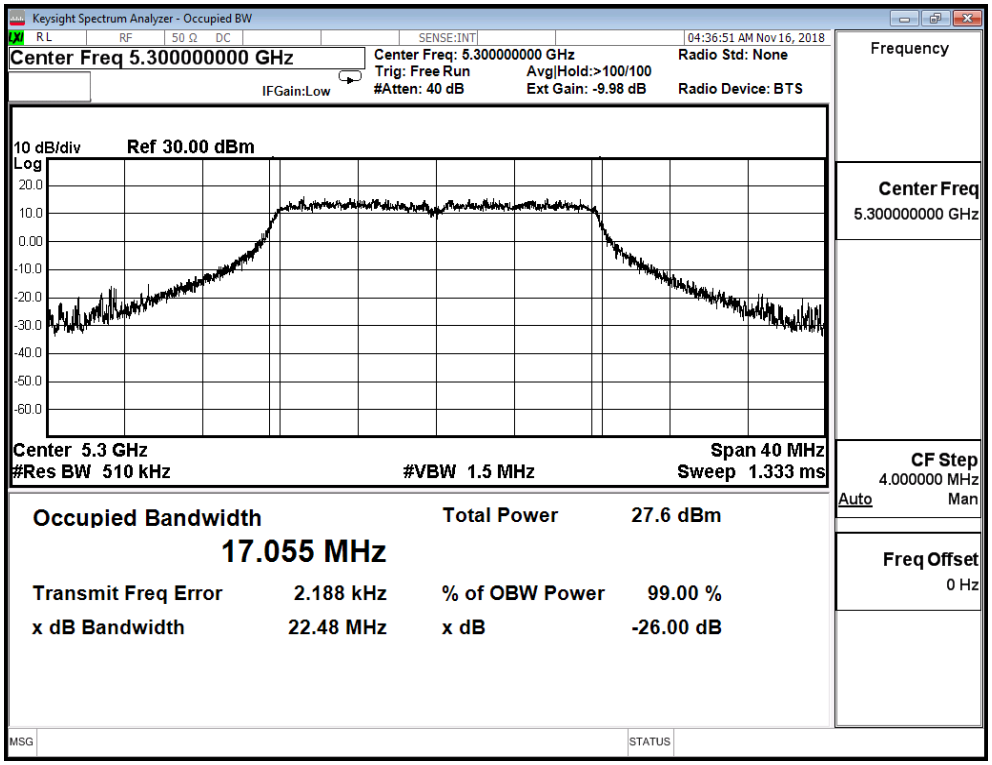
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11a (ANT 8)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
52	5260	17.156	22.750	--
60	5300	17.055	22.480	--
64	5320	17.112	23.020	--

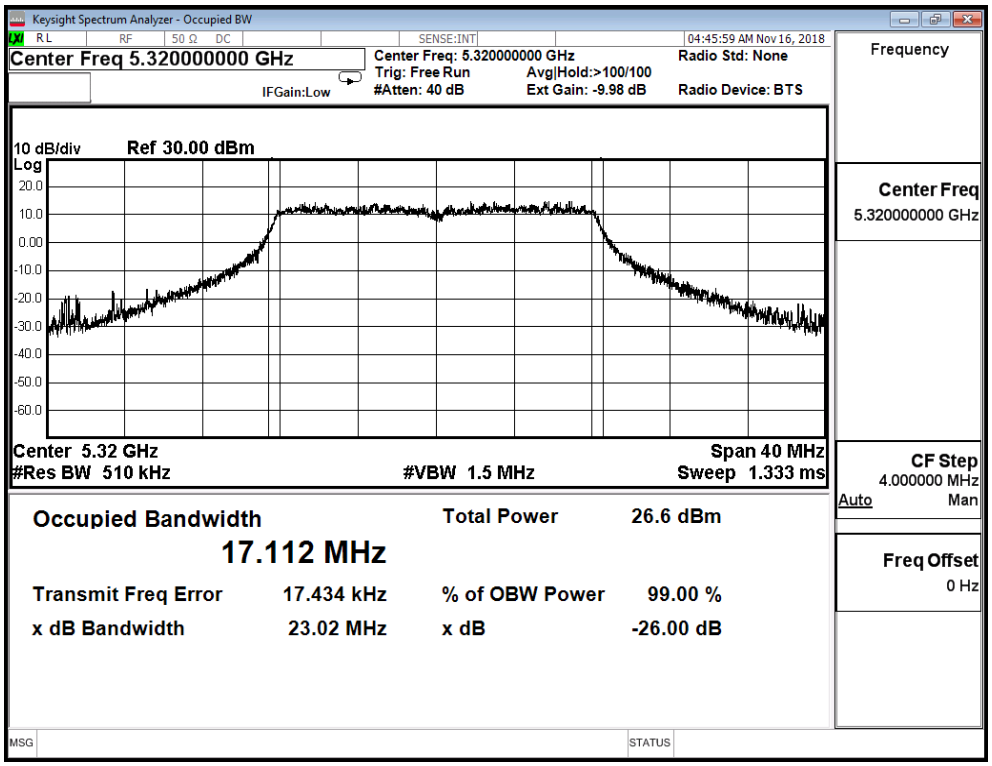
Channel 52



Channel 60



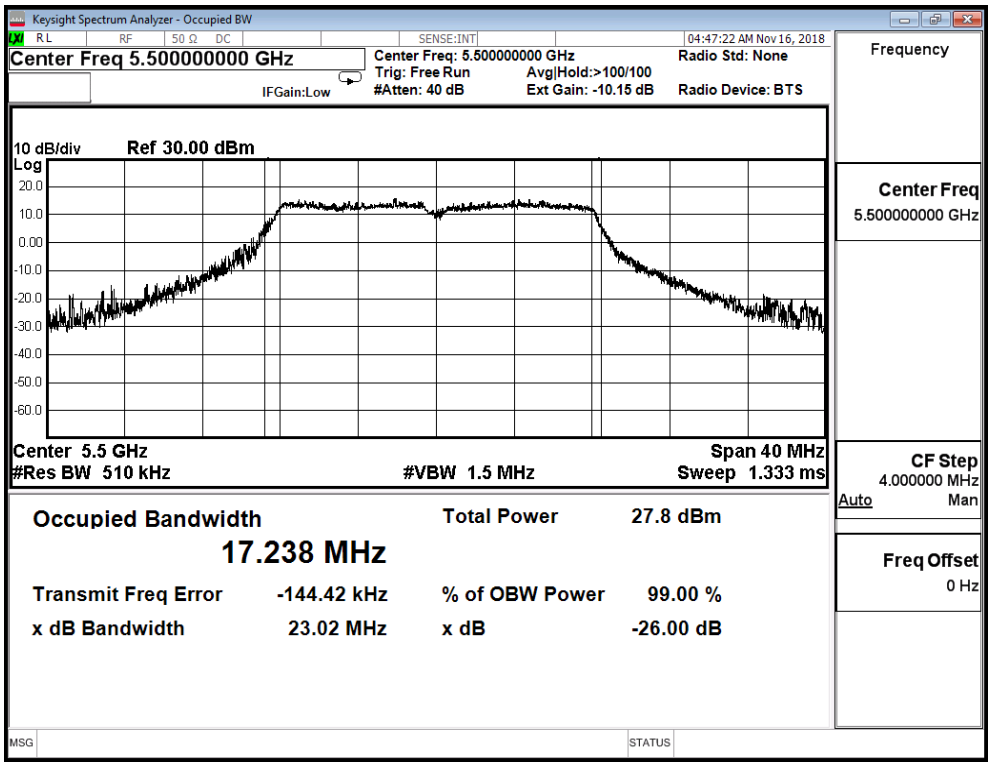
Channel 64



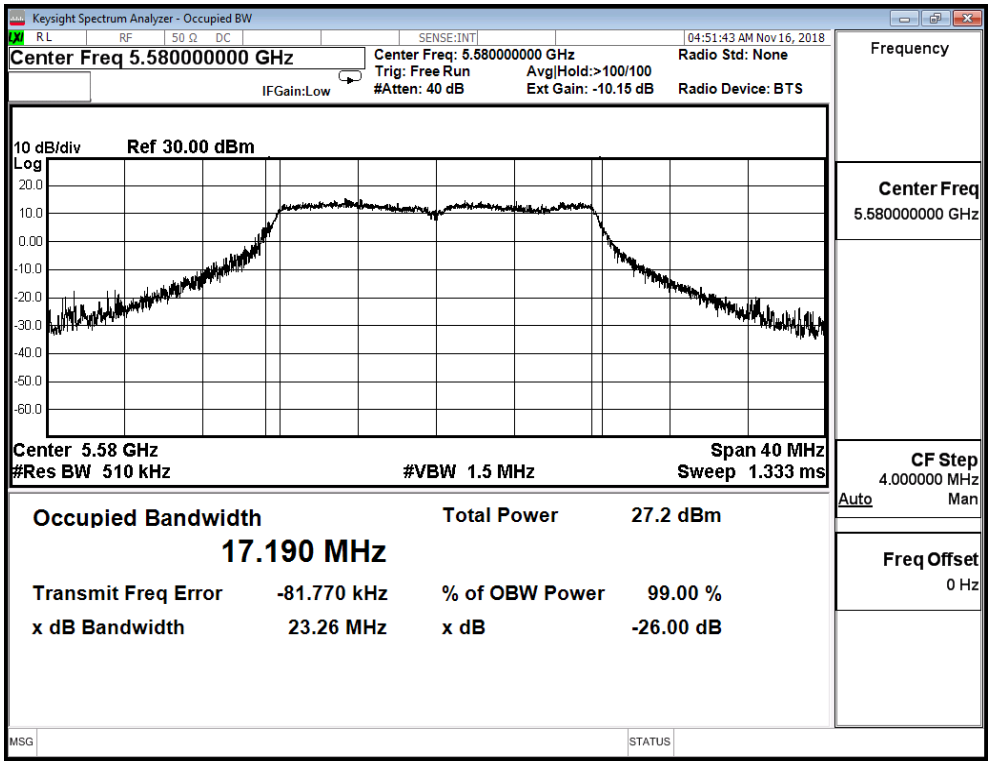
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11a (ANT 0)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
100	5500	17.238	23.020	--
116	5580	17.190	23.260	--
140	5700	17.264	23.750	--
144(Band3)	5720	13.498	16.150	--
144(Band4)	5720	3.498	--	--

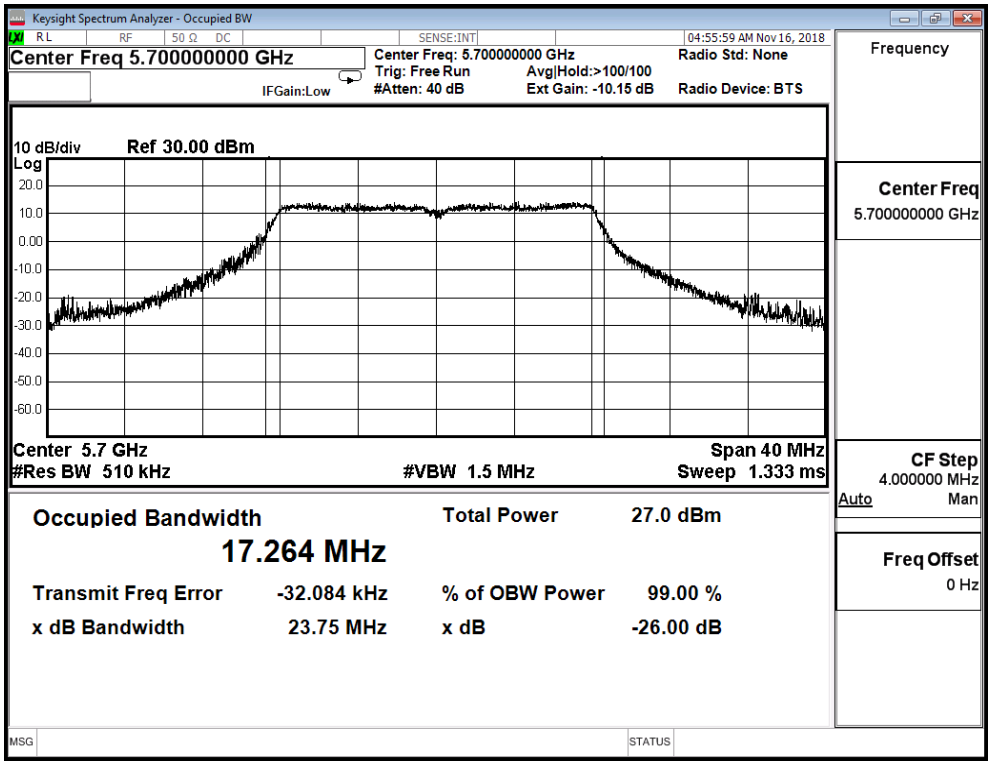
Channel 100



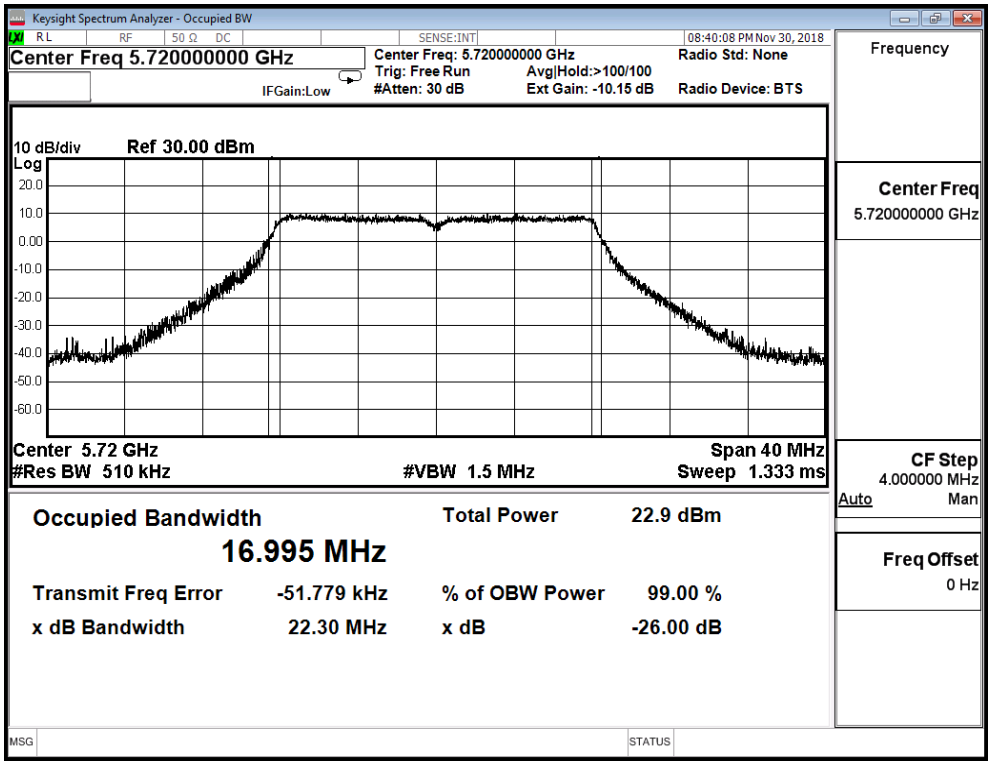
Channel 116



Channel 140



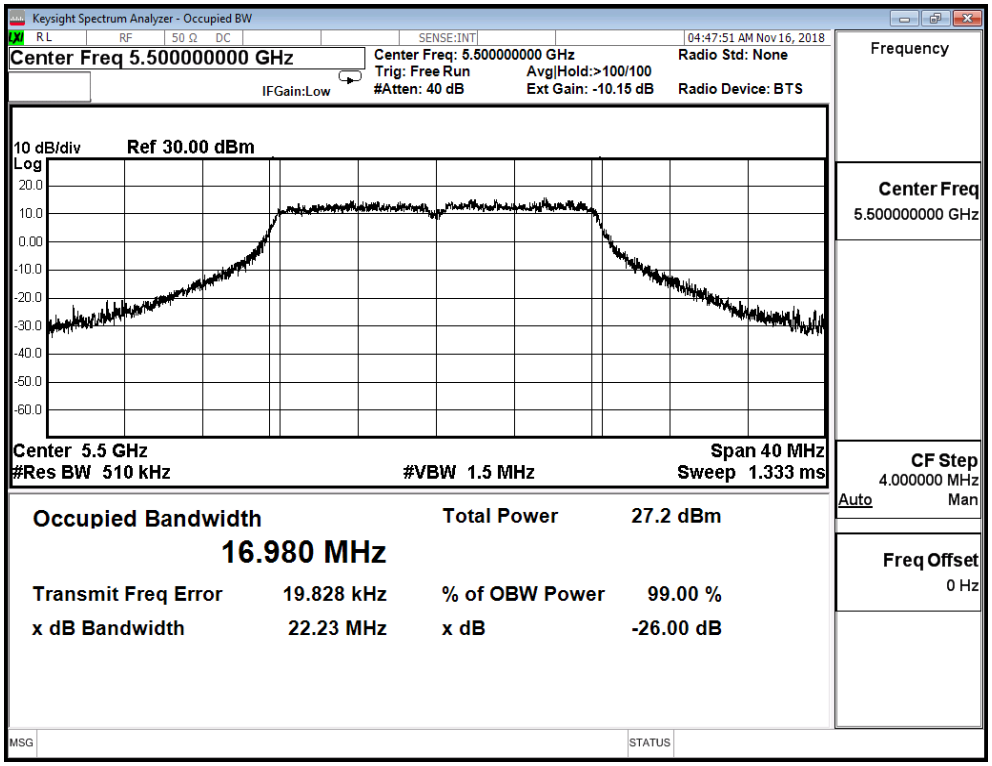
Channel 144


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
08:40:08 PM Nov 30, 2018
Center Freq 5.720000000 GHz
IFGain:Low
Center Freq: 5.720000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -10.15 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
5.720000000 GHz
Center 5.72 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
16.995 MHz
Total Power 22.9 dBm
Freq Offset
0 Hz
Transmit Freq Error -51.779 kHz
% of OBW Power 99.00 %
x dB Bandwidth 22.30 MHz
x dB -26.00 dB
MSG
STATUS

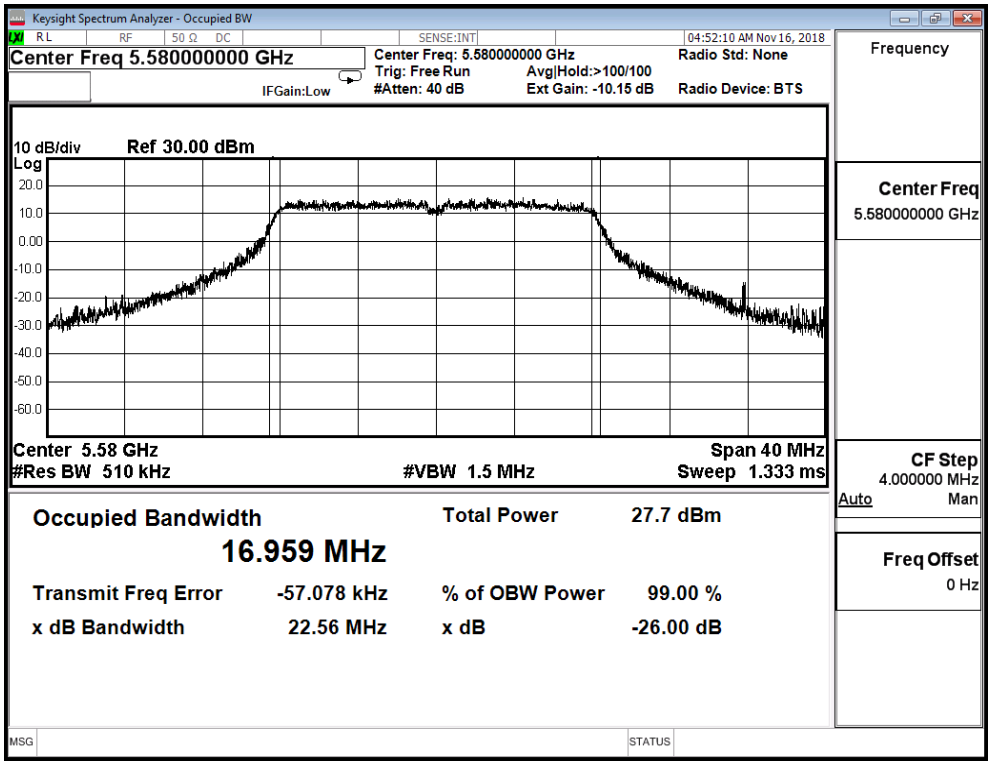
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11a (ANT 1)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
100	5500	16.980	22.230	--
116	5580	16.959	22.560	--
140	5700	17.007	22.260	--
144(Band3)	5720	13.436	15.565	--
144(Band4)	5720	3.436	--	--

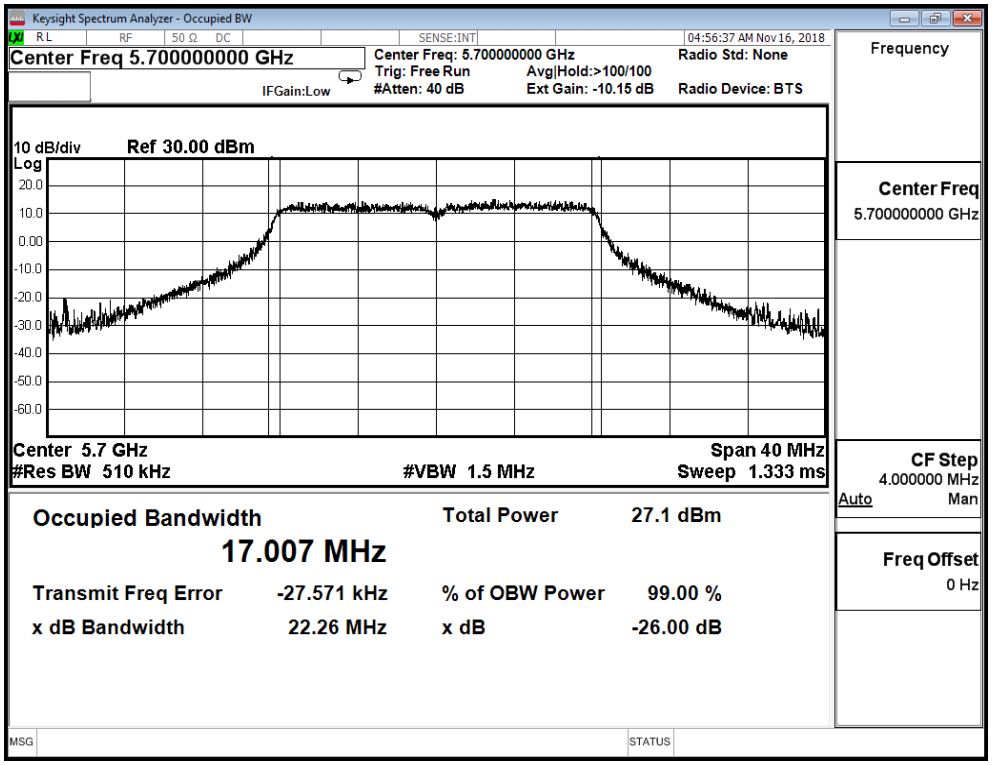
Channel 100



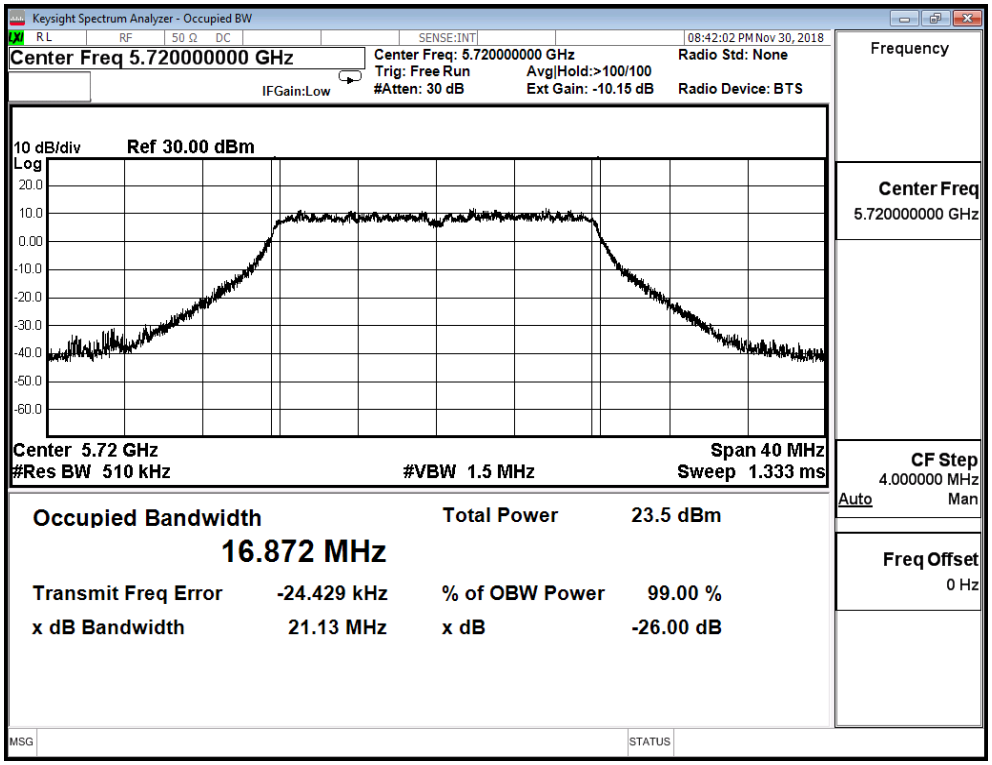
Channel 116



Channel 140



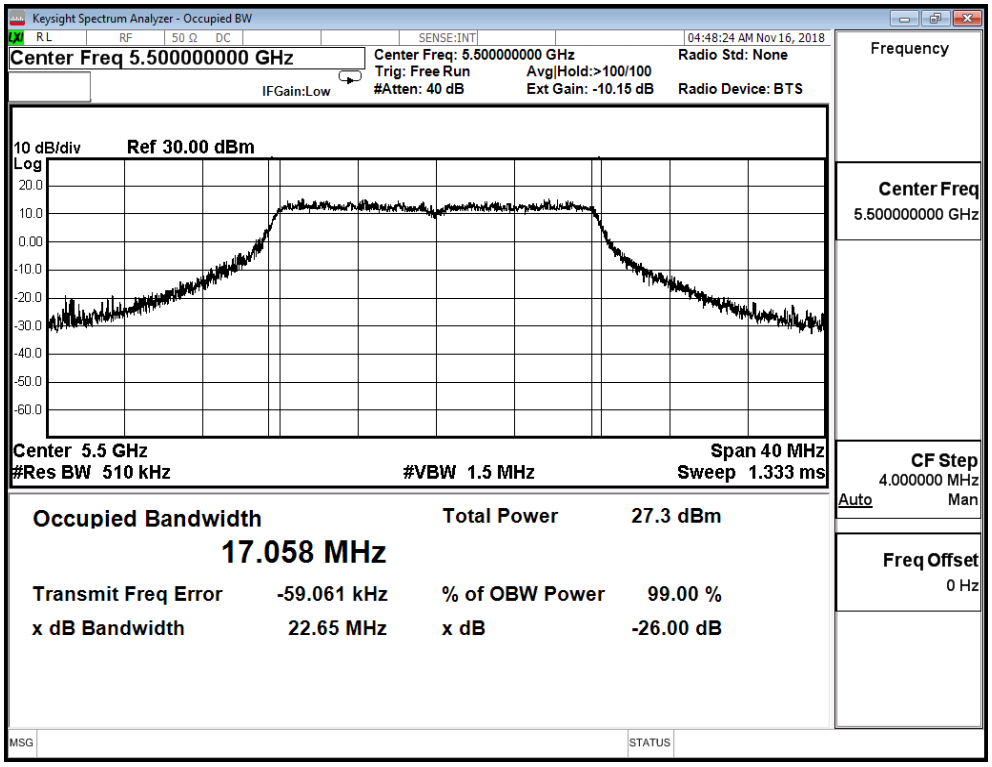
Channel 144


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
08:42:02 PM Nov 30, 2018
Center Freq 5.720000000 GHz
Center Freq: 5.720000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -10.15 dB
Radio Std: None
Radio Device: BTS
IFGain:Low
Frequency
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
5.720000000 GHz
Center 5.72 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
16.872 MHz
Total Power 23.5 dBm
Transmit Freq Error -24.429 kHz
% of OBW Power 99.00 %
x dB Bandwidth 21.13 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

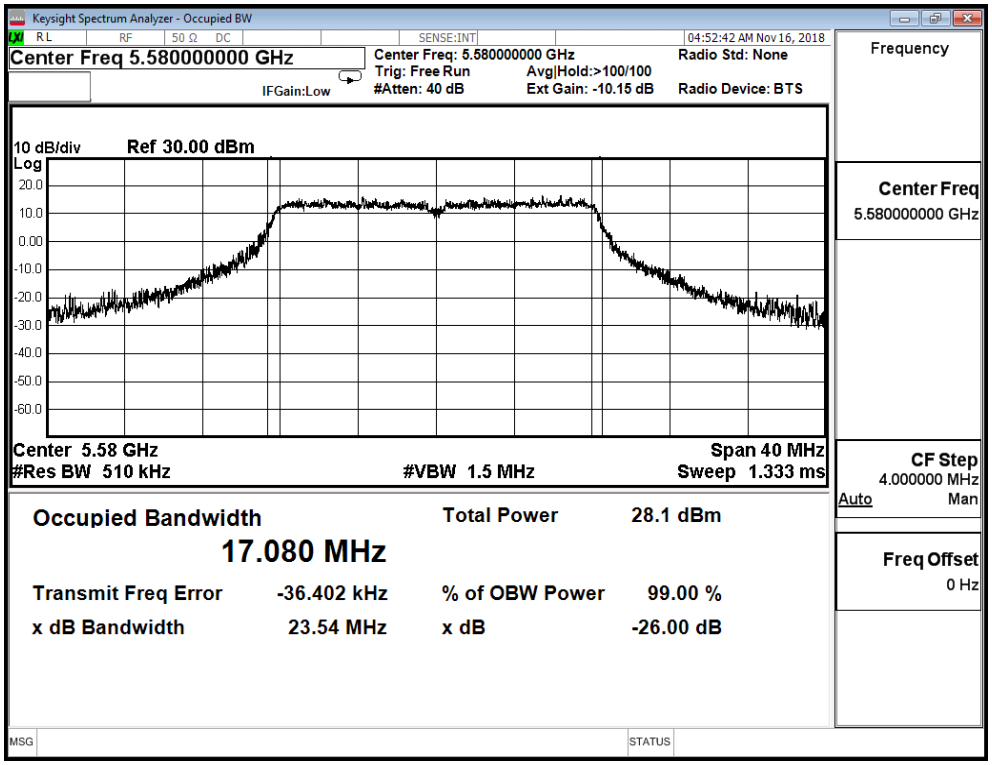
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11a (ANT 2)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
100	5500	17.058	22.650	--
116	5580	17.080	23.540	--
140	5700	17.032	22.290	--
144(Band3)	5720	13.464	15.565	--
144(Band4)	5720	3.464	--	--

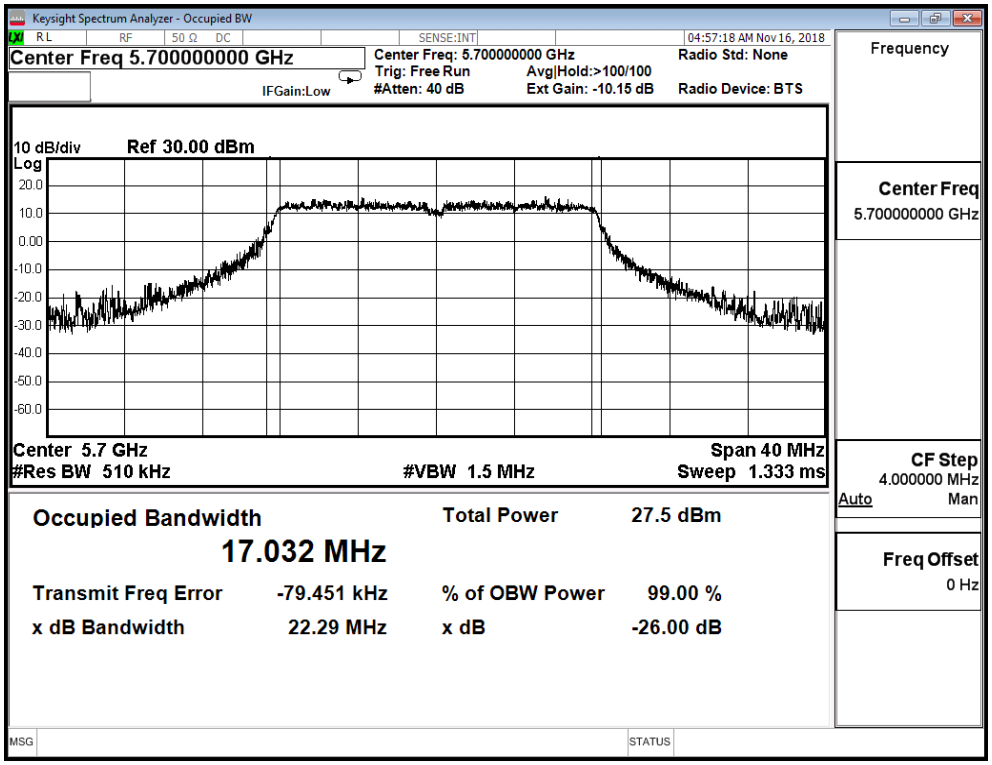
Channel 100



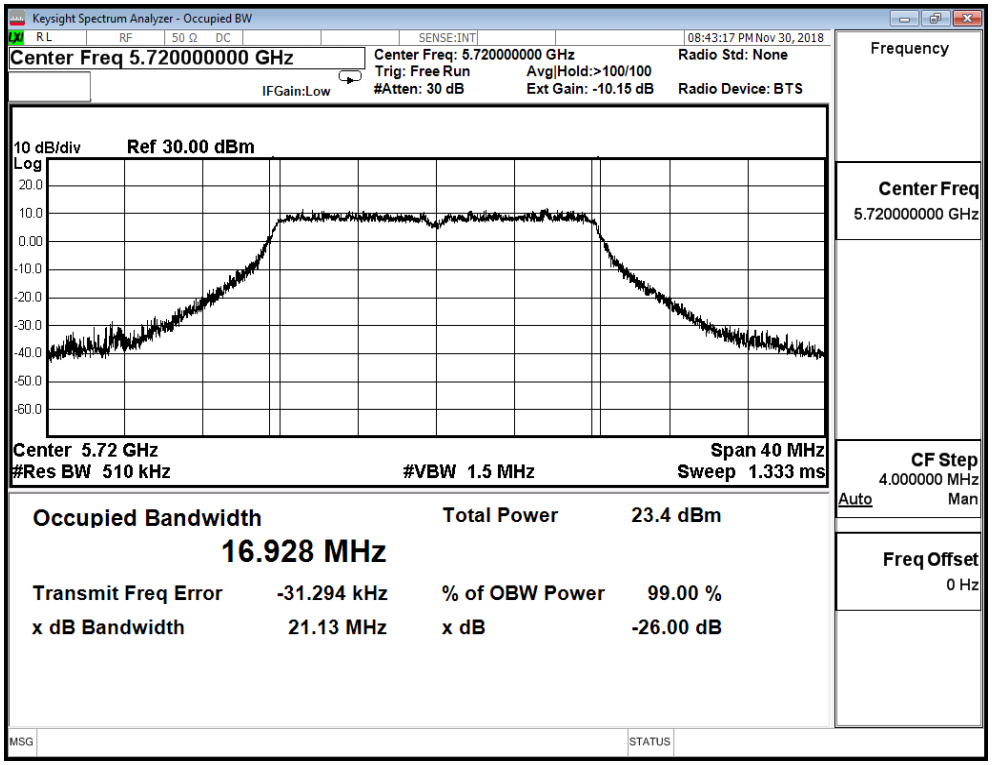
Channel 116



Channel 140



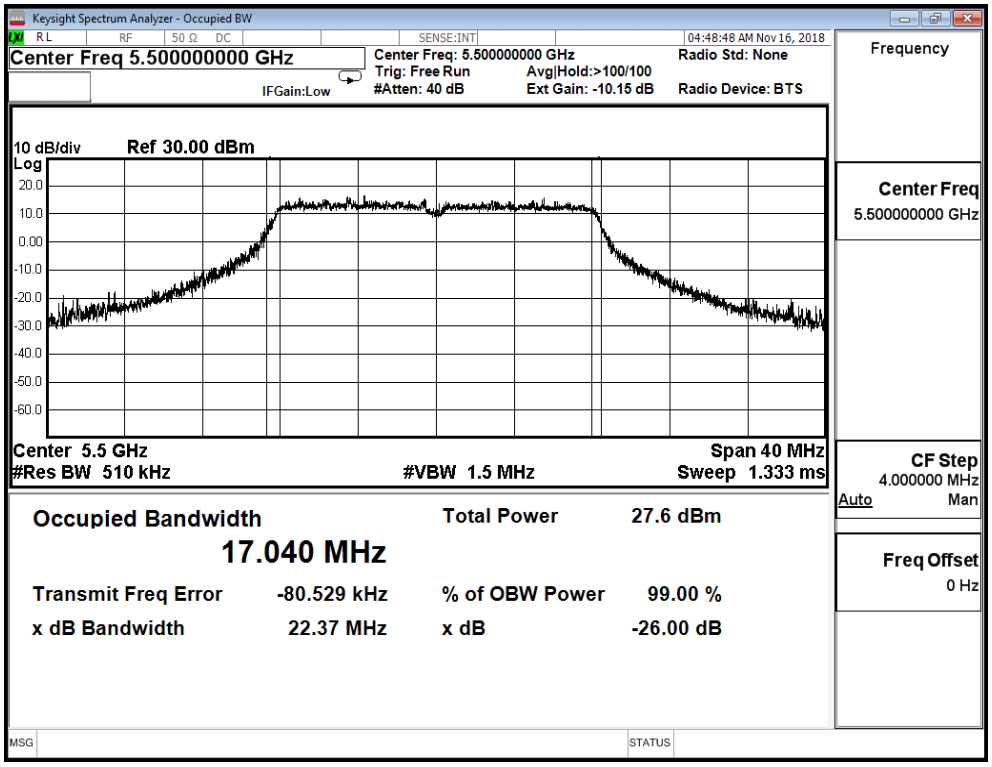
Channel 144


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
08:43:17 PM Nov 30, 2018
Center Freq 5.720000000 GHz
IFGain:Low
Center Freq: 5.720000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -10.15 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
5.720000000 GHz
Center 5.72 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
16.928 MHz
Total Power 23.4 dBm
Transmit Freq Error -31.294 kHz
% of OBW Power 99.00 %
x dB Bandwidth 21.13 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

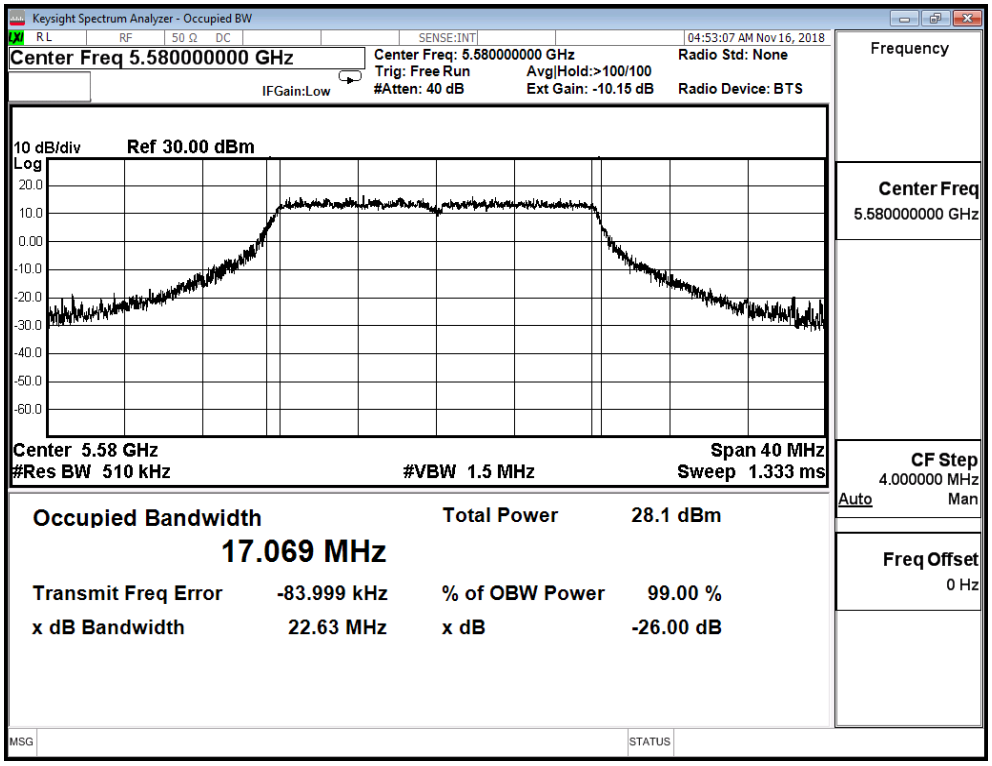
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11a (ANT 3)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
100	5500	17.040	22.370	--
116	5580	17.069	22.630	--
140	5700	17.019	22.430	--
144(Band3)	5720	13.479	15.770	--
144(Band4)	5720	3.479	--	--

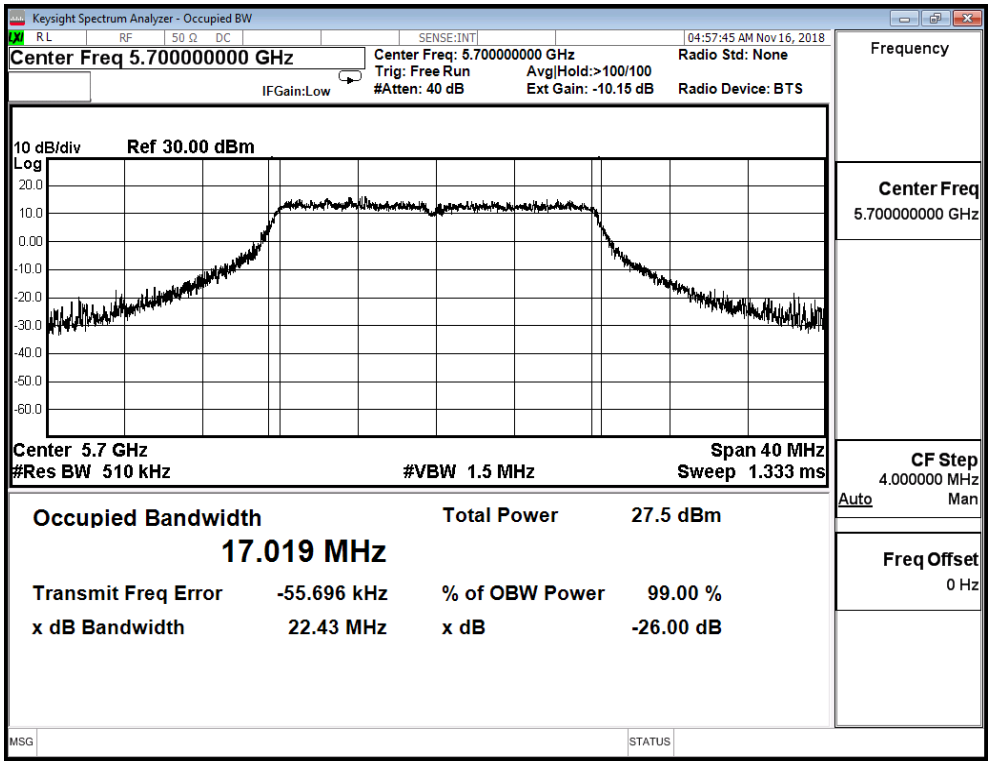
Channel 100



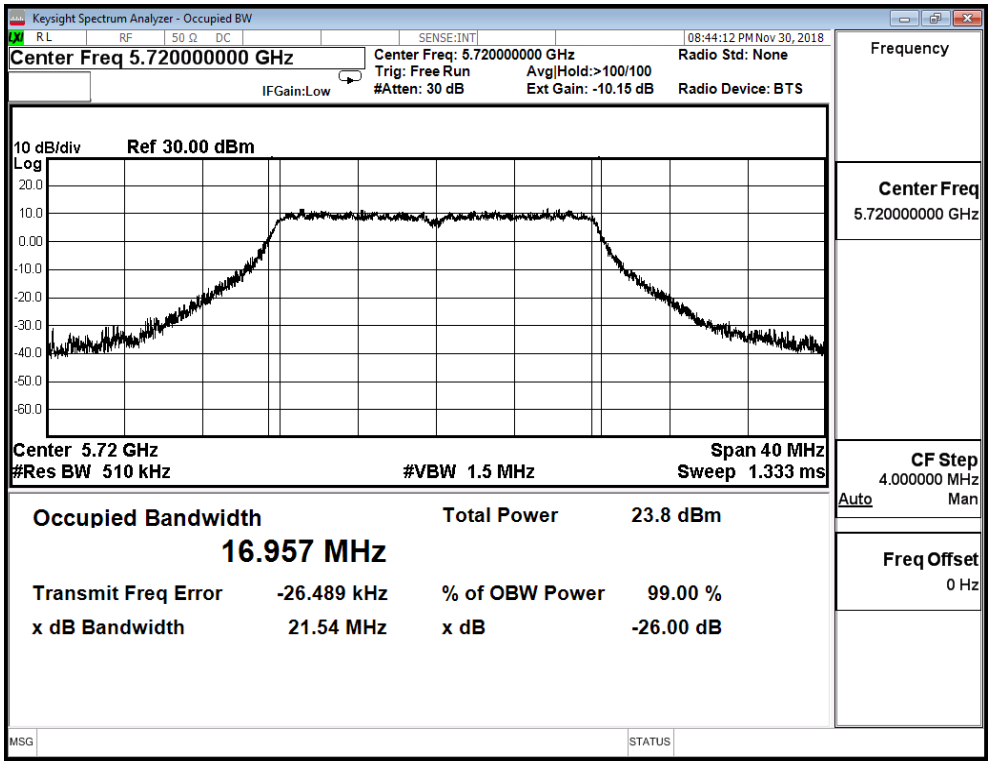
Channel 116



Channel 140



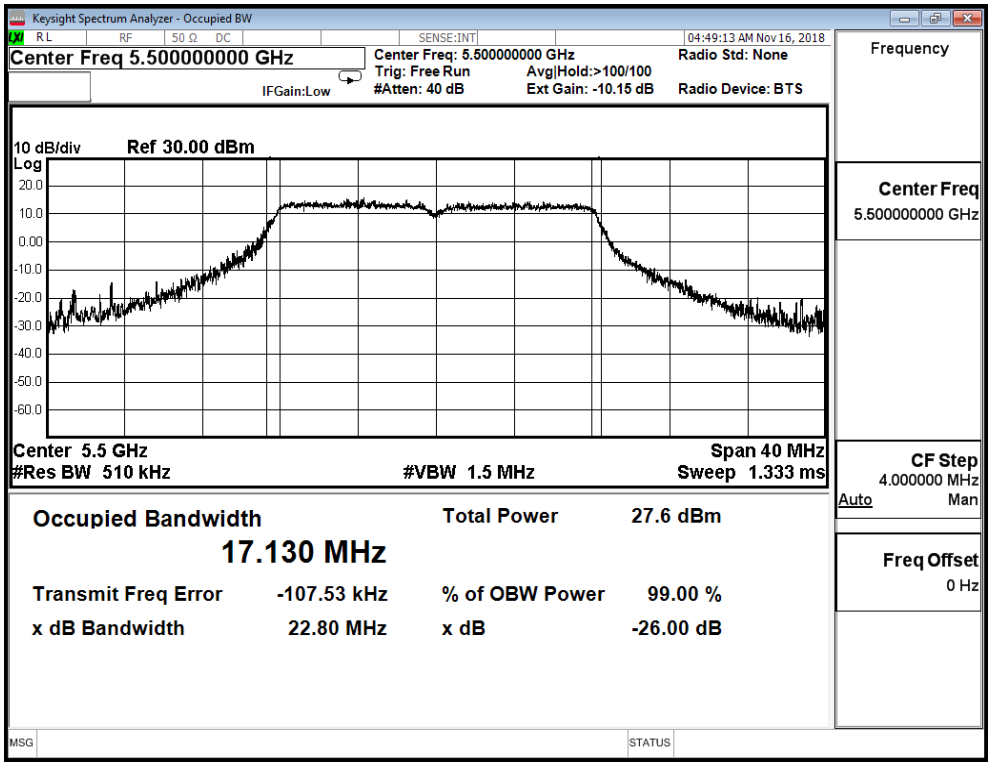
Channel 144


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
08:44:12 PM Nov 30, 2018
Center Freq 5.720000000 GHz
IFGain:Low
Center Freq: 5.720000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -10.15 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
5.720000000 GHz
Center 5.72 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
16.957 MHz
Total Power 23.8 dBm
Transmit Freq Error -26.489 kHz
% of OBW Power 99.00 %
x dB Bandwidth 21.54 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

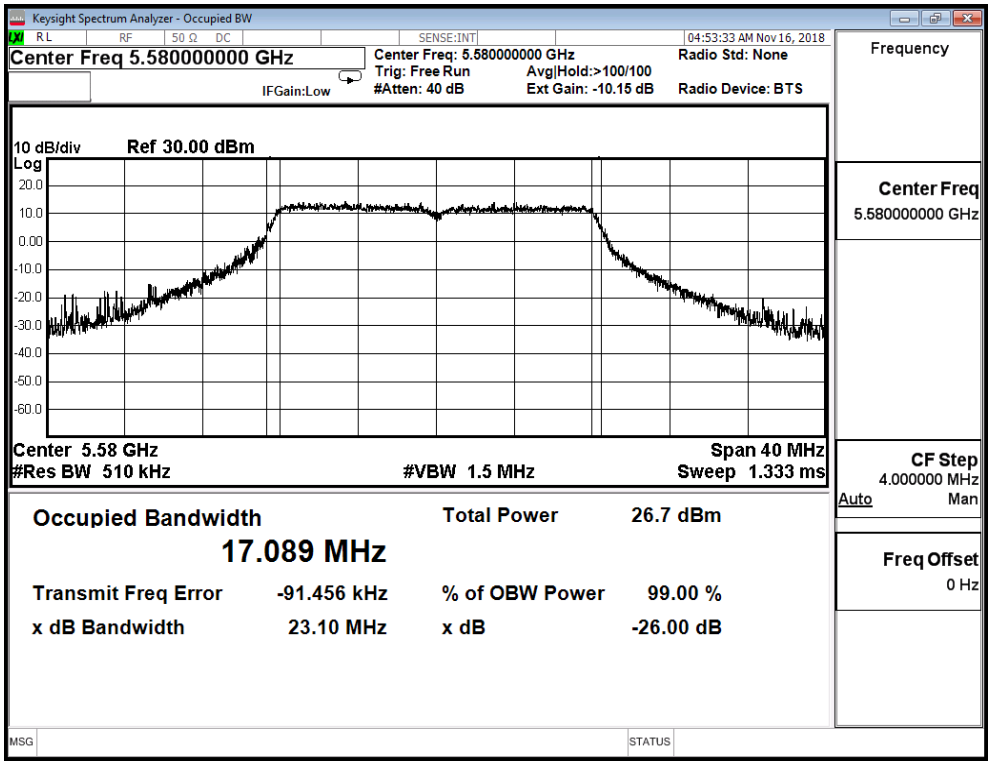
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11a (ANT 4)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
100	5500	17.130	22.800	--
116	5580	17.089	23.100	--
140	5700	17.203	23.190	--
144(Band3)	5720	13.524	15.945	--
144(Band4)	5720	3.524	--	--

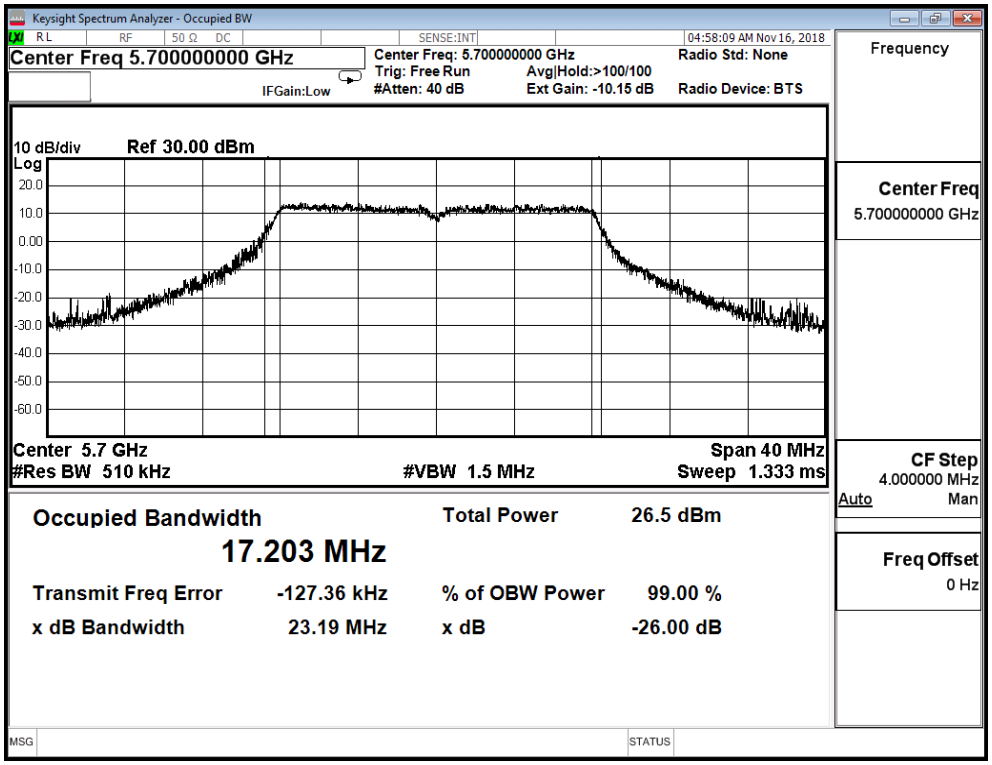
Channel 100



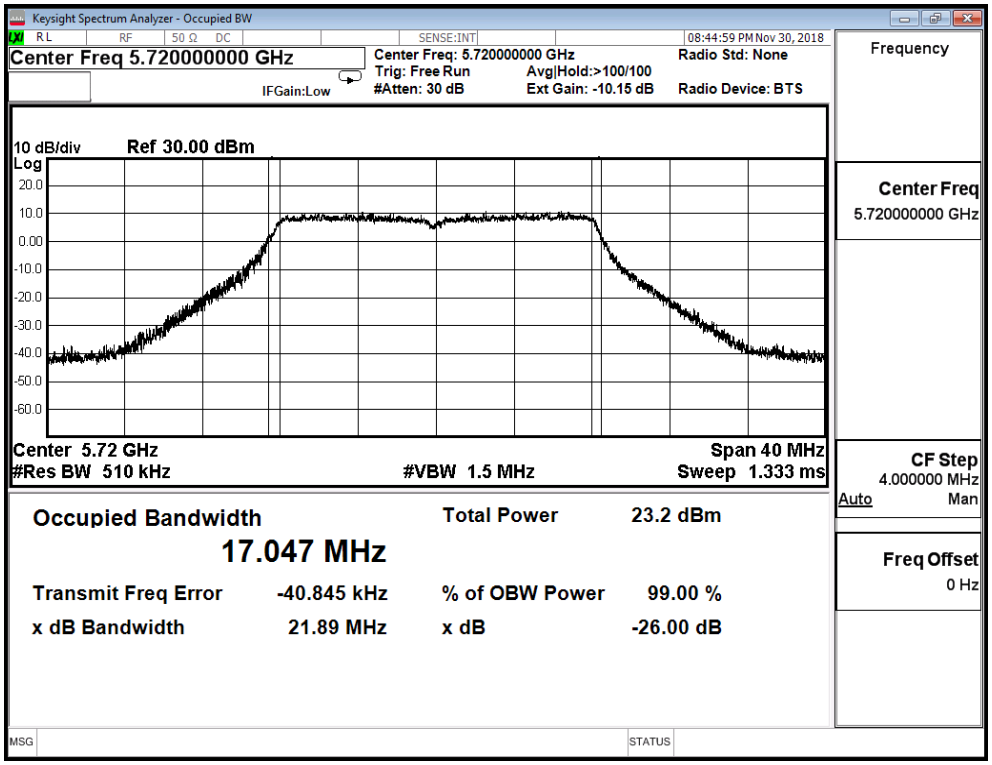
Channel 116



Channel 140



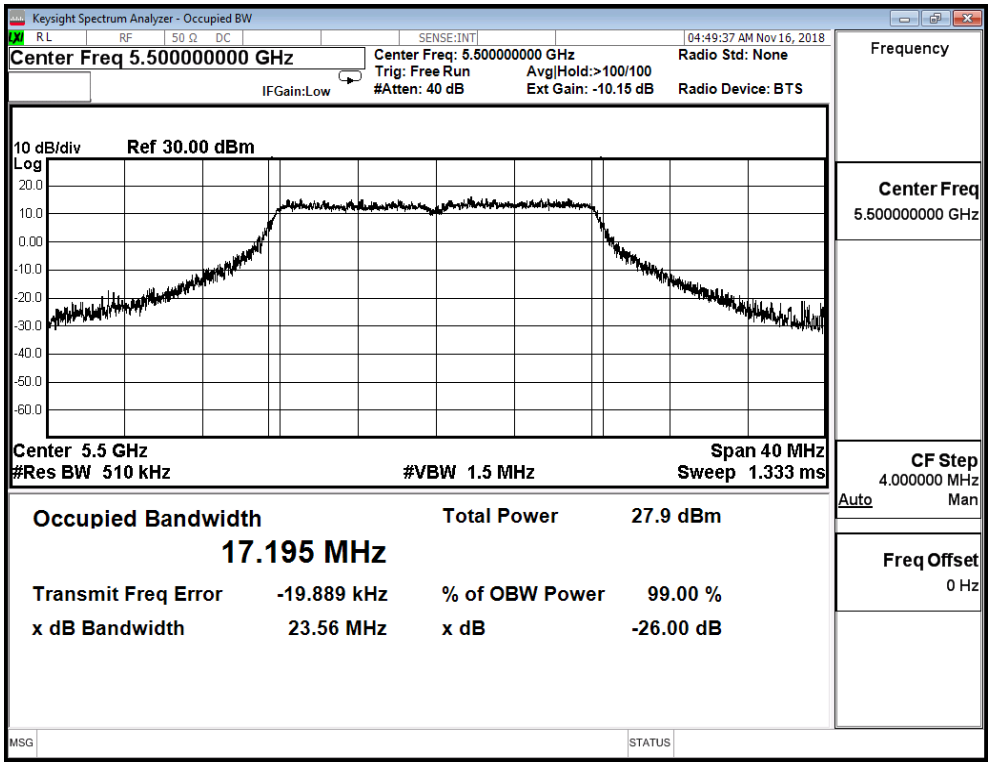
Channel 144


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
08:44:59 PM Nov 30, 2018
Center Freq 5.720000000 GHz
Center Freq: 5.720000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -10.15 dB
Radio Std: None
Radio Device: BTS
IFGain:Low
Frequency
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
5.720000000 GHz
Center 5.72 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
17.047 MHz
Total Power 23.2 dBm
Transmit Freq Error -40.845 kHz
% of OBW Power 99.00 %
x dB Bandwidth 21.89 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

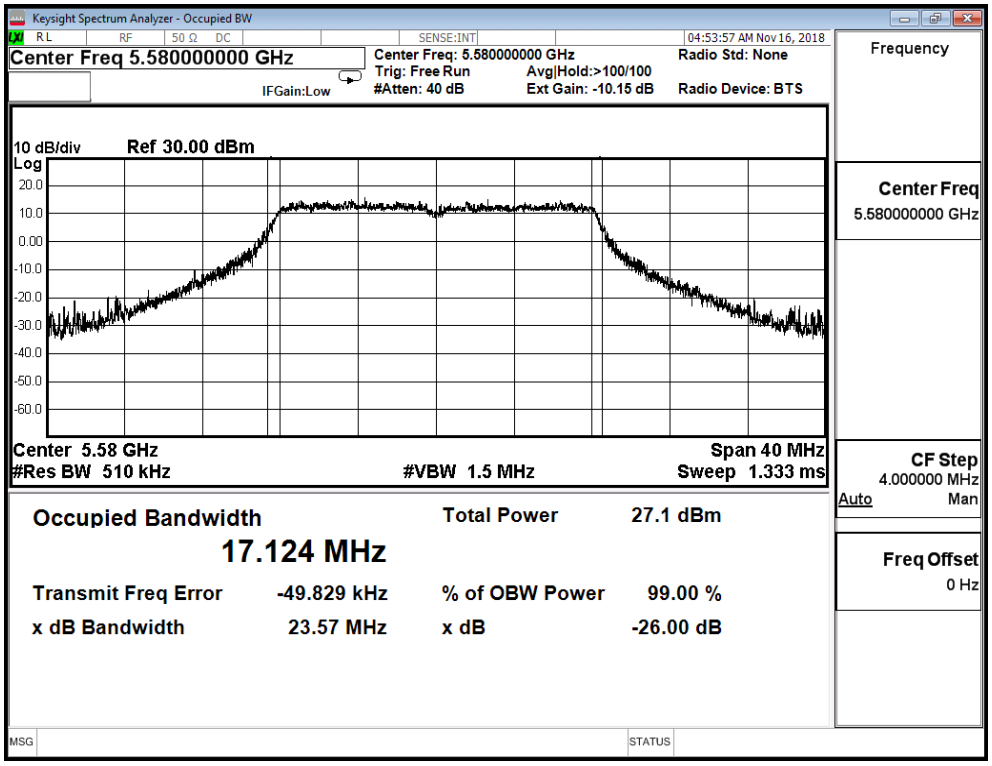
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11a (ANT 5)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
100	5500	17.195	23.560	--
116	5580	17.124	23.570	--
140	5700	17.244	23.610	--
144(Band3)	5720	13.505	15.775	--
144(Band4)	5720	3.505	--	--

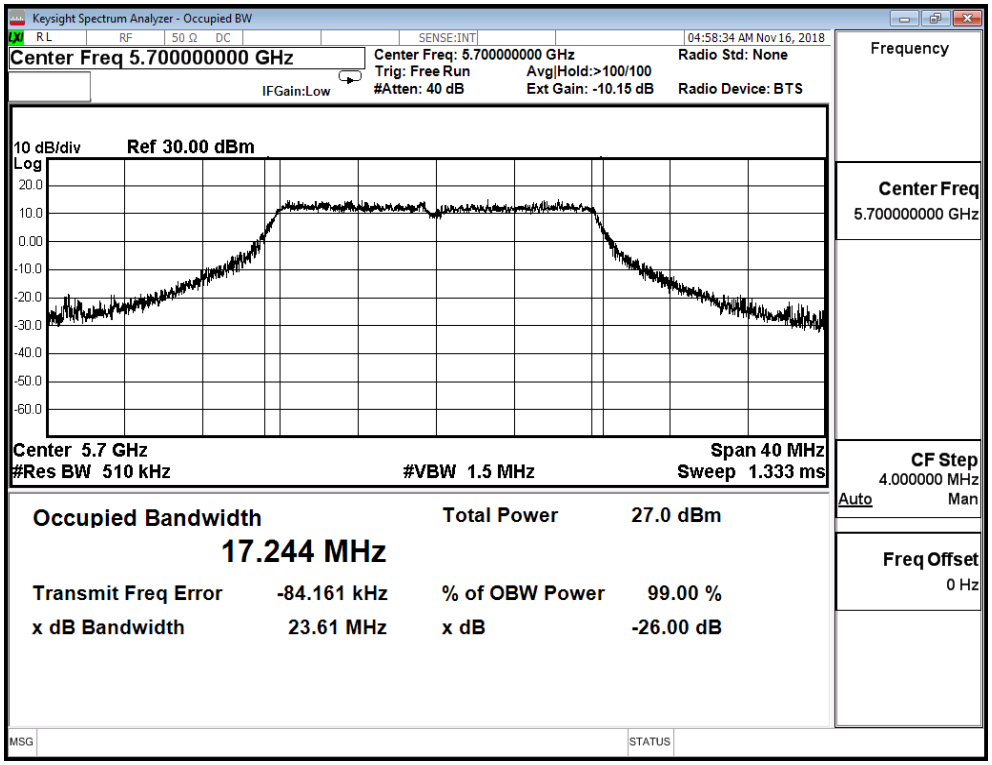
Channel 100



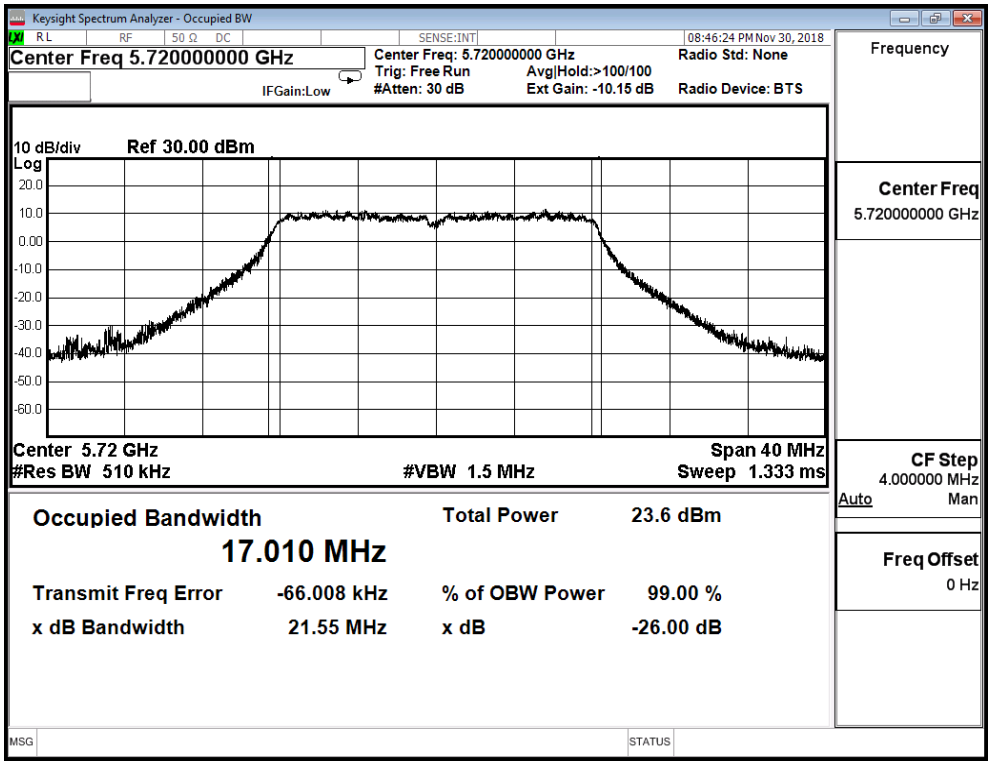
Channel 116



Channel 140



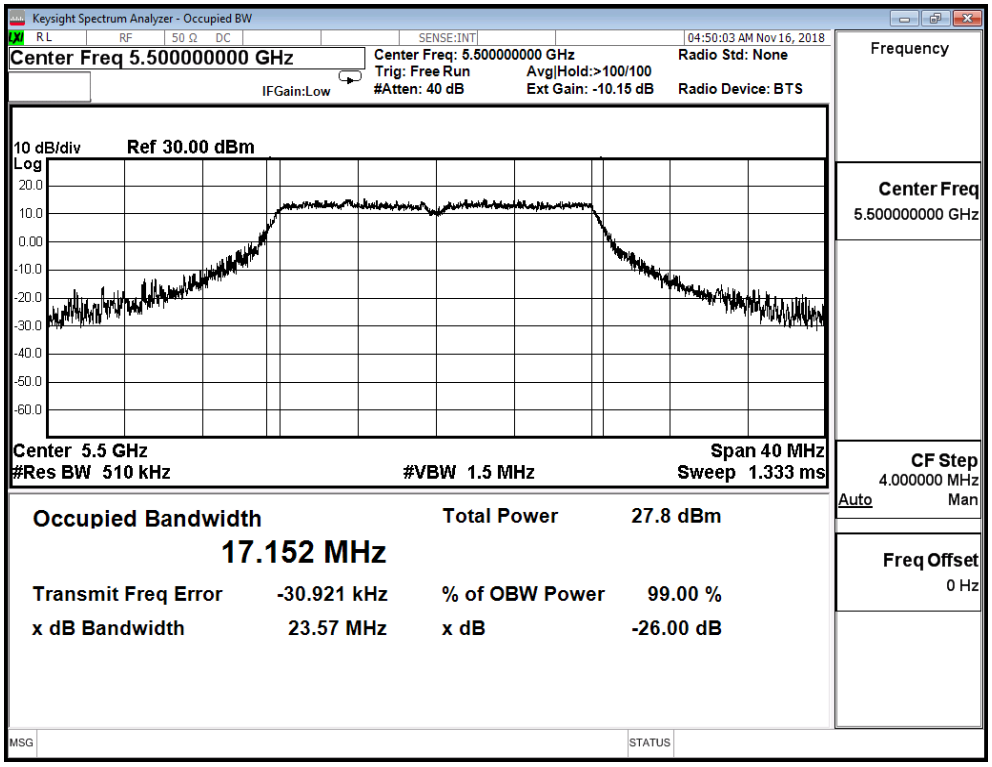
Channel 144


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
08:46:24 PM Nov 30, 2018
Center Freq 5.720000000 GHz
IFGain:Low
Center Freq: 5.720000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -10.15 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
5.720000000 GHz
Center 5.72 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
17.010 MHz
Total Power 23.6 dBm
Freq Offset
0 Hz
Transmit Freq Error -66.008 kHz
% of OBW Power 99.00 %
x dB Bandwidth 21.55 MHz
x dB -26.00 dB
MSG
STATUS

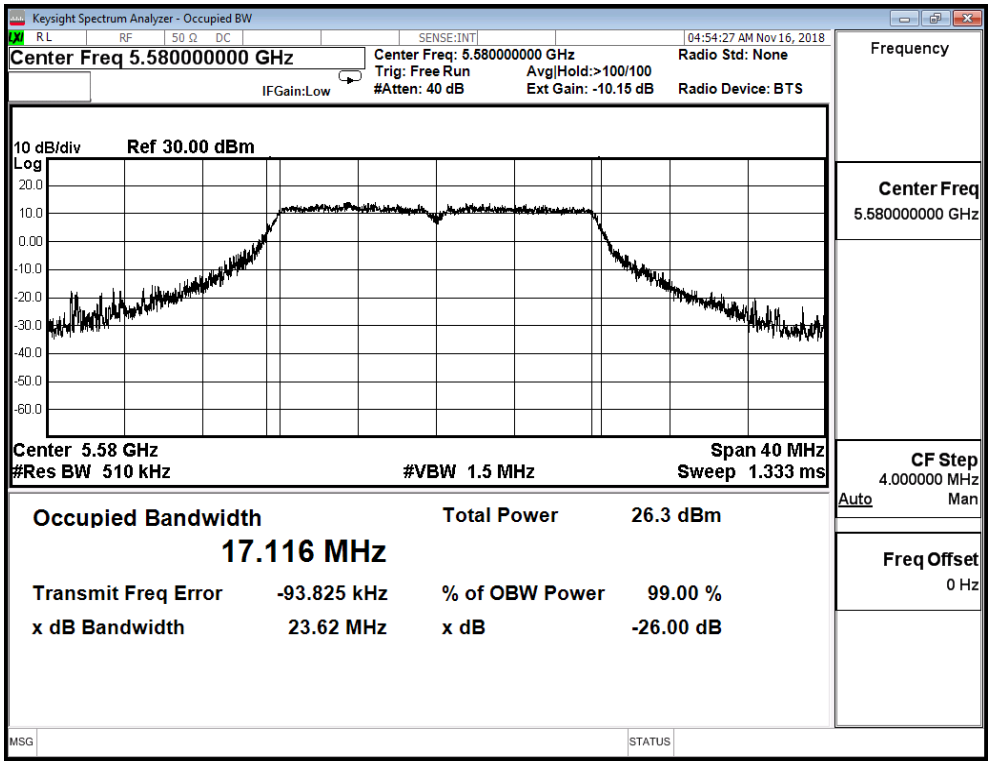
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11a (ANT 6)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
100	5500	17.152	23.570	--
116	5580	17.116	23.620	--
140	5700	17.258	23.810	--
144(Band3)	5720	13.505	15.935	--
144(Band4)	5720	3.505	--	--

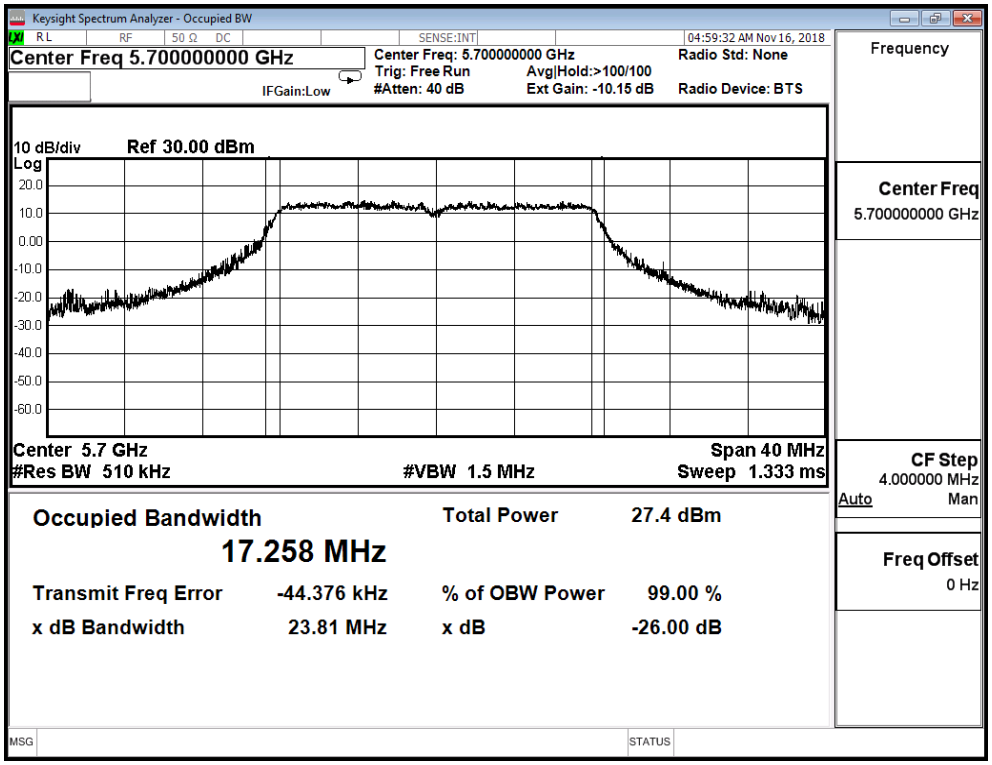
Channel 100



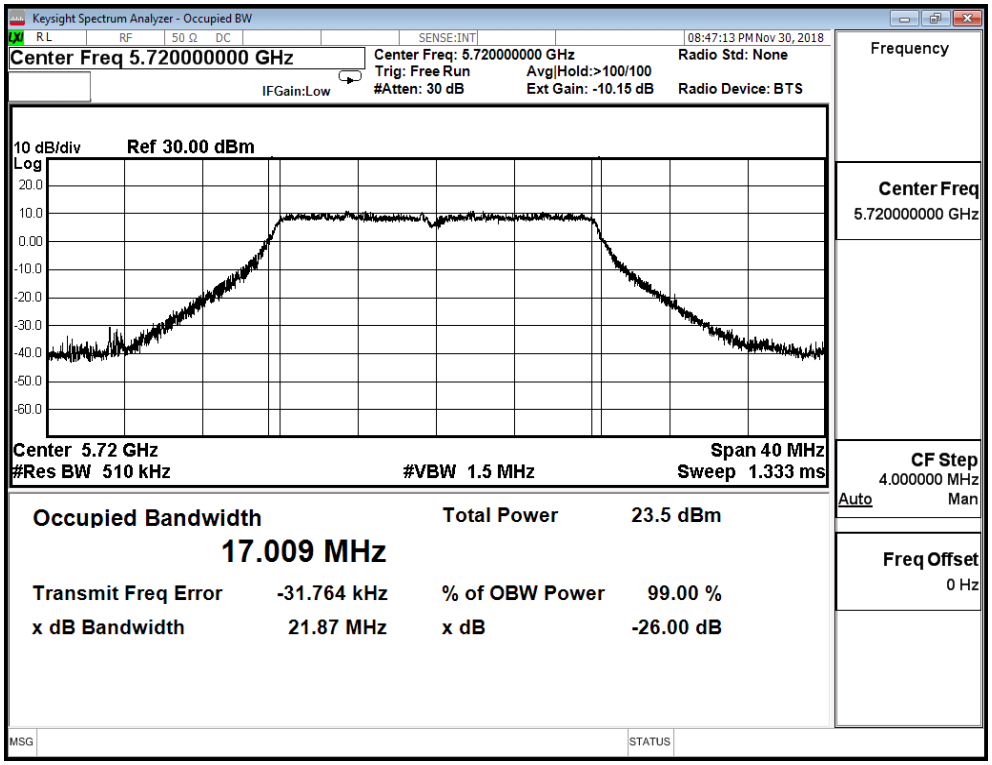
Channel 116



Channel 140



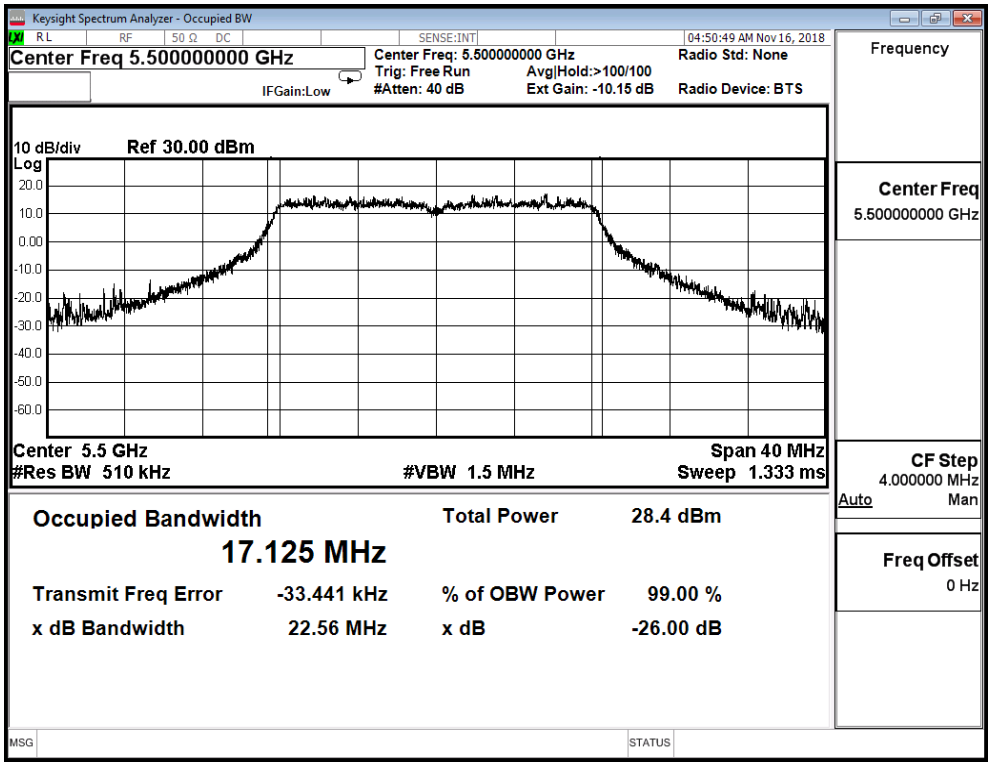
Channel 144


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
08:47:13 PM Nov 30, 2018
Center Freq 5.720000000 GHz
Center Freq: 5.720000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -10.15 dB
Radio Std: None
Radio Device: BTS
IFGain:Low
Frequency
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
5.720000000 GHz
Center 5.72 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
17.009 MHz
Total Power 23.5 dBm
Transmit Freq Error -31.764 kHz
% of OBW Power 99.00 %
x dB Bandwidth 21.87 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

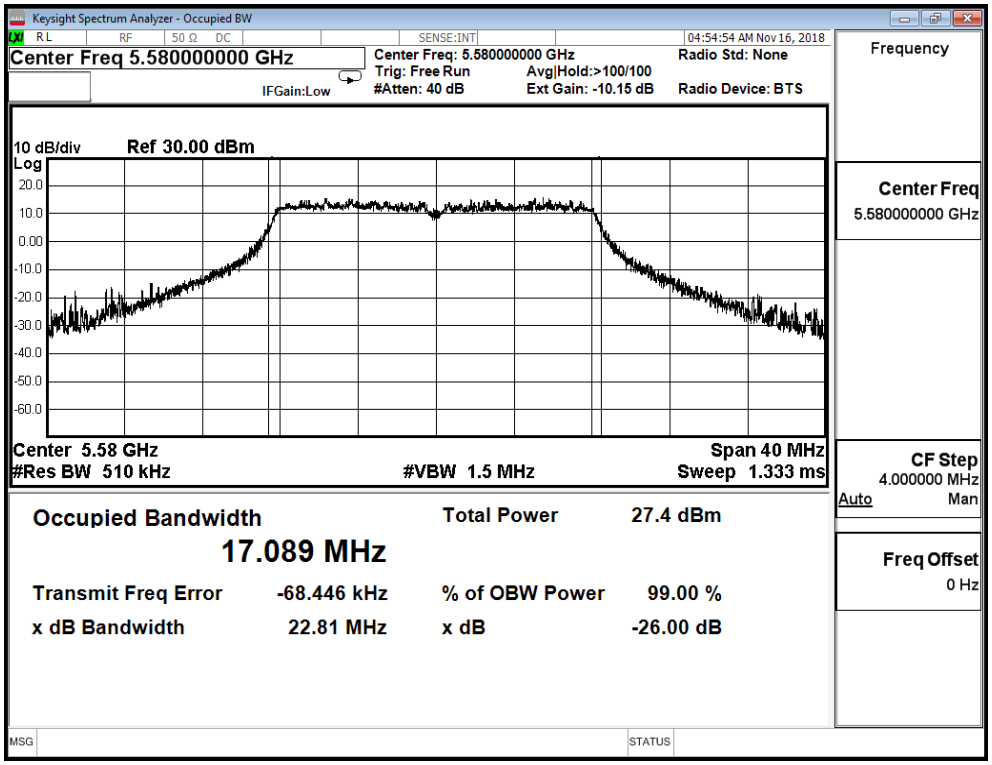
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11a (ANT 8)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
100	5500	17.125	22.560	--
116	5580	17.089	22.810	--
140	5700	17.124	22.510	--
144(Band3)	5720	13.425	15.525	--
144(Band4)	5720	3.425	--	--

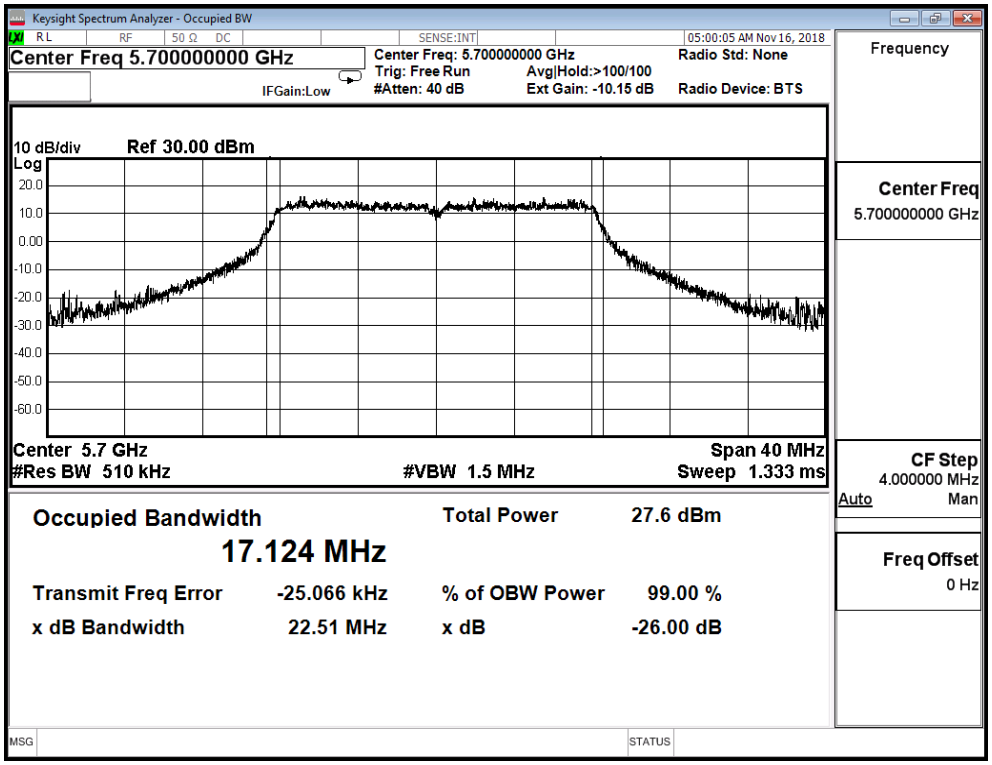
Channel 100



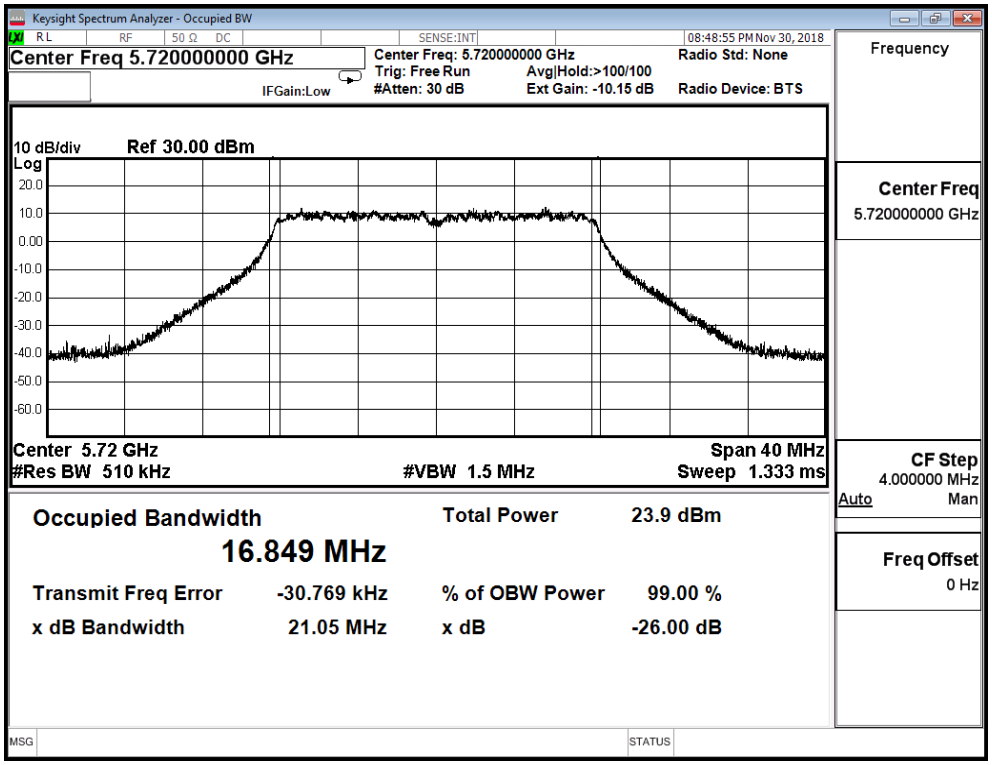
Channel 116



Channel 140



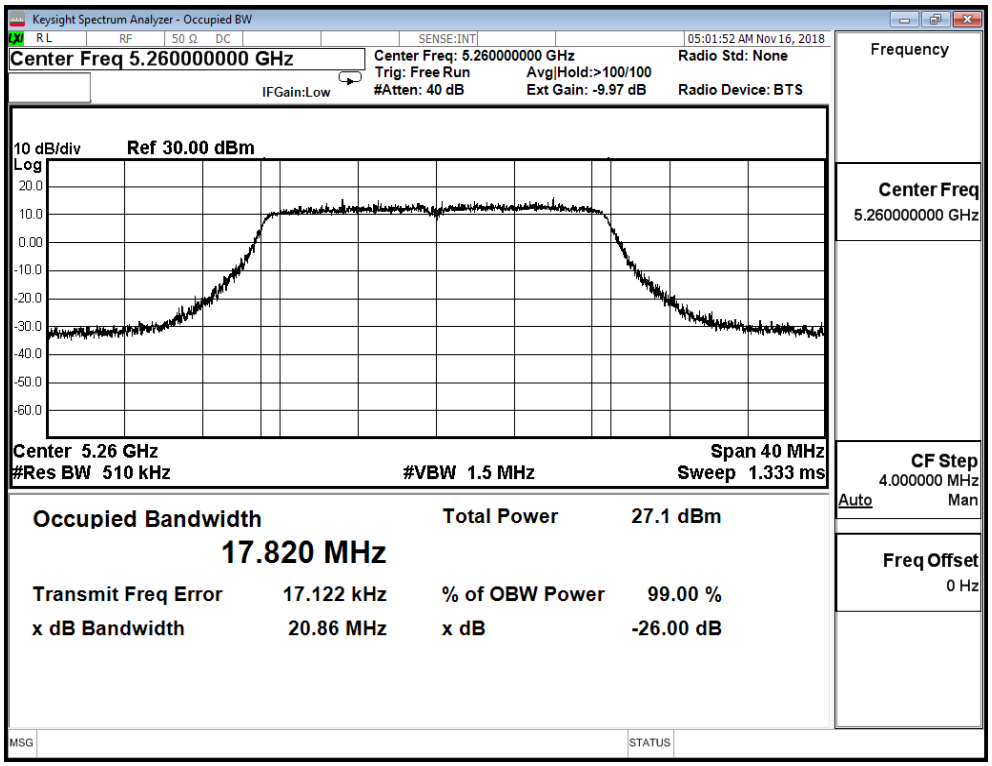
Channel 144


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
08:48:55 PM Nov 30, 2018
Center Freq 5.720000000 GHz
IFGain:Low
Center Freq: 5.720000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -10.15 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
5.720000000 GHz
Center 5.72 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
16.849 MHz
Total Power 23.9 dBm
Freq Offset
0 Hz
Transmit Freq Error -30.769 kHz
% of OBW Power 99.00 %
x dB Bandwidth 21.05 MHz
x dB -26.00 dB
MSG
STATUS

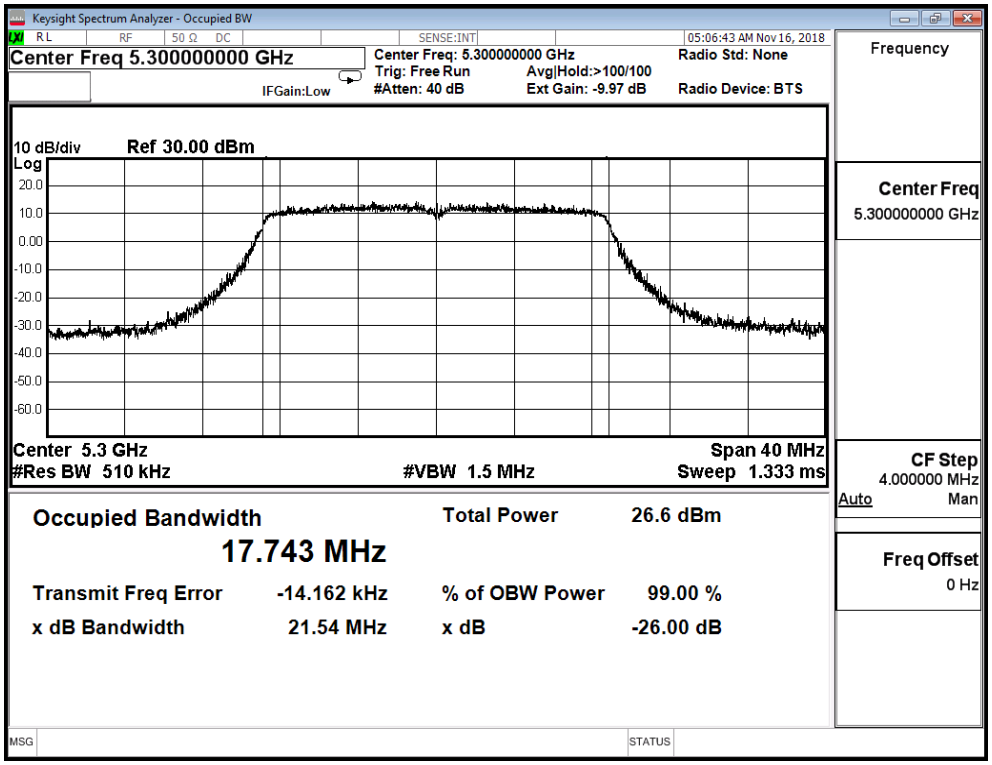
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11ac_20M(ANT 0)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
52	5260	17.820	20.860	--
60	5300	17.743	21.540	--
64	5320	17.772	21.020	--

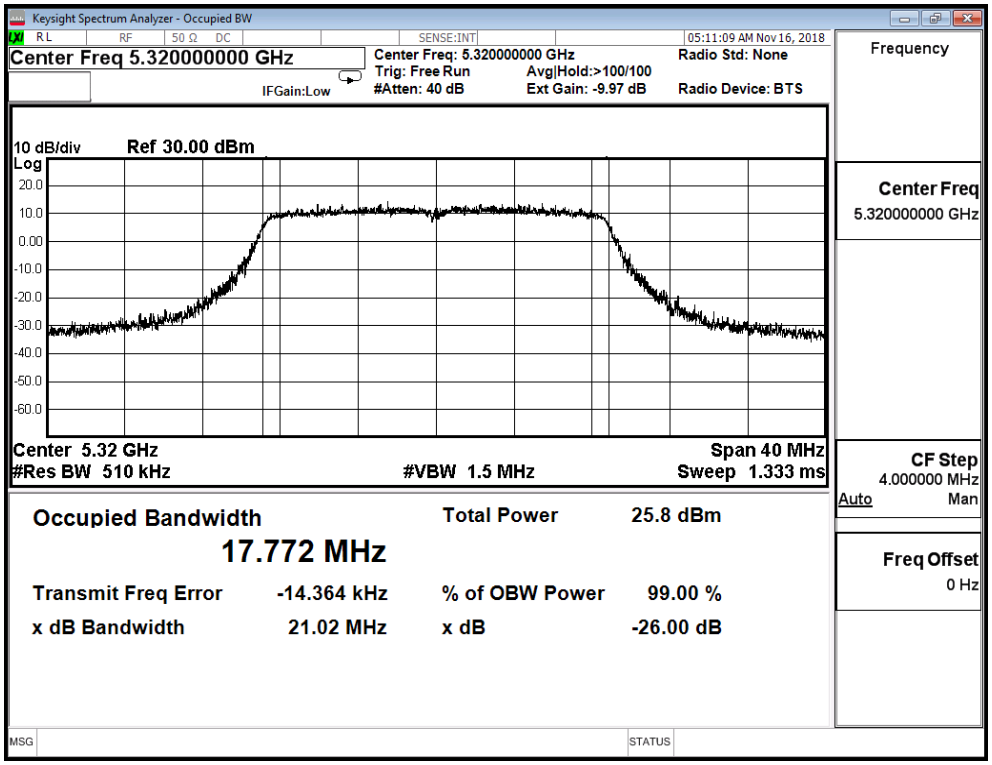
Channel 52



Channel 60



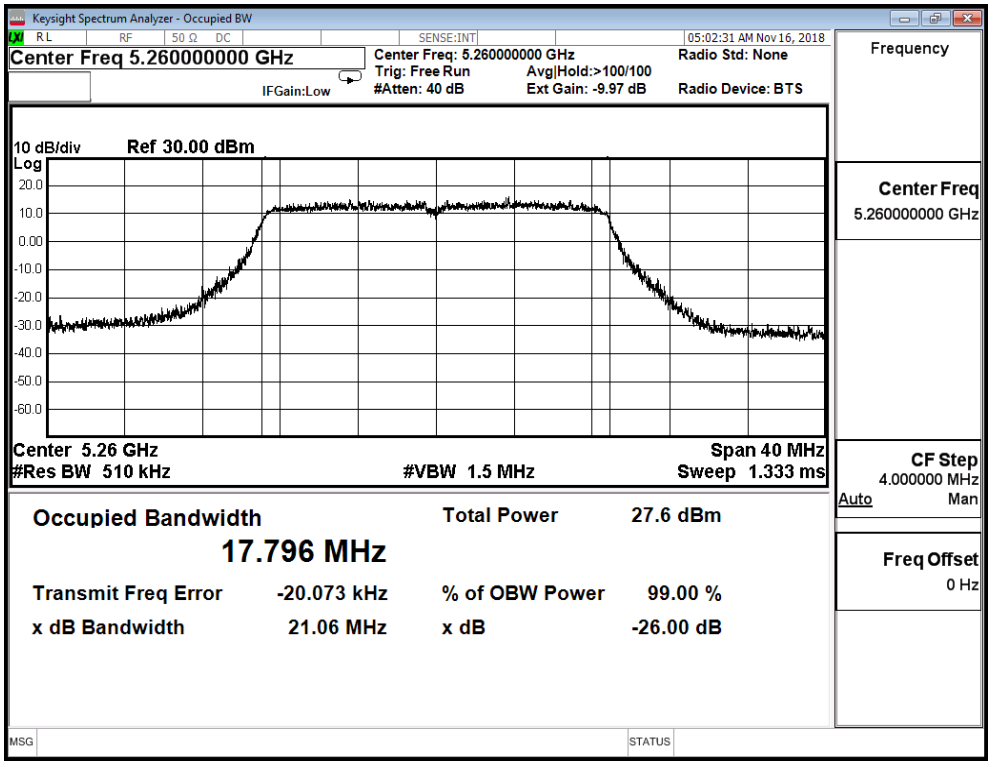
Channel 64



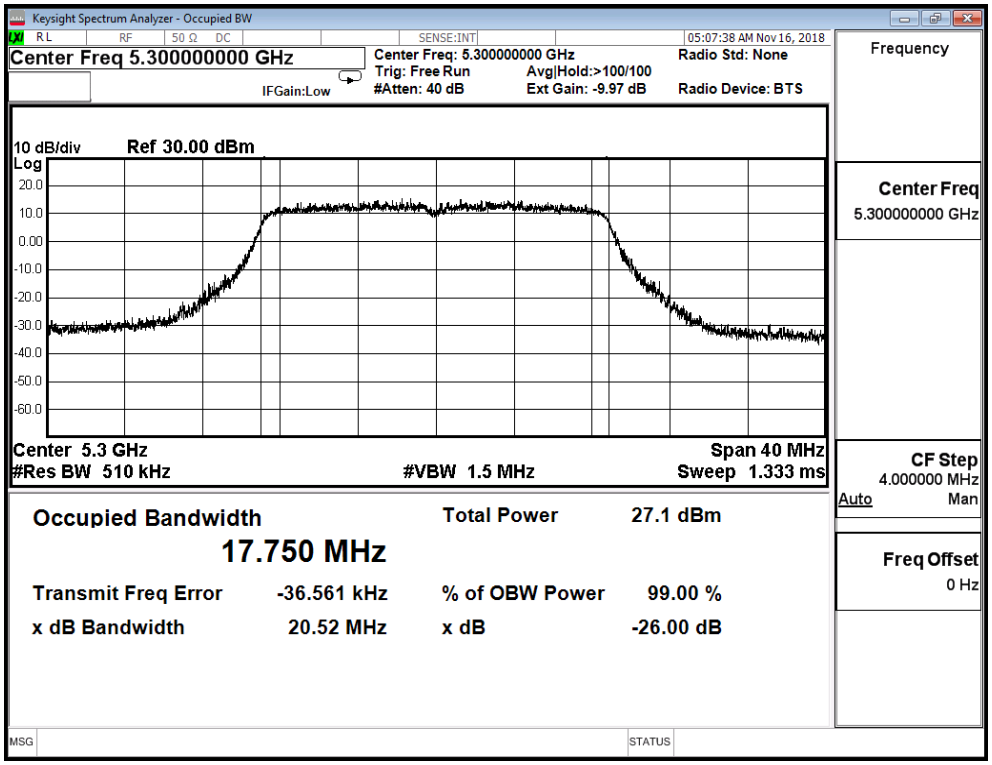
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11ac_20M(ANT 1)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
52	5260	17.796	21.060	--
60	5300	17.750	20.520	--
64	5320	17.809	21.270	--

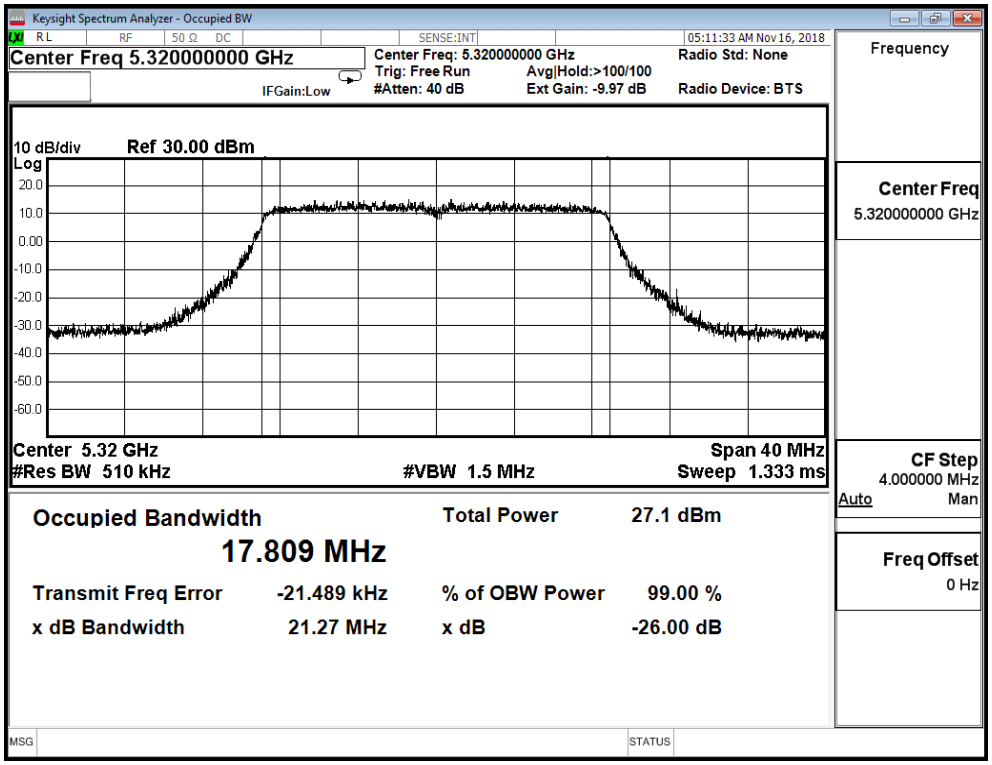
Channel 52



Channel 60



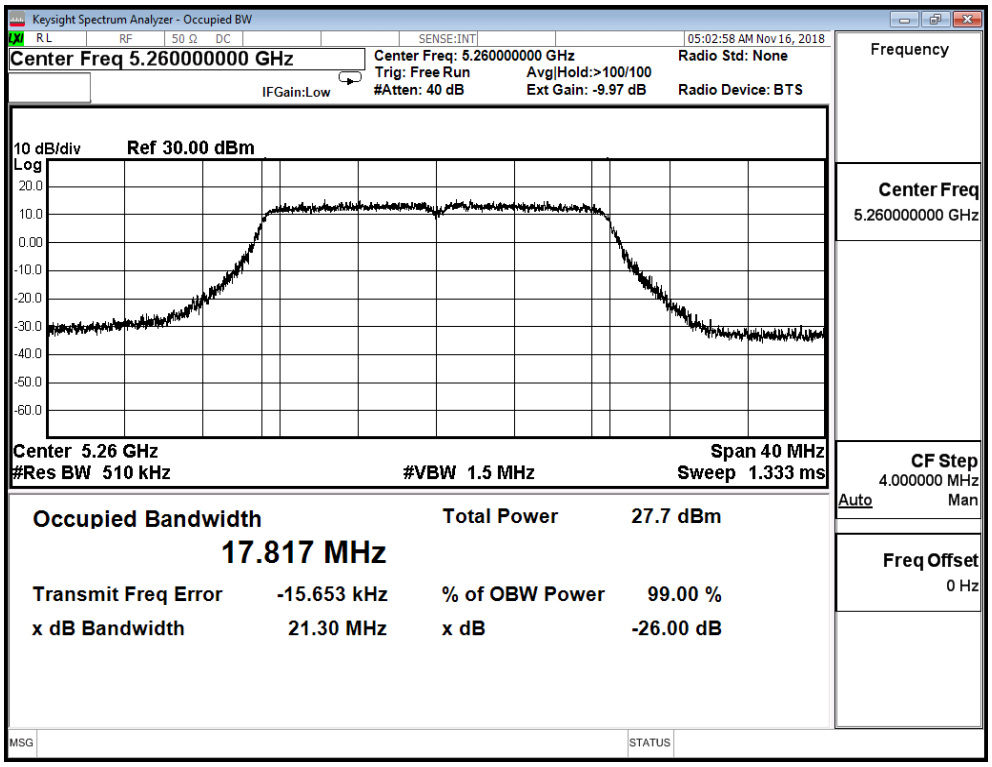
Channel 64



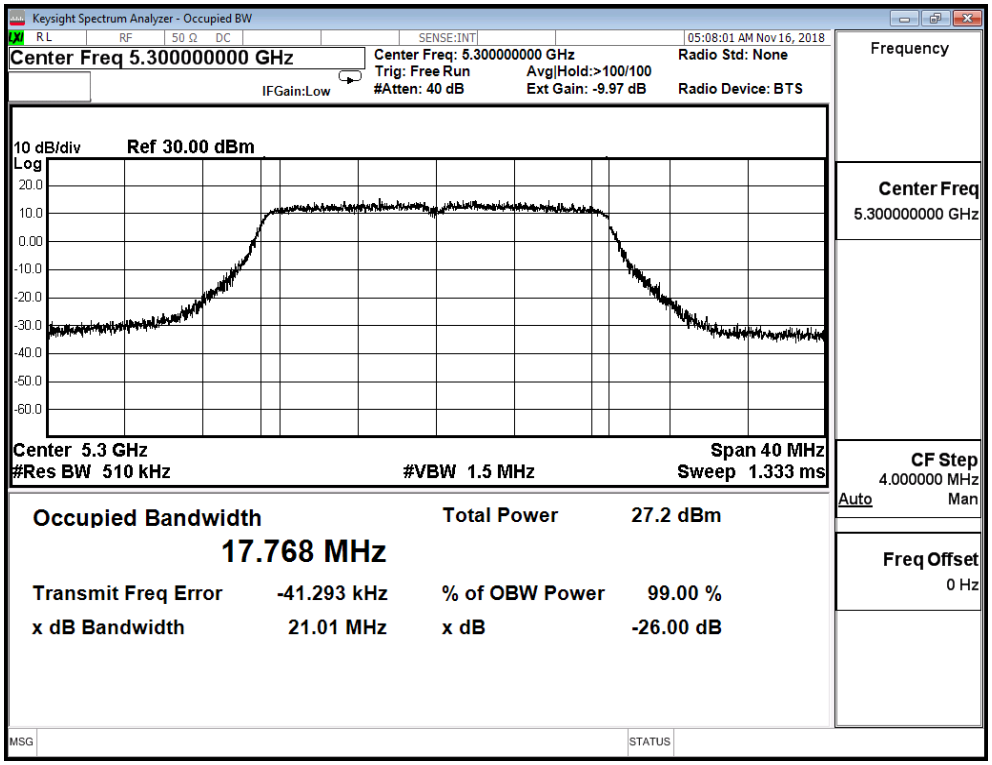
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11ac_20M(ANT 2)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
52	5260	17.817	21.300	--
60	5300	17.768	21.010	--
64	5320	17.756	20.960	--

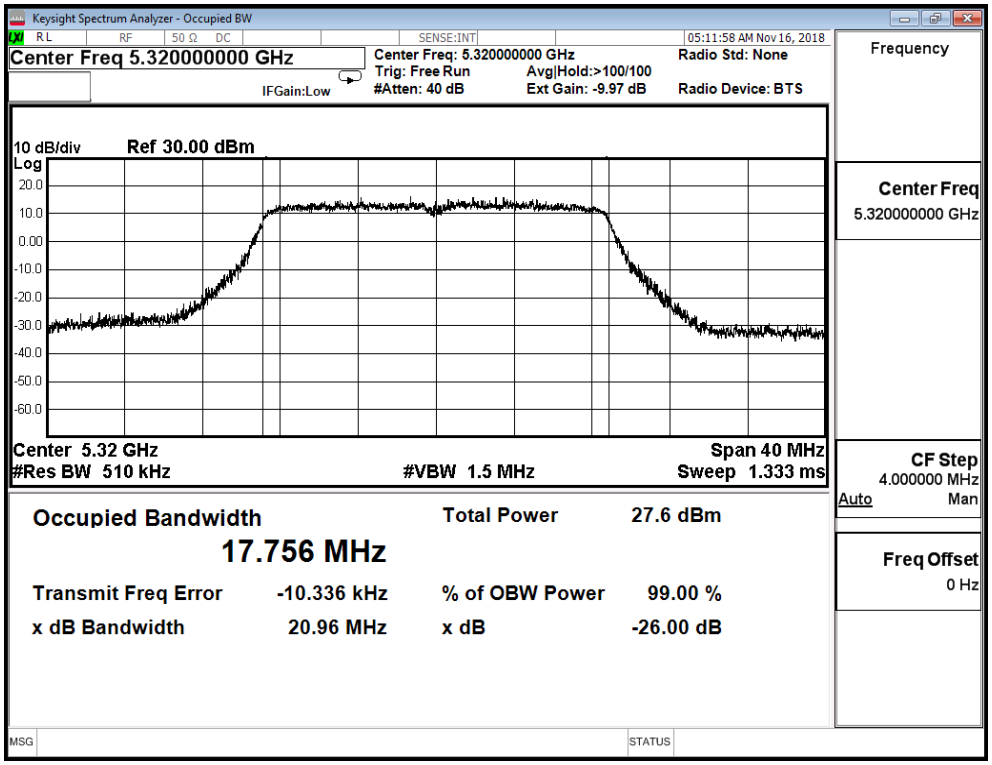
Channel 52



Channel 60



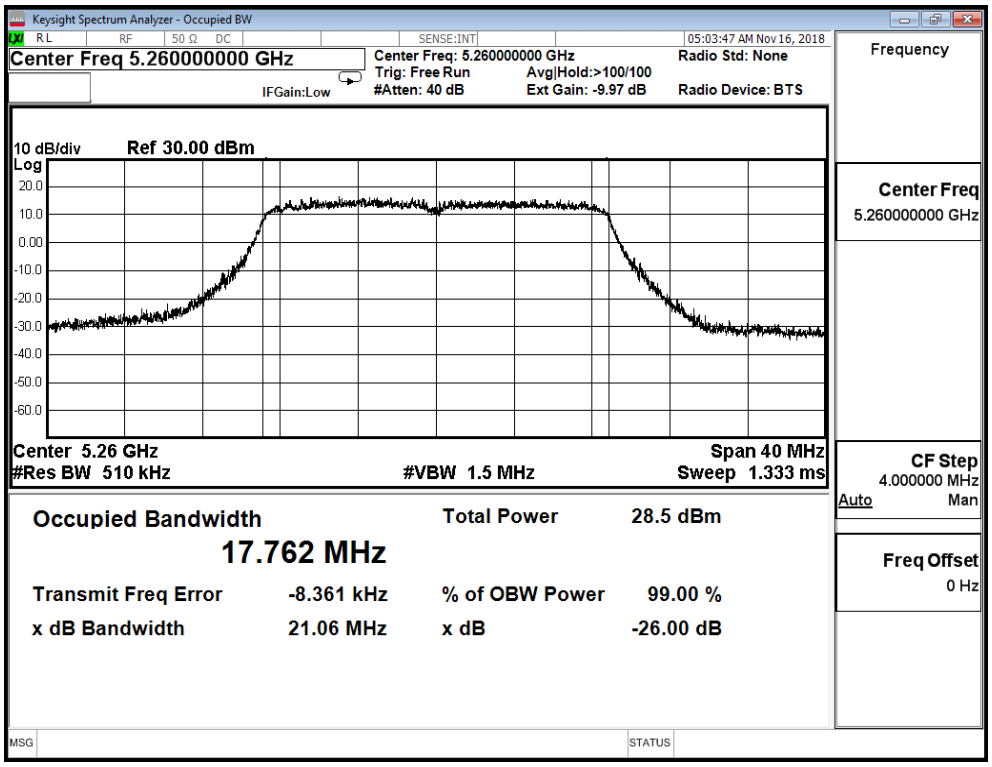
Channel 64



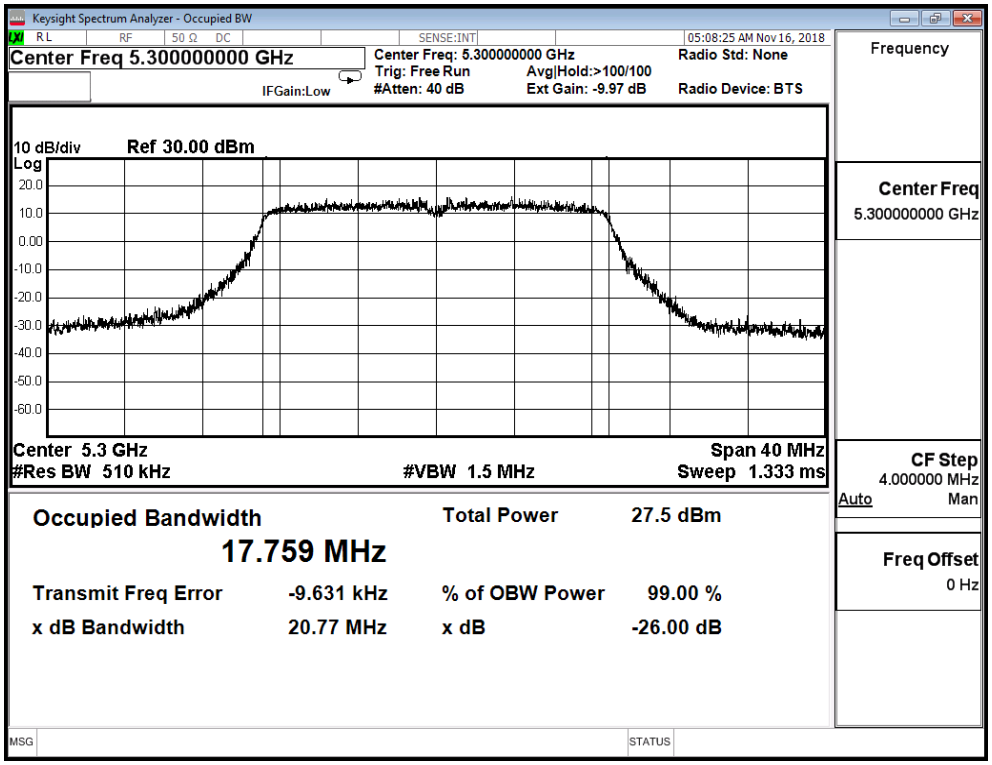
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11ac_20M(ANT 3)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
52	5260	17.762	21.060	--
60	5300	17.759	20.770	--
64	5320	17.772	21.020	--

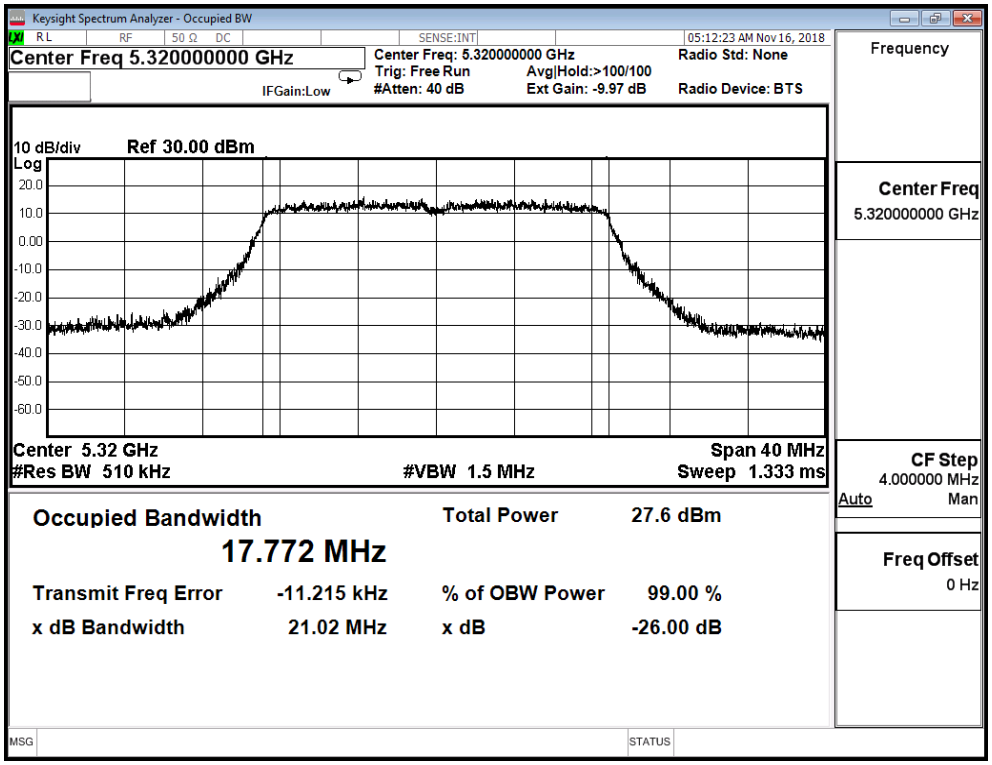
Channel 52



Channel 60



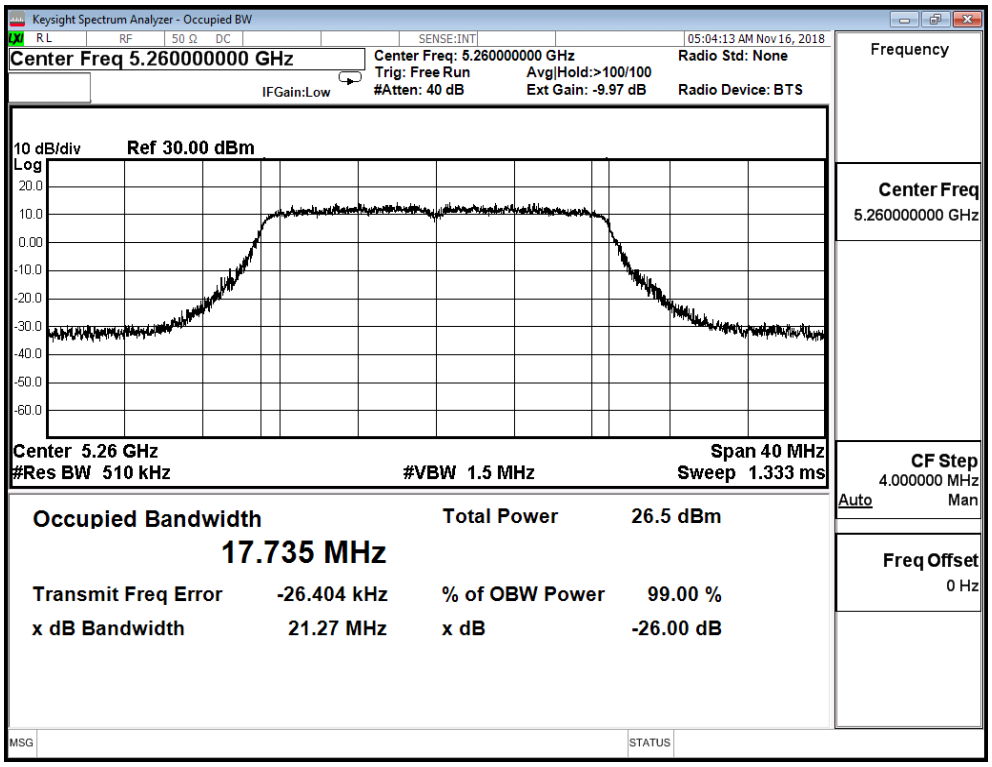
Channel 64



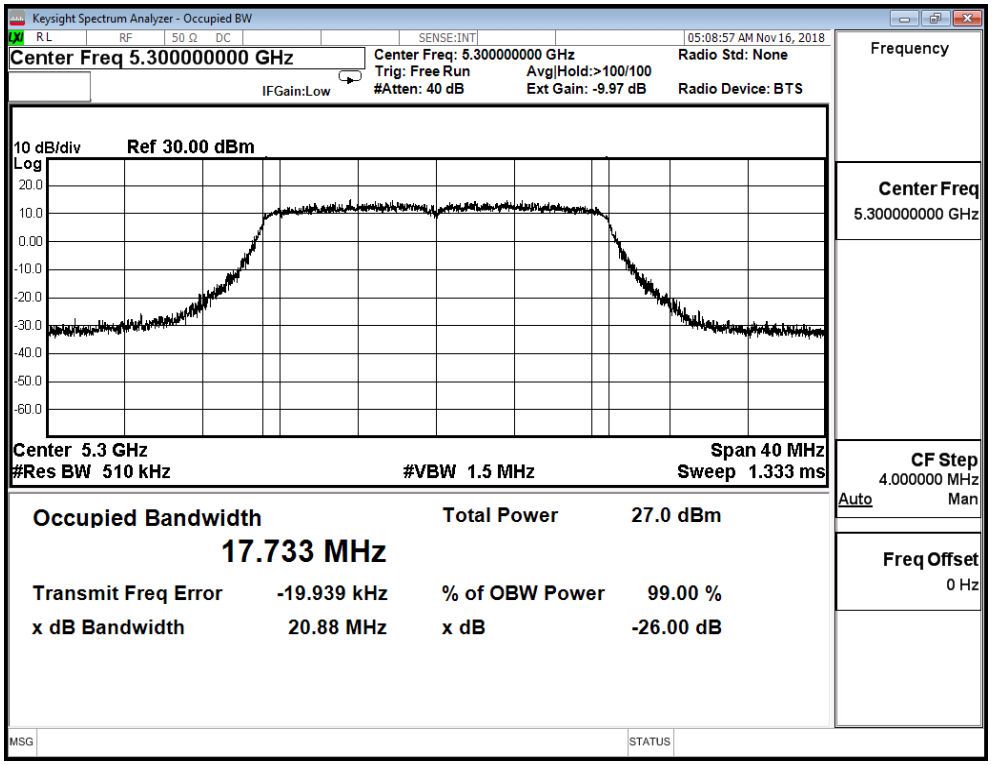
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11ac_20M(ANT 4)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
52	5260	17.735	21.270	--
60	5300	17.733	20.880	--
64	5320	17.783	21.290	--

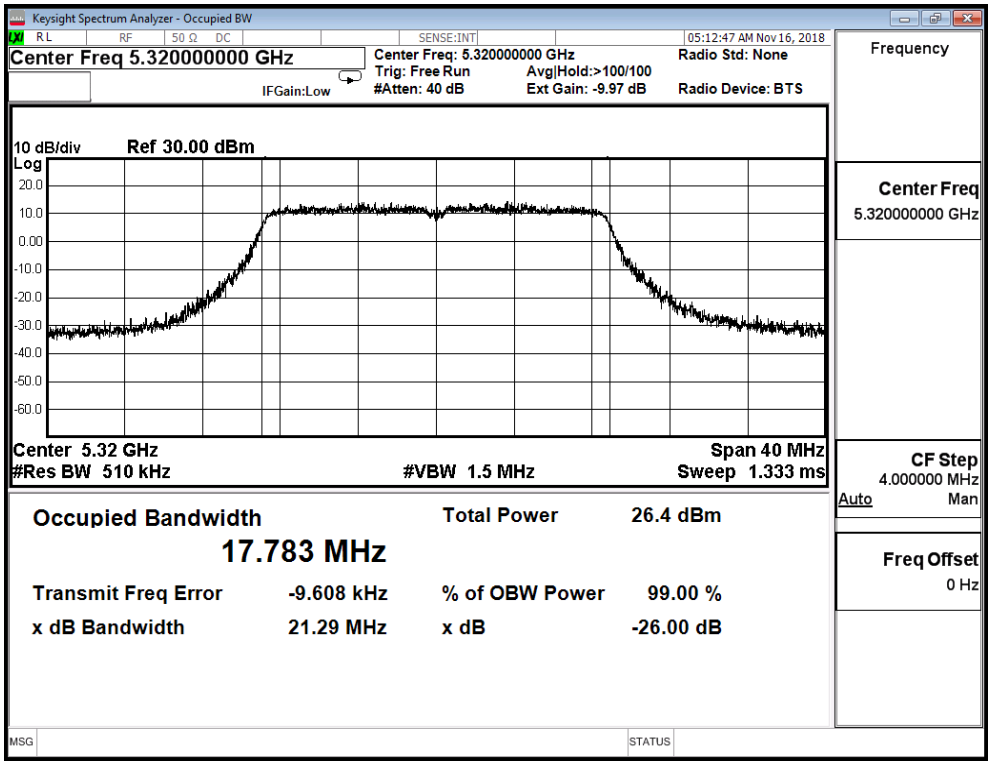
Channel 52



Channel 60



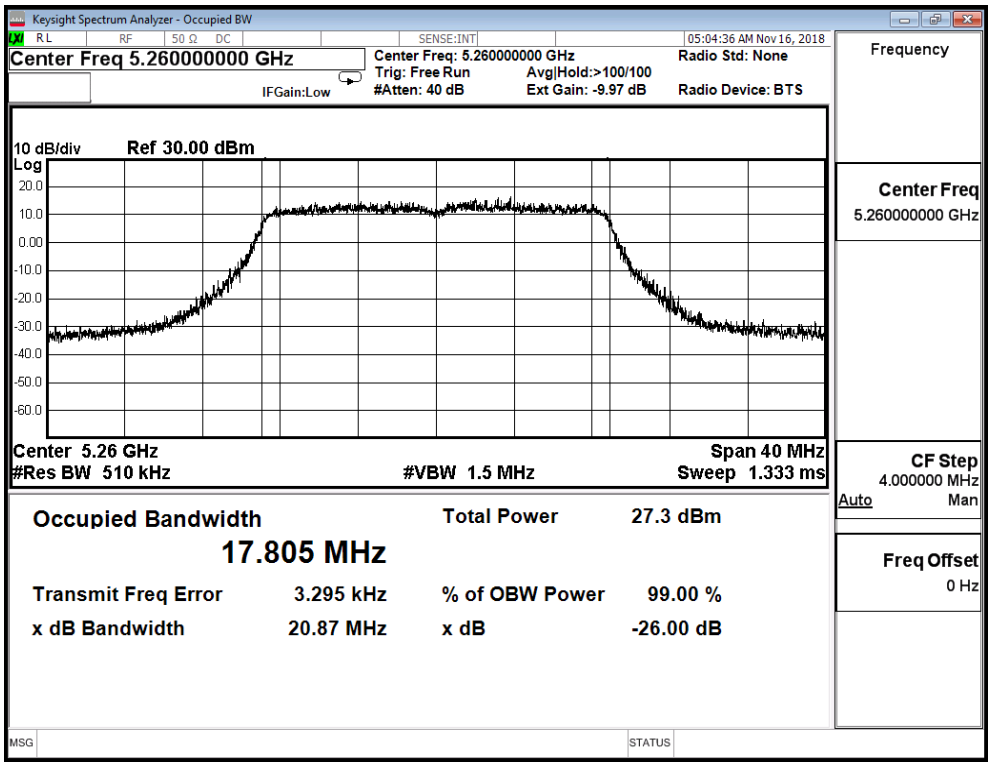
Channel 64



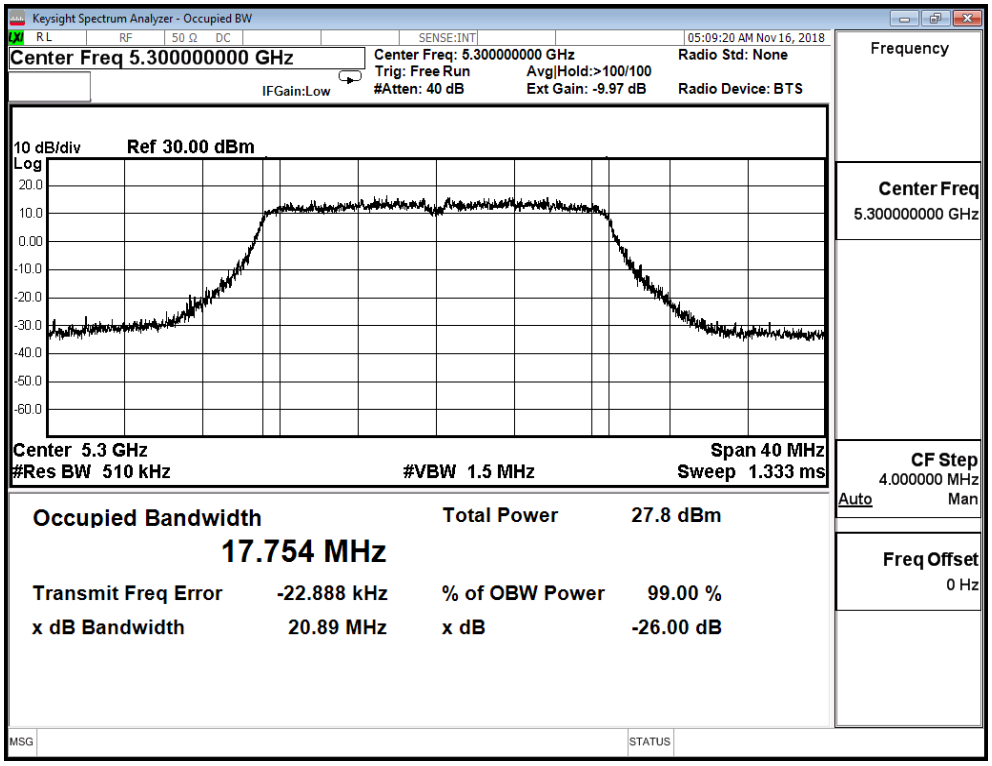
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11ac_20M(ANT 5)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
52	5260	17.805	20.870	--
60	5300	17.754	20.890	--
64	5320	17.742	20.950	--

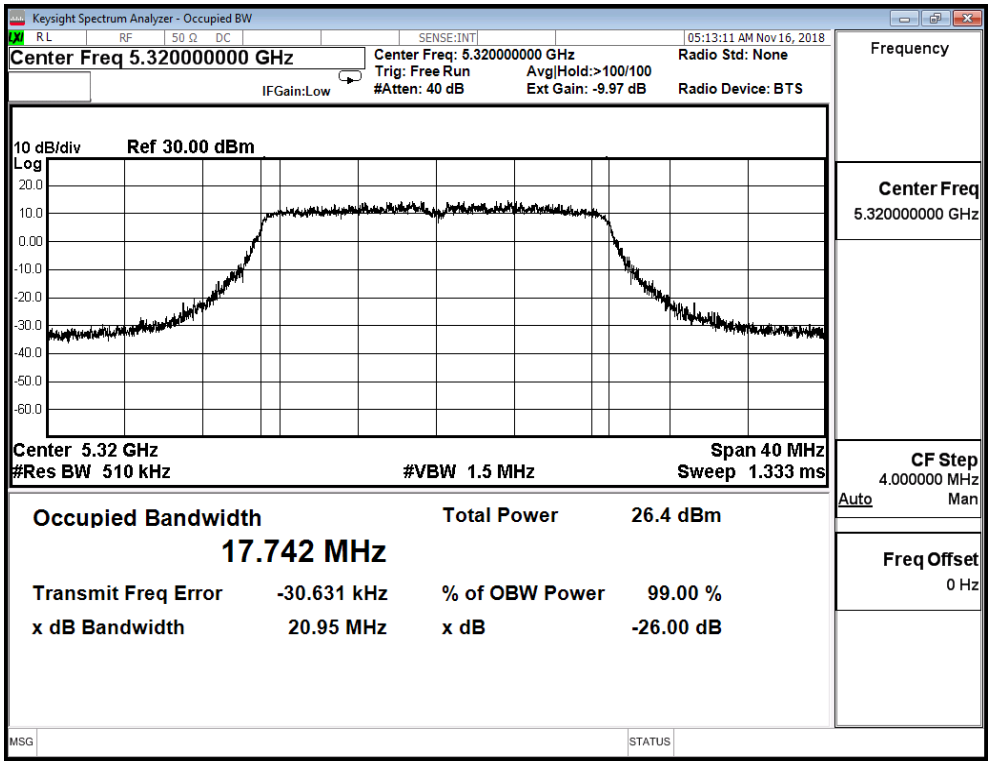
Channel 52



Channel 60



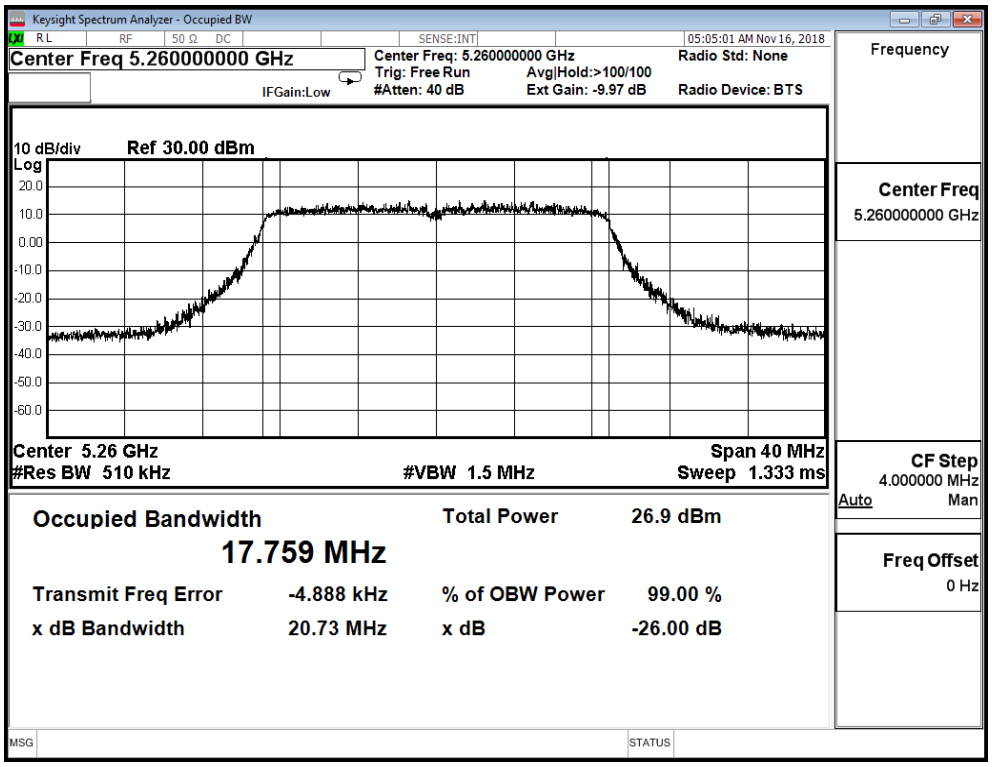
Channel 64



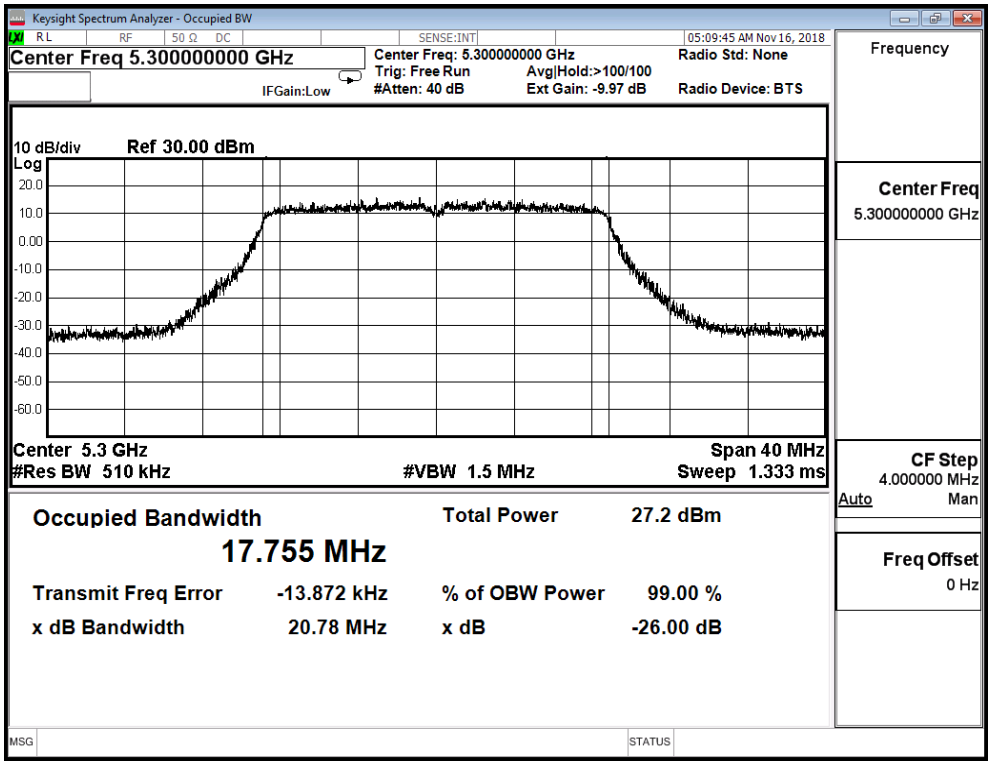
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11ac_20M(ANT 6)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
52	5260	17.759	20.730	--
60	5300	17.755	20.780	--
64	5320	17.810	21.040	--

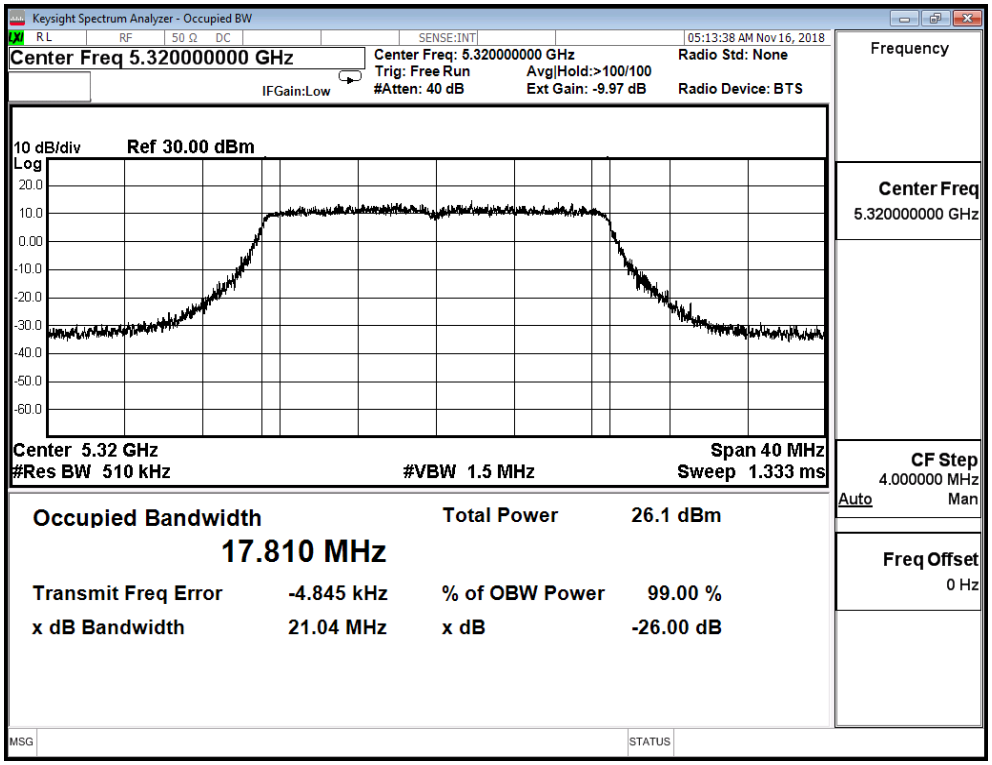
Channel 52



Channel 60



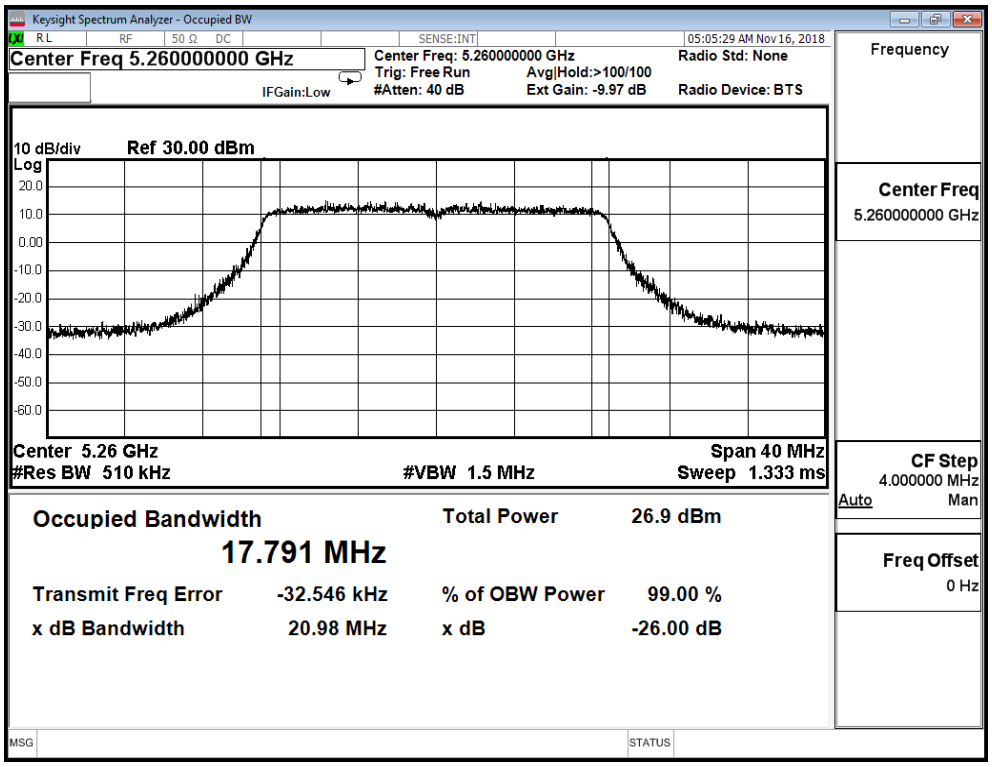
Channel 64



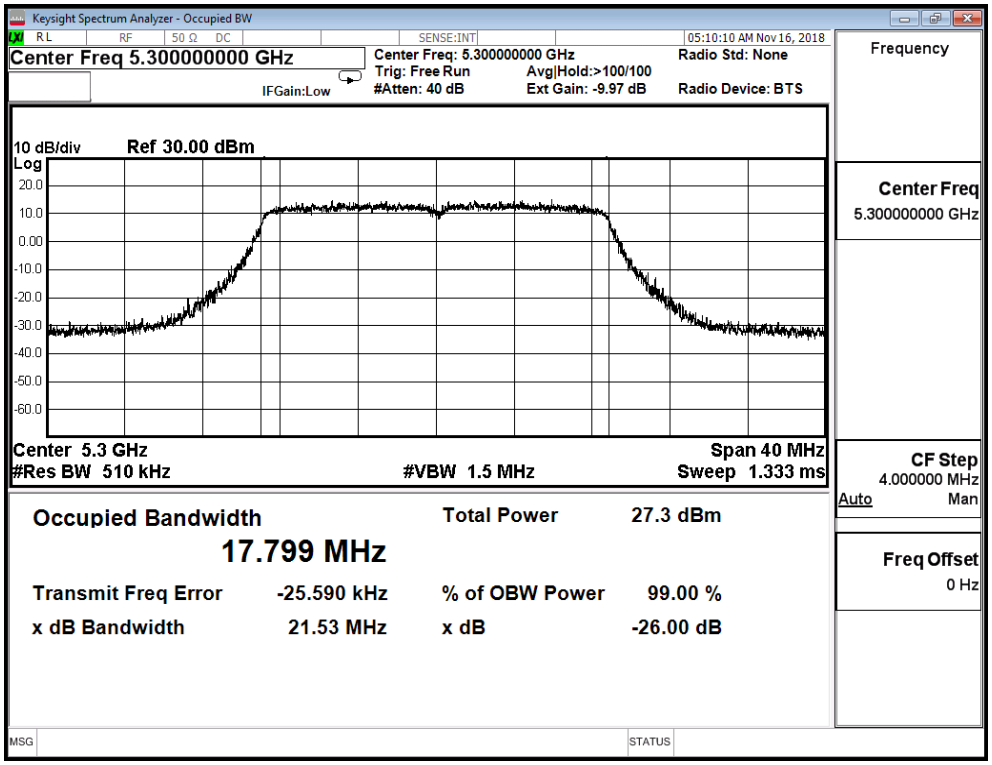
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11ac_20M(ANT 8)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
52	5260	17.791	20.980	--
60	5300	17.799	21.530	--
64	5320	17.753	21.220	--

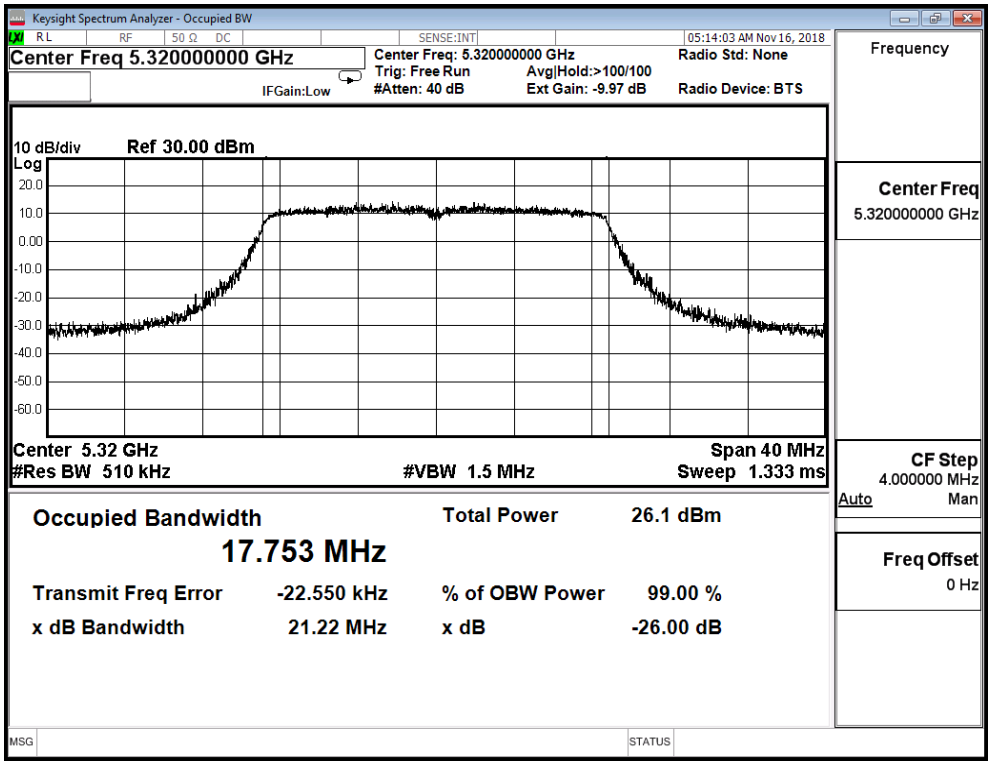
Channel 52



Channel 60



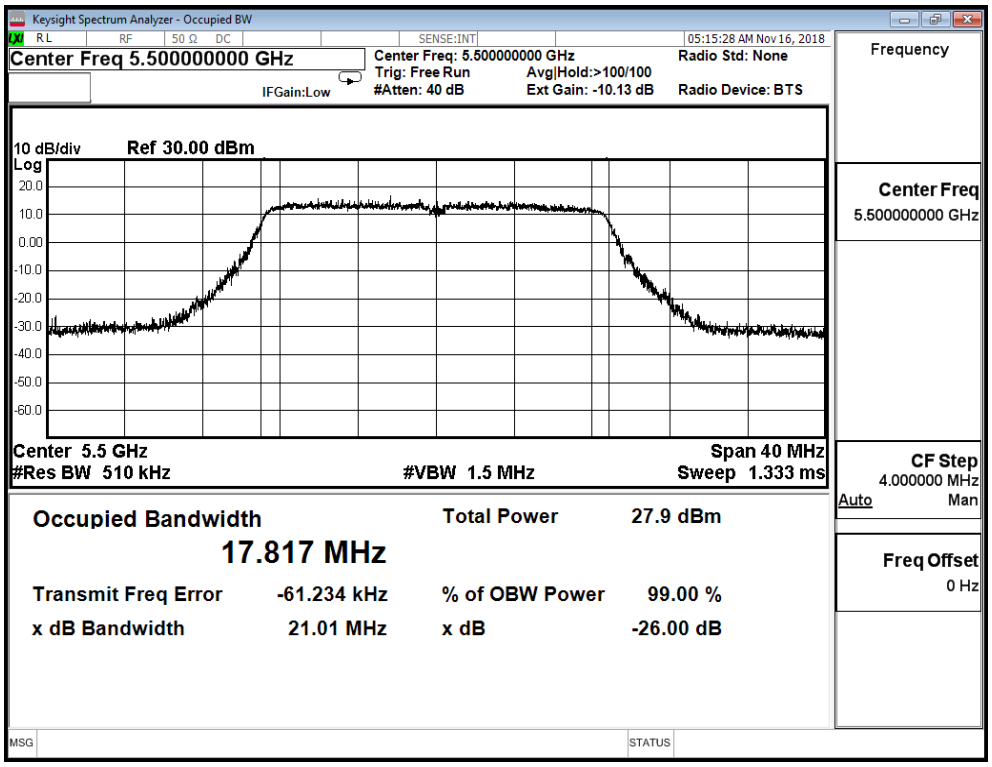
Channel 64



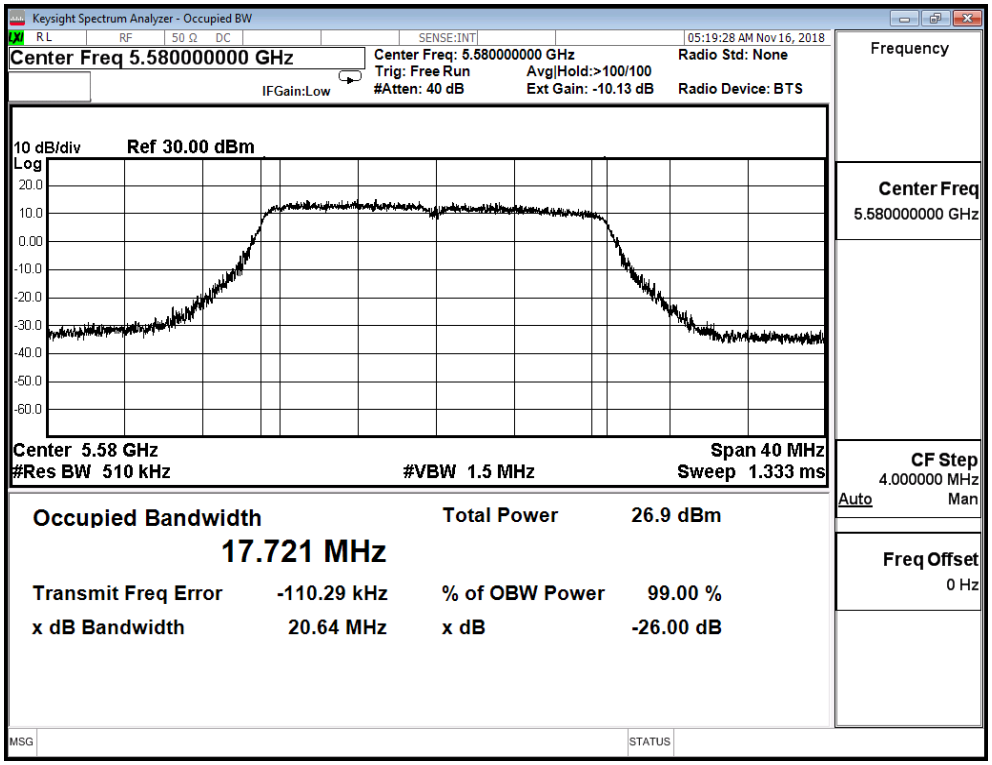
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11ac _20M(ANT 0)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
100	5500	17.817	21.010	--
116	5580	17.721	20.640	--
140	5700	17.706	20.890	--
144(Band3)	5720	13.856	15.340	--
144(Band4)	5720	3.856	--	--

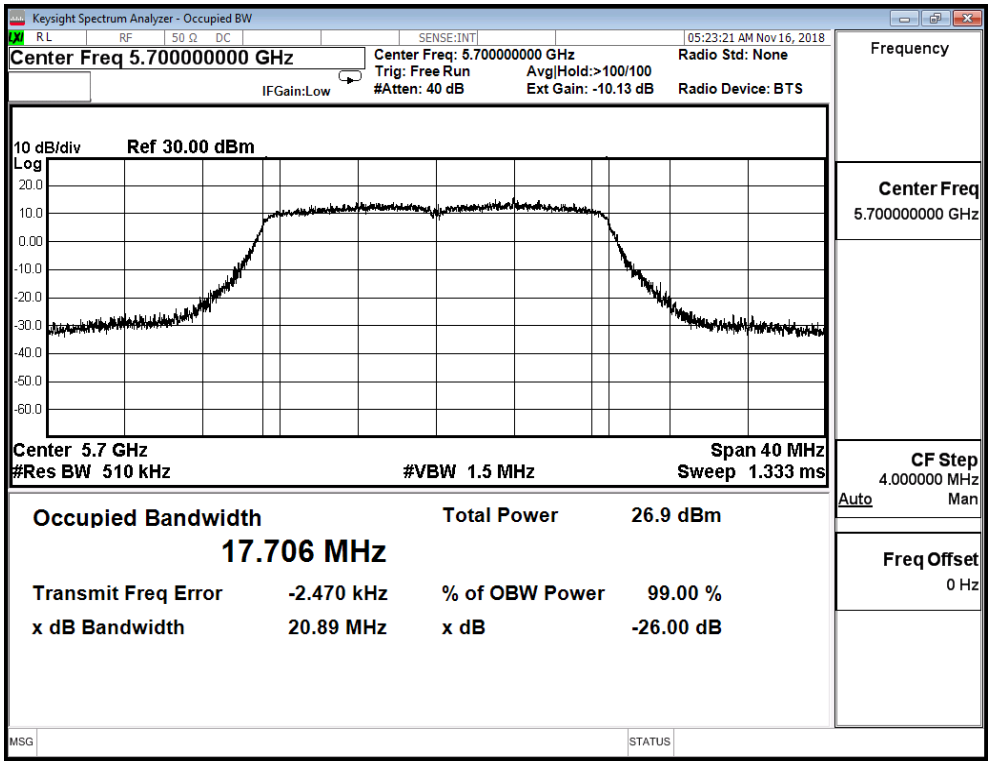
Channel 100



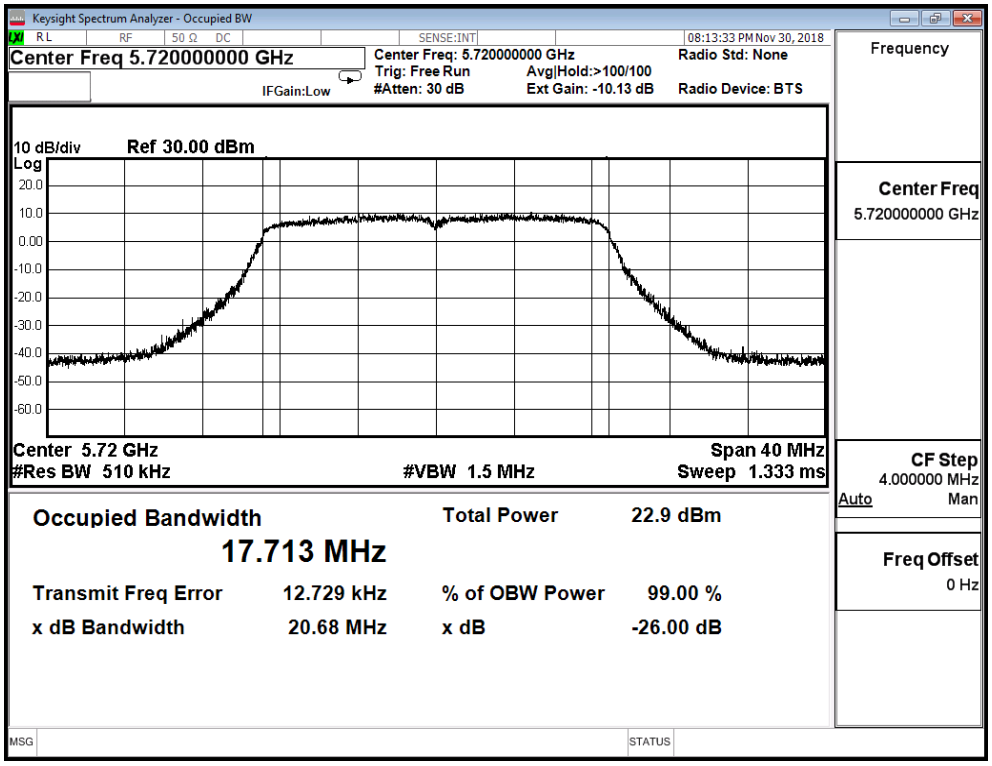
Channel 116



Channel 140



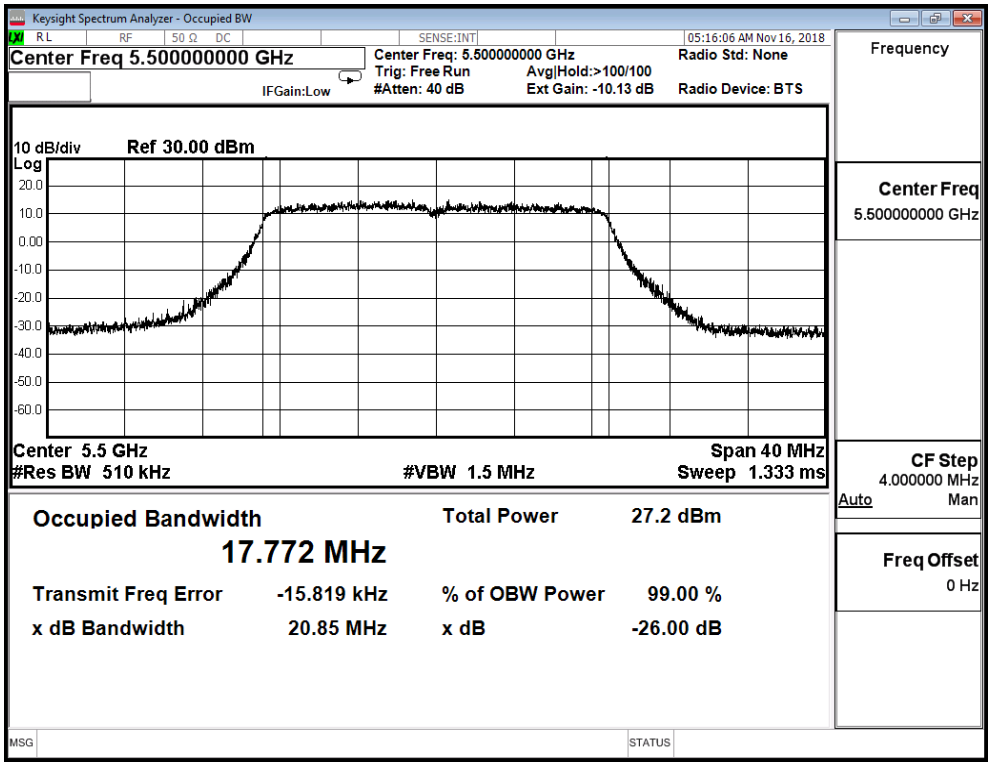
Channel 144


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
08:13:33 PM Nov 30, 2018
Center Freq 5.720000000 GHz
IFGain:Low
Center Freq: 5.720000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -10.13 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
5.720000000 GHz
Center 5.72 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
17.713 MHz
Total Power 22.9 dBm
Transmit Freq Error 12.729 kHz
% of OBW Power 99.00 %
x dB Bandwidth 20.68 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

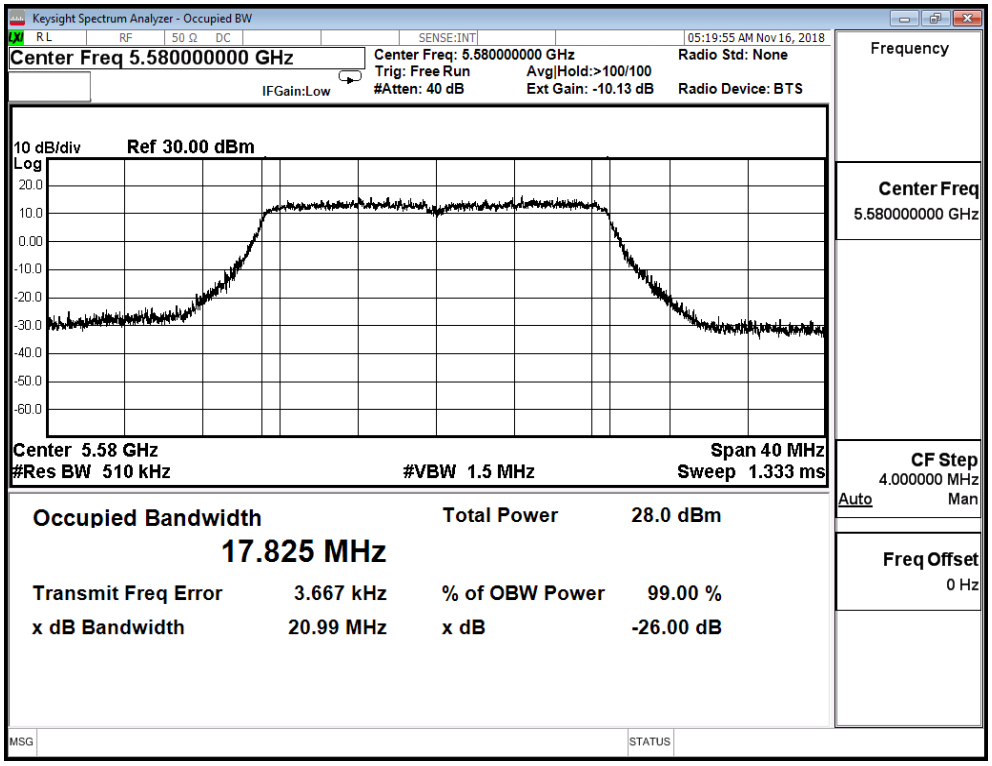
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11ac _20M(ANT 1)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
100	5500	17.772	20.850	--
116	5580	17.825	20.990	--
140	5700	17.702	20.610	--
144(Band3)	5720	13.842	15.375	--
144(Band4)	5720	3.842	--	--

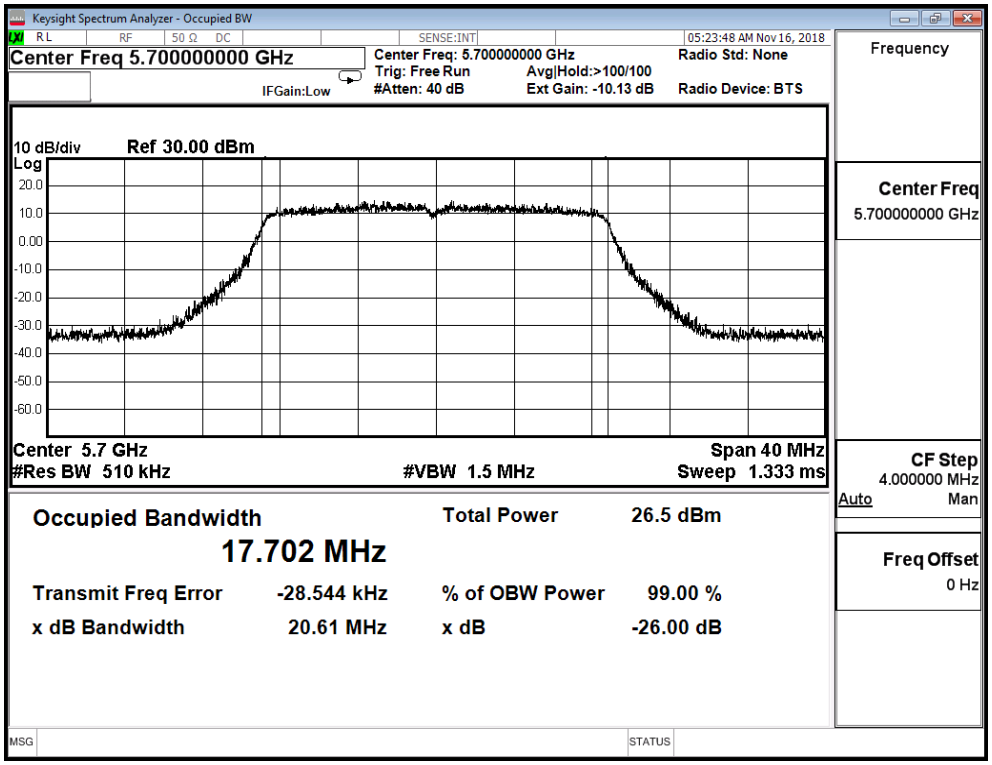
Channel 100



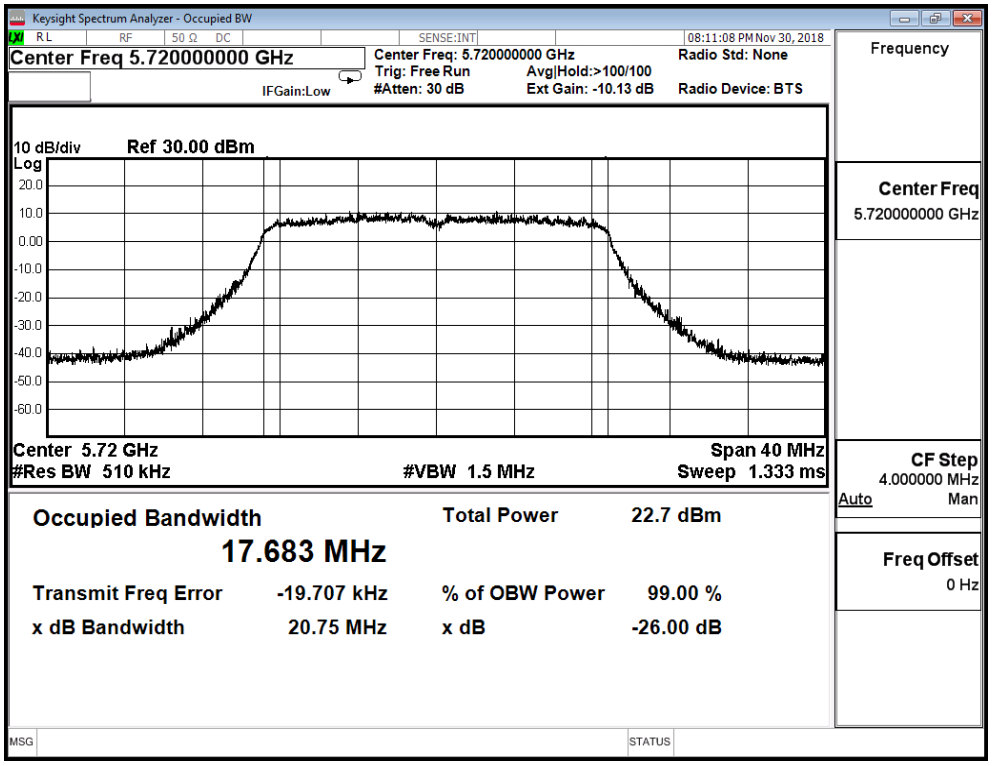
Channel 116



Channel 140



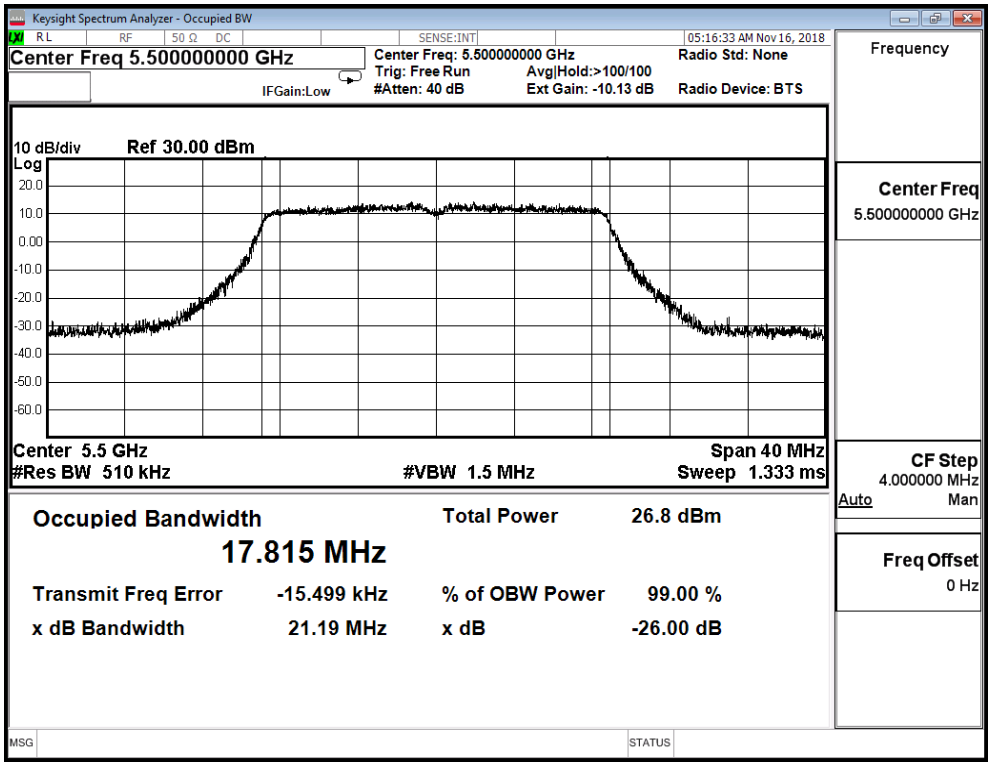
Channel 144


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
08:11:08 PM Nov 30, 2018
Center Freq 5.720000000 GHz
IFGain:Low
Center Freq: 5.720000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -10.13 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
5.720000000 GHz
Center 5.72 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
17.683 MHz
Total Power 22.7 dBm
Transmit Freq Error -19.707 kHz
% of OBW Power 99.00 %
x dB Bandwidth 20.75 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

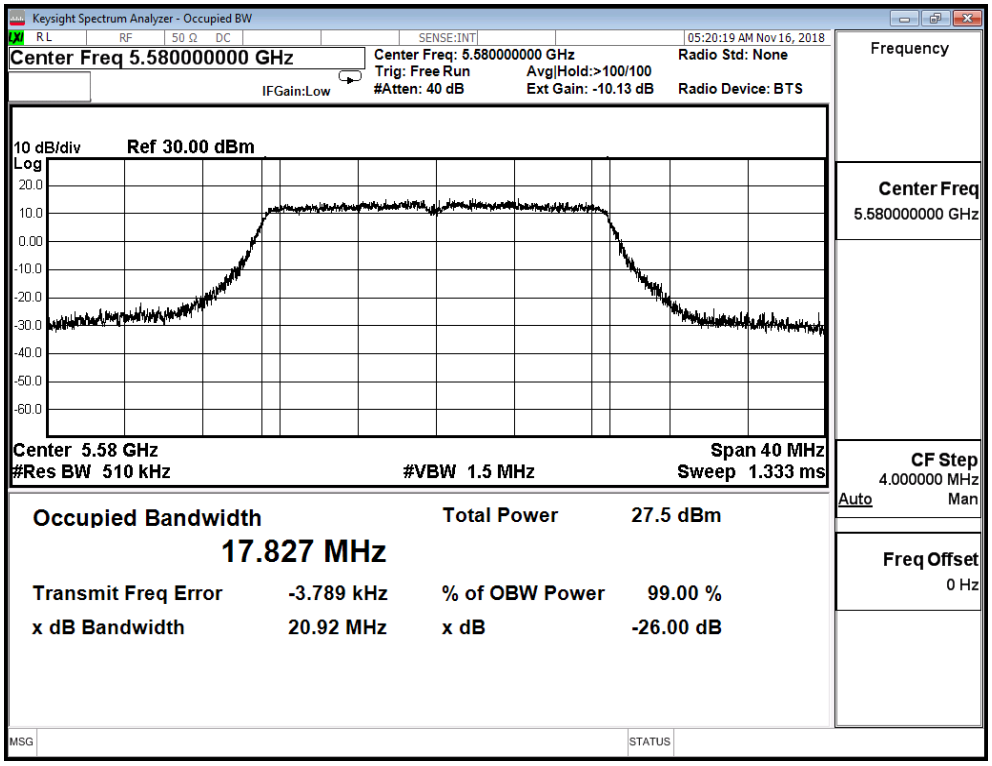
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11ac _20M(ANT 2)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
100	5500	17.815	21.190	--
116	5580	17.827	20.920	--
140	5700	17.740	20.890	--
144(Band3)	5720	13.884	15.405	--
144(Band4)	5720	3.884	--	--

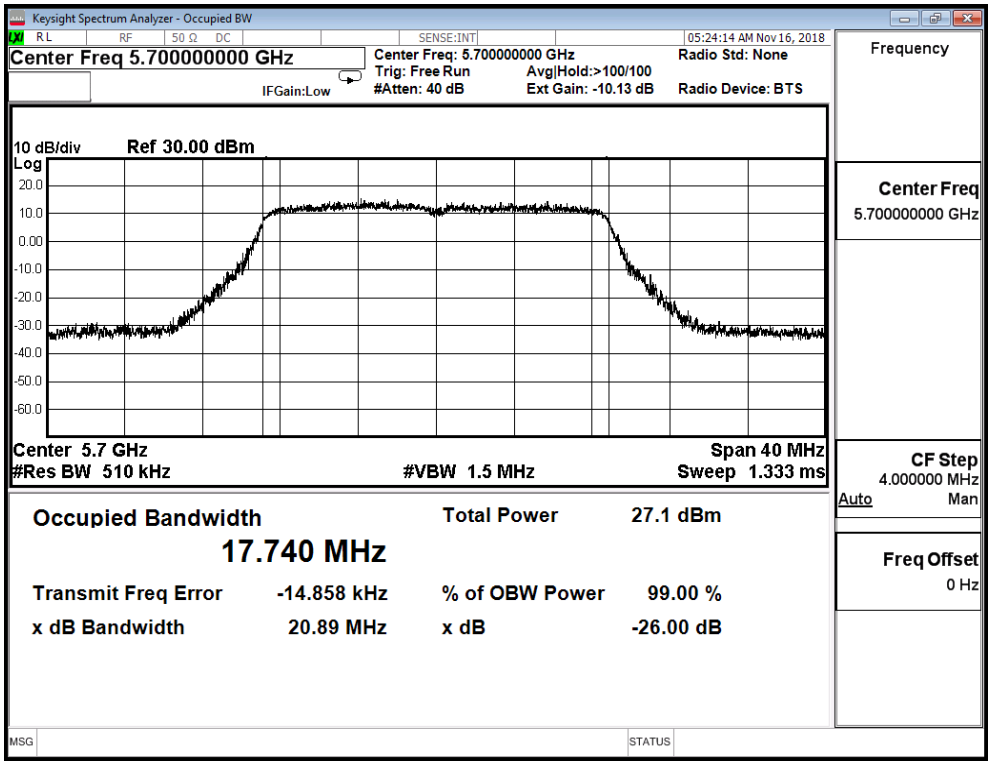
Channel 100



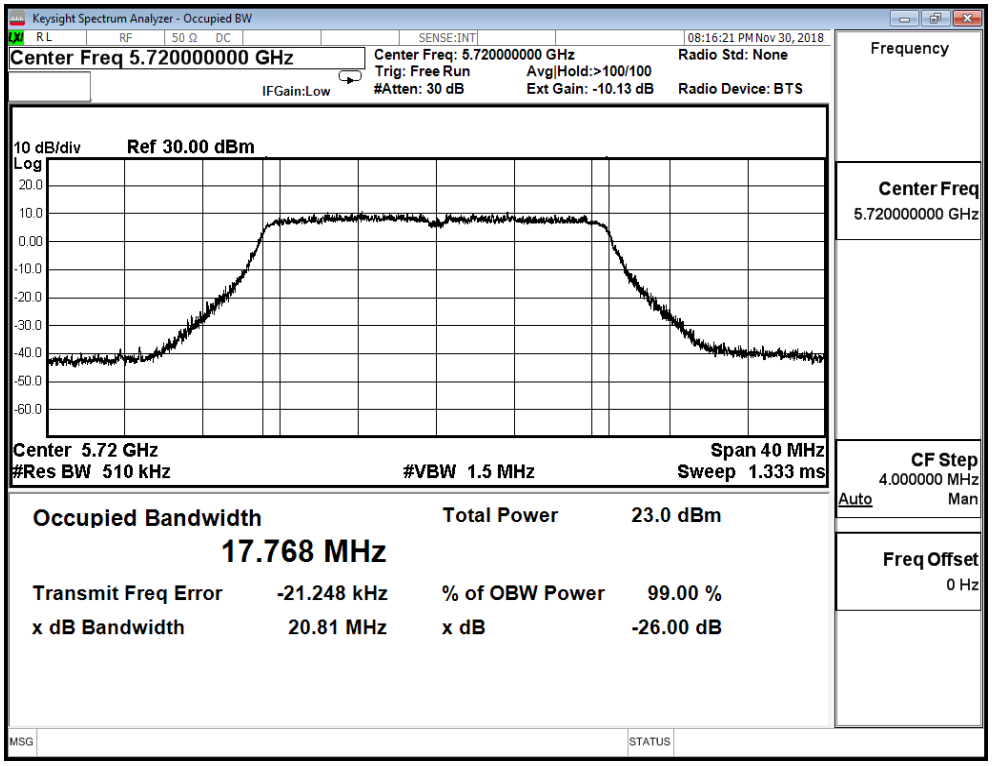
Channel 116



Channel 140



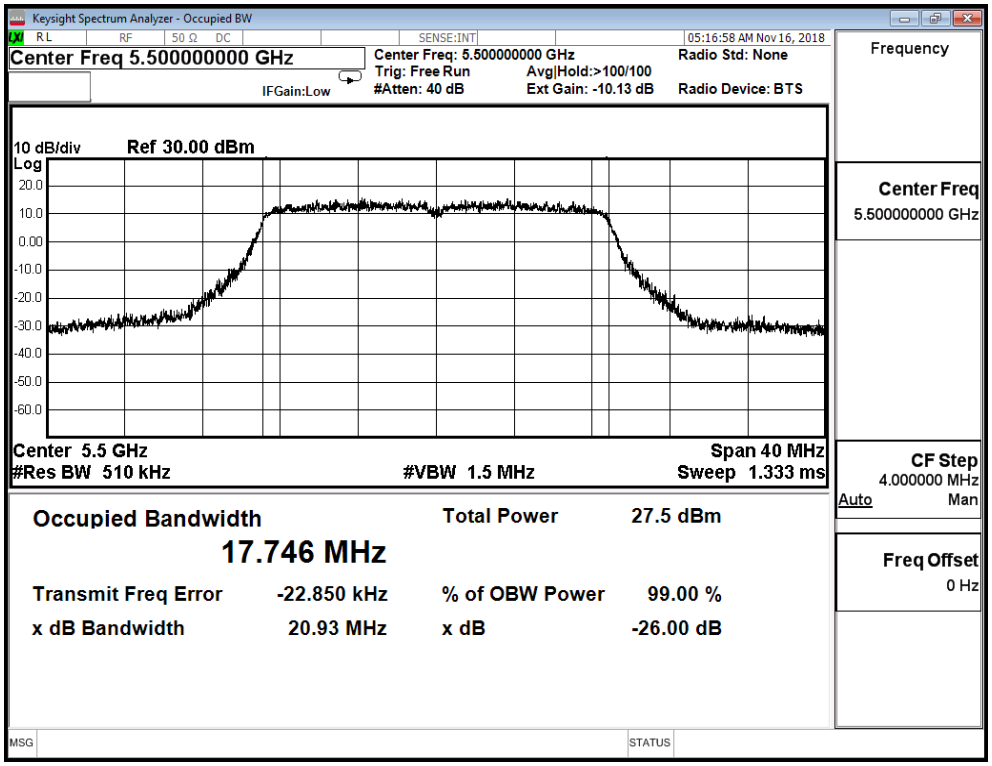
Channel 144


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
08:16:21 PM Nov 30, 2018
Center Freq 5.720000000 GHz
IFGain:Low
Center Freq: 5.720000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -10.13 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
5.720000000 GHz
Center 5.72 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
17.768 MHz
Total Power 23.0 dBm
Transmit Freq Error -21.248 kHz
% of OBW Power 99.00 %
x dB Bandwidth 20.81 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

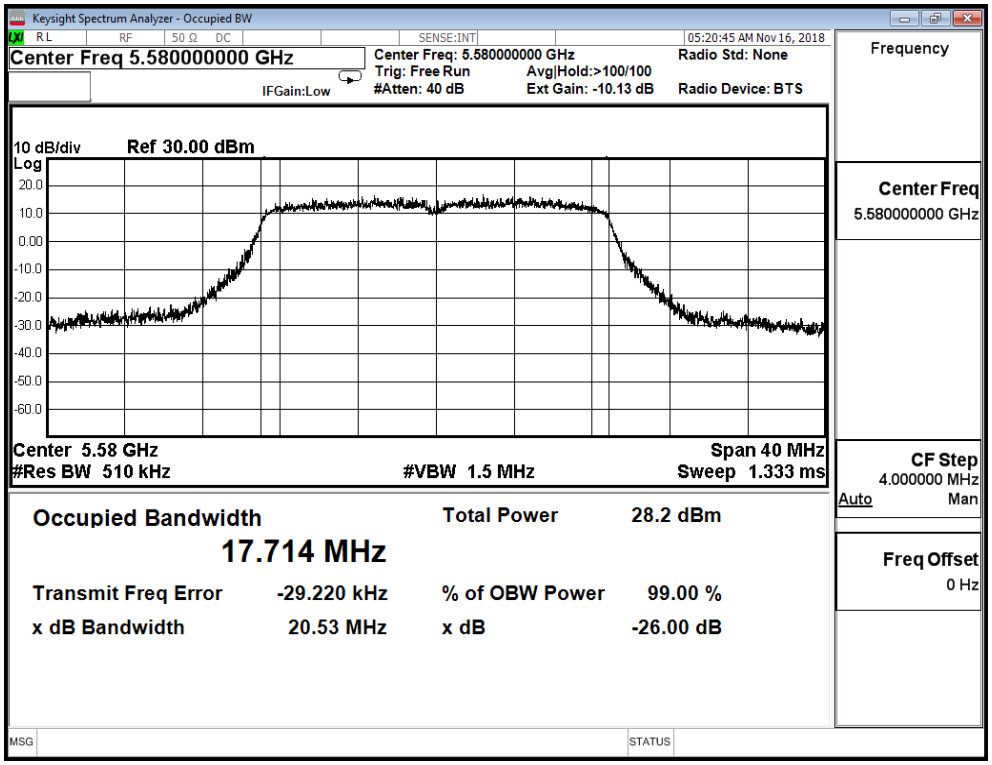
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11ac _20M(ANT 3)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
100	5500	17.746	20.930	--
116	5580	17.714	20.530	--
140	5700	17.740	20.770	--
144(Band3)	5720	13.873	15.410	--
144(Band4)	5720	3.873	--	--

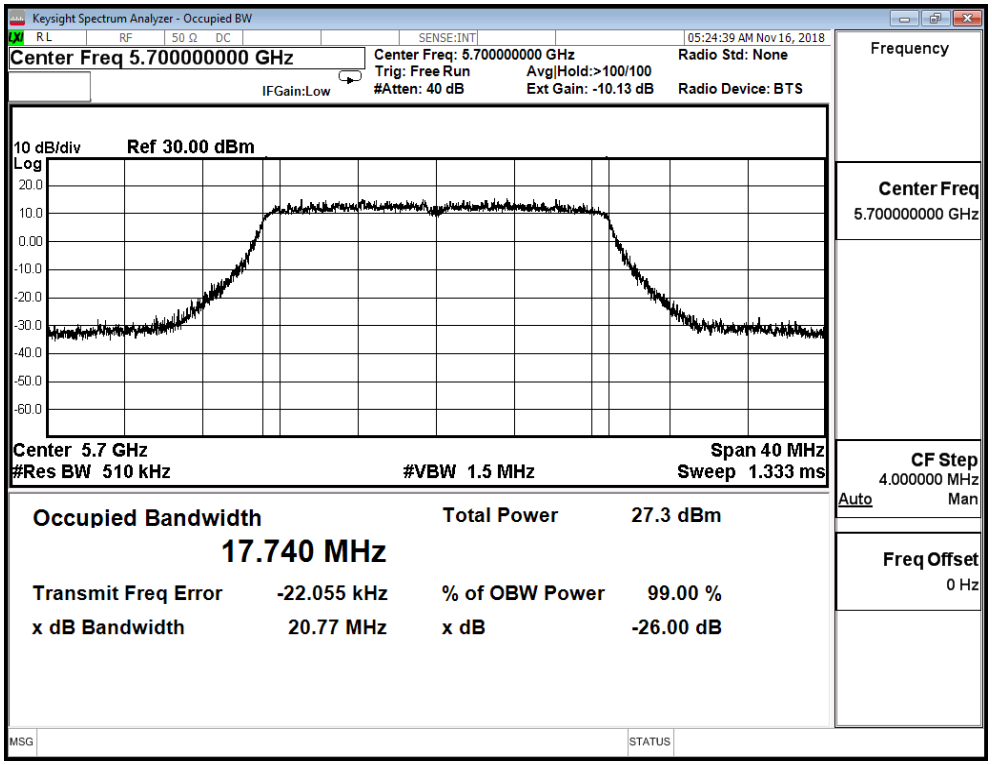
Channel 100



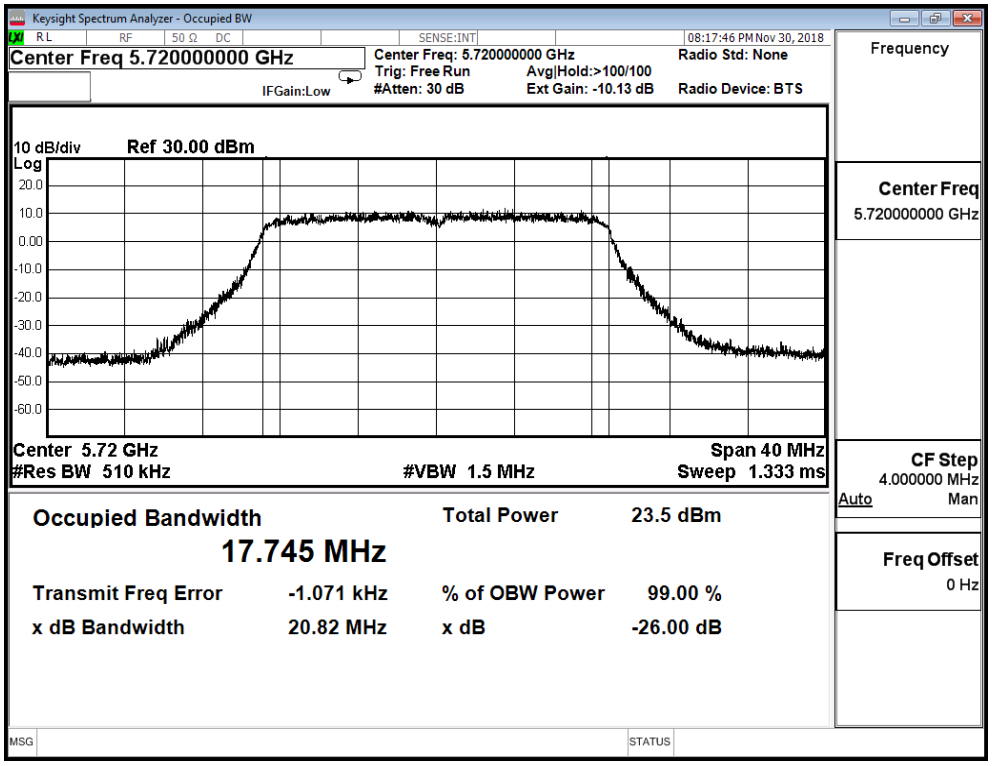
Channel 116



Channel 140



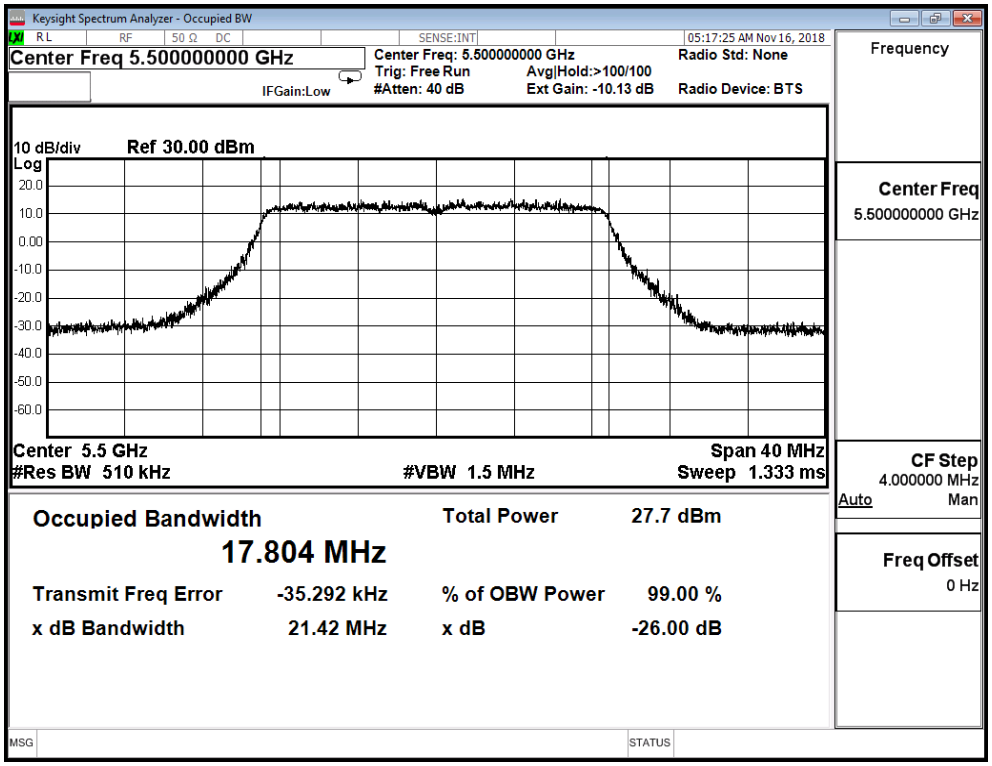
Channel 144


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
08:17:46 PM Nov 30, 2018
Center Freq 5.720000000 GHz
Center Freq: 5.720000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -10.13 dB
Radio Std: None
Radio Device: BTS
IFGain:Low
Frequency
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
5.720000000 GHz
Center 5.72 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
17.745 MHz
Total Power
23.5 dBm
Transmit Freq Error
-1.071 kHz
% of OBW Power
99.00 %
x dB Bandwidth
20.82 MHz
x dB
-26.00 dB
Freq Offset
0 Hz
MSG
STATUS

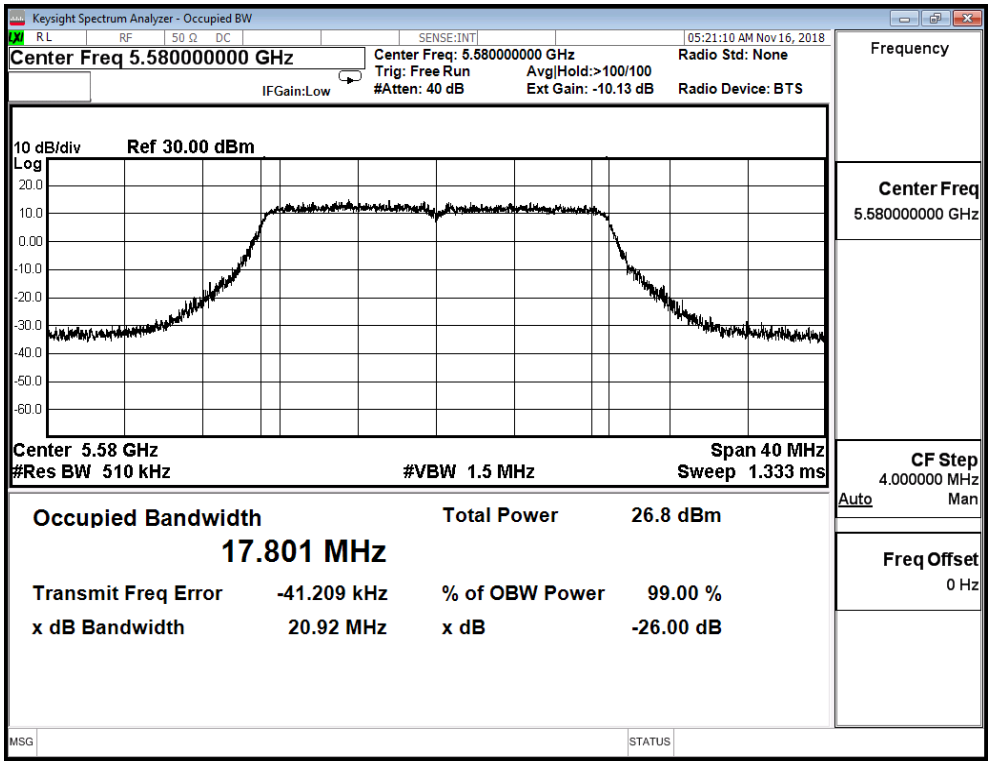
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11ac _20M(ANT 4)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
100	5500	17.804	21.420	--
116	5580	17.801	20.920	--
140	5700	17.772	20.880	--
144(Band3)	5720	13.863	15.310	--
144(Band4)	5720	3.863	--	--

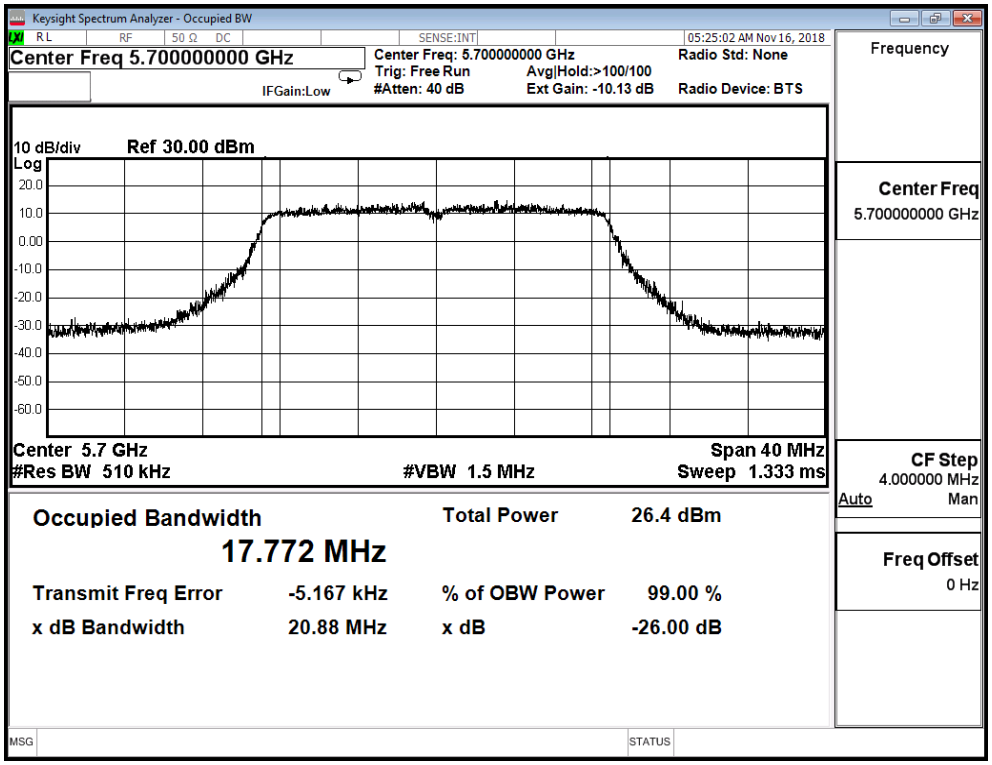
Channel 100



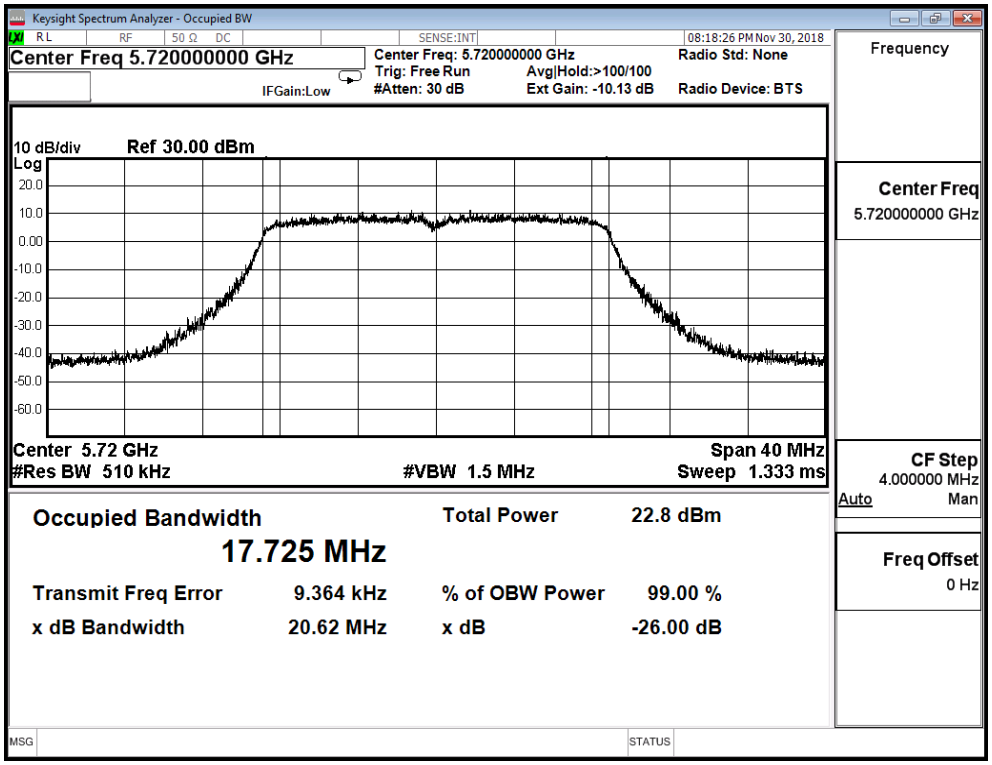
Channel 116



Channel 140



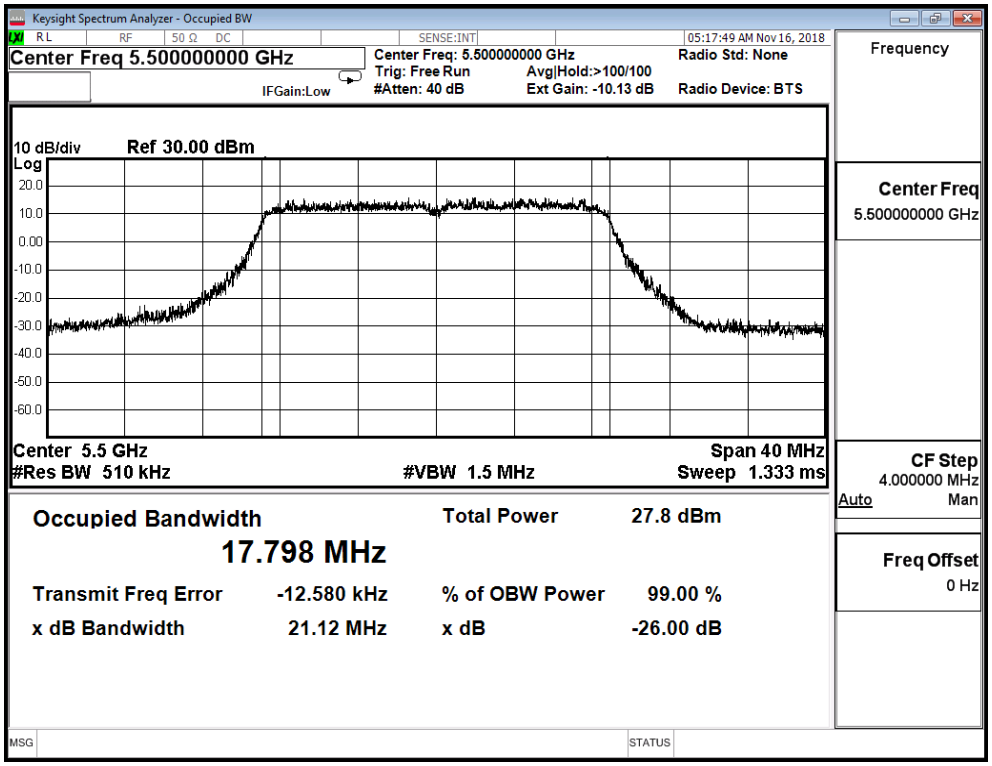
Channel 144


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
08:18:26 PM Nov 30, 2018
Center Freq 5.720000000 GHz
Center Freq: 5.720000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -10.13 dB
Radio Std: None
Radio Device: BTS
IFGain:Low
Frequency
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
5.720000000 GHz
Center 5.72 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
17.725 MHz
Total Power 22.8 dBm
Transmit Freq Error 9.364 kHz
% of OBW Power 99.00 %
x dB Bandwidth 20.62 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

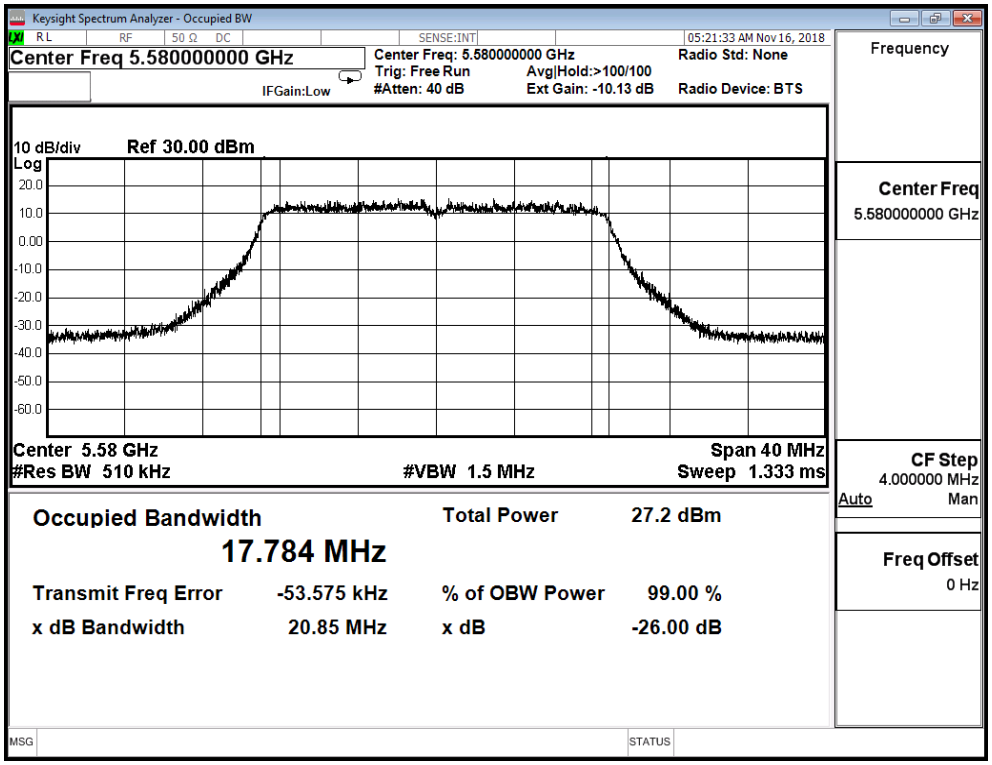
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11ac _20M(ANT 5)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
100	5500	17.798	21.120	--
116	5580	17.784	20.850	--
140	5700	17.790	20.910	--
144(Band3)	5720	13.876	15.300	--
144(Band4)	5720	3.876	--	--

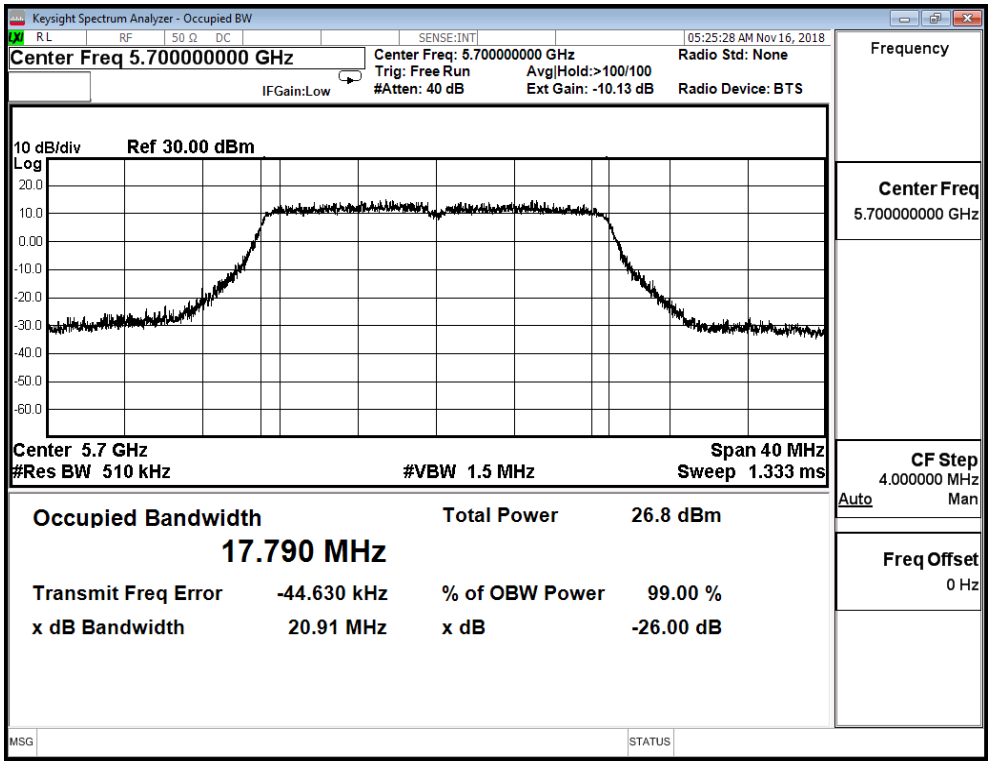
Channel 100



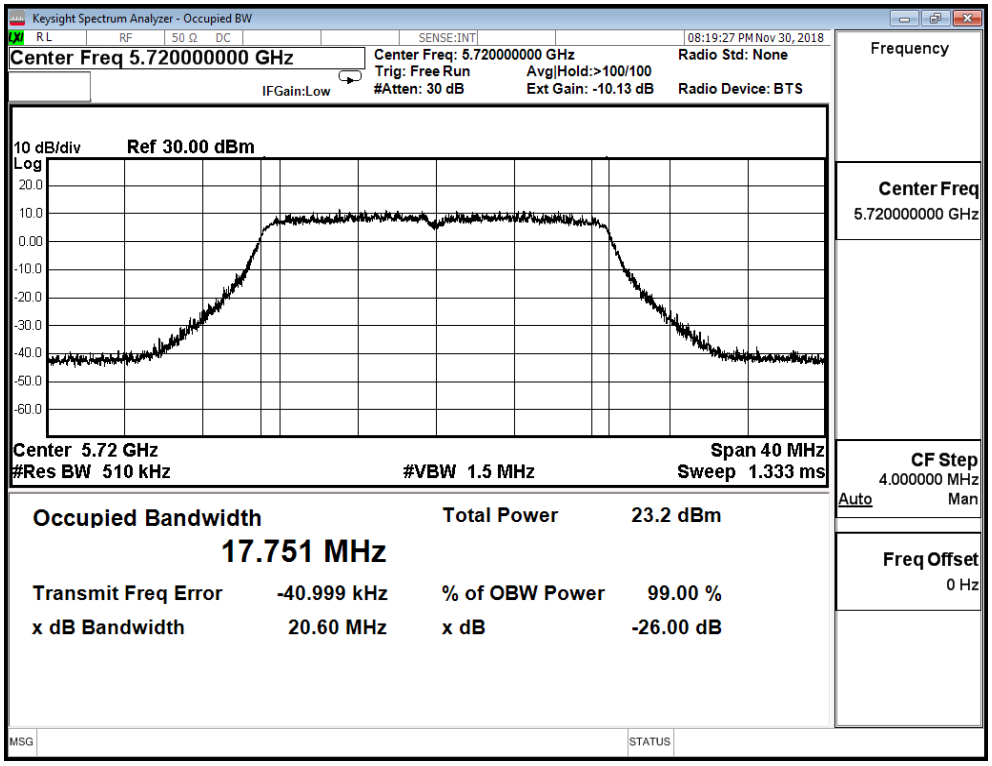
Channel 116



Channel 140



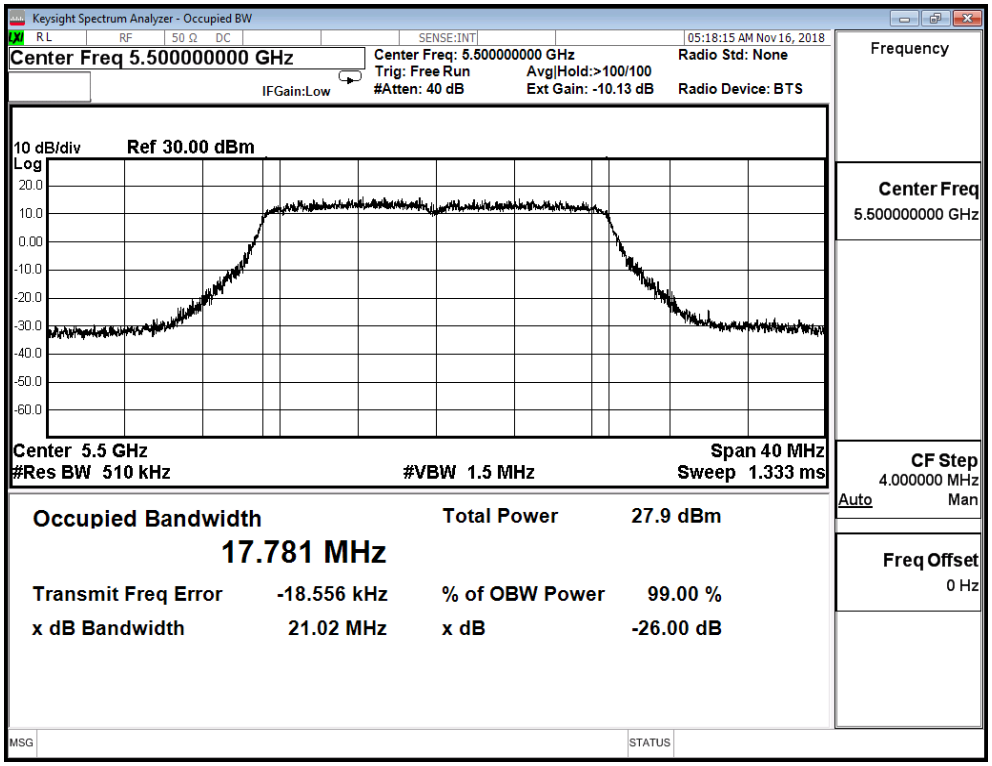
Channel 144


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
08:19:27 PM Nov 30, 2018
Center Freq 5.720000000 GHz
Center Freq: 5.720000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -10.13 dB
Radio Std: None
Radio Device: BTS
IFGain:Low
Frequency
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
5.720000000 GHz
Center 5.72 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
17.751 MHz
Total Power 23.2 dBm
Transmit Freq Error -40.999 kHz
% of OBW Power 99.00 %
x dB Bandwidth 20.60 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

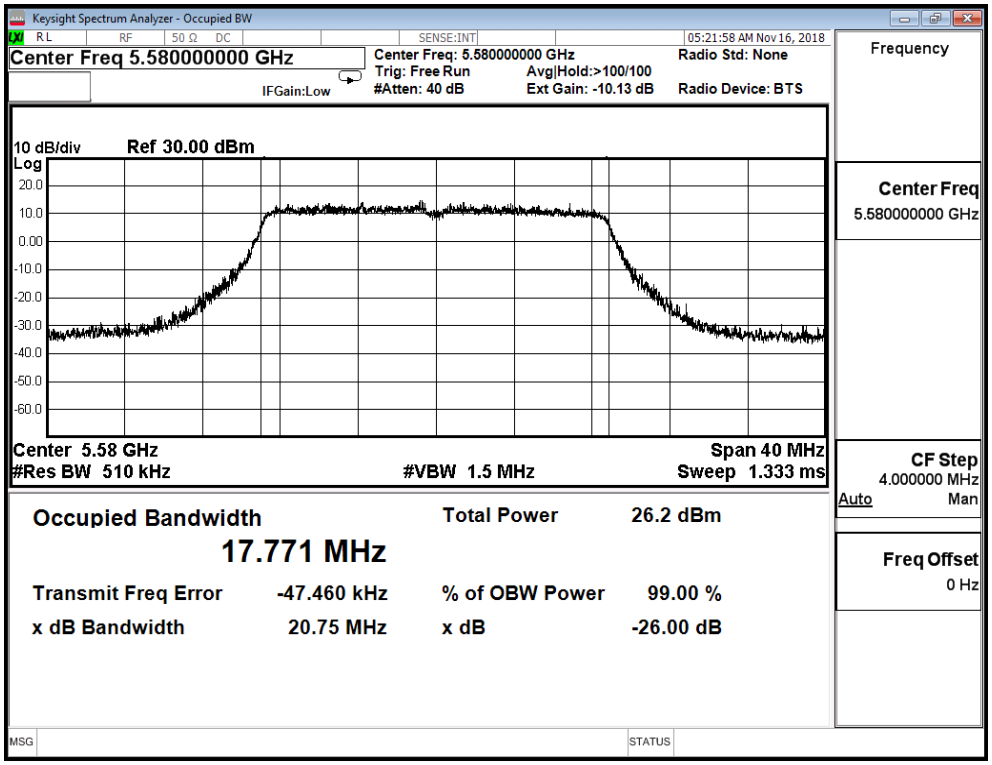
Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 14:TX_Non Beamforming_NSS1_ADP-65DW Y		
Date of Test	2018/11/16	Test Site	SR10-H

IEEE 802.11ac _20M(ANT 6)				
Channel No.	Frequency (MHz)	99% OCC BW Measure Value(MHz)	26dB OCC BW Measure Value(MHz)	Limit (MHz)
100	5500	17.781	21.020	--
116	5580	17.771	20.750	--
140	5700	17.793	21.000	--
144(Band3)	5720	13.882	15.370	--
144(Band4)	5720	3.882	--	--

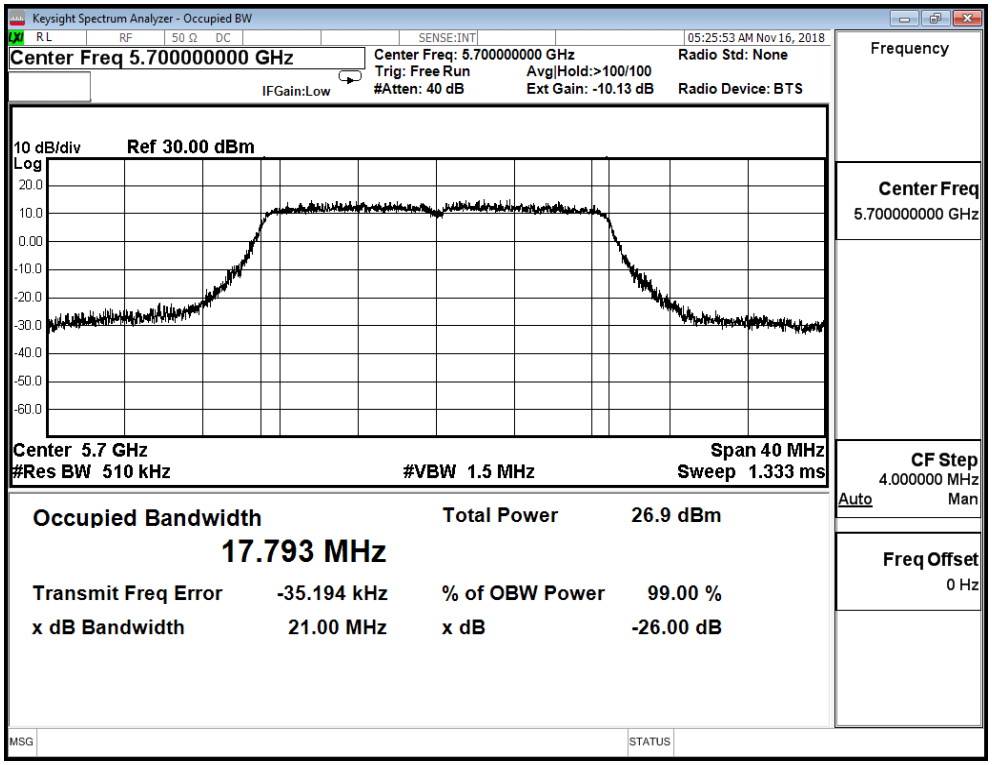
Channel 100



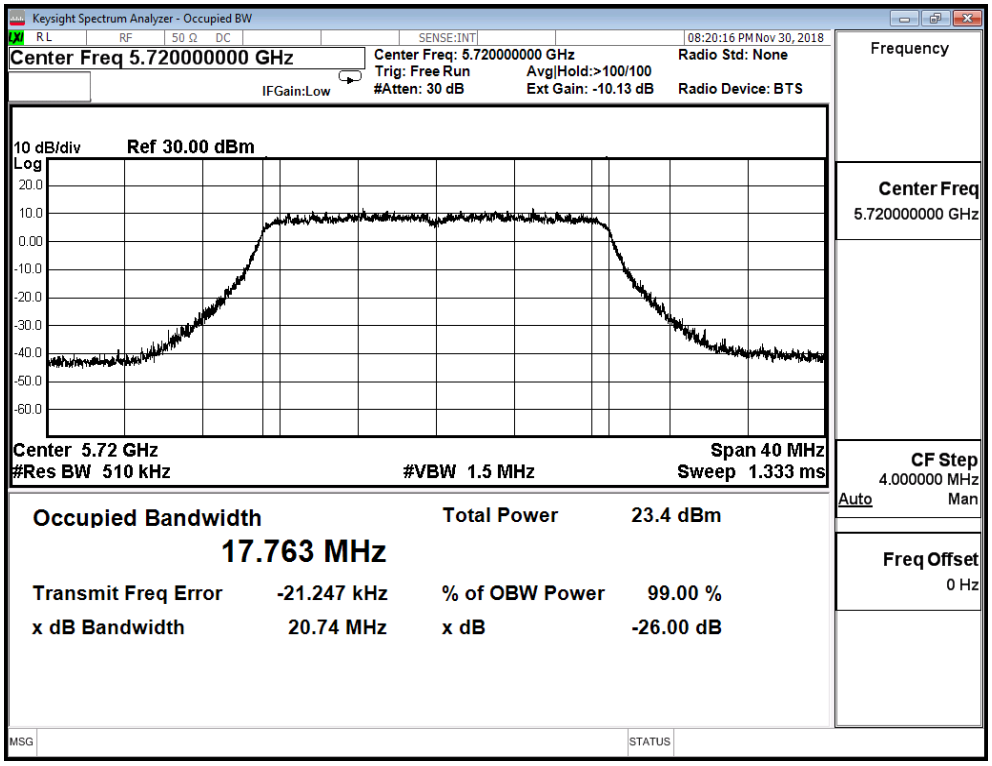
Channel 116



Channel 140



Channel 144


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω DC
SENSE:INT
08:20:16 PM Nov 30, 2018
Center Freq 5.720000000 GHz
IFGain:Low
Center Freq: 5.720000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -10.13 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
5.720000000 GHz
Center 5.72 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
17.763 MHz
Total Power 23.4 dBm
Transmit Freq Error -21.247 kHz
% of OBW Power 99.00 %
x dB Bandwidth 20.74 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS