

FCC Test Report

Product Name : Wireless-AC2600 Dual Band Gigabit Router
Trade Name : ASUS
Model No. : BLUE CAVE
FCC ID. : MSQ-RTHK00

Applicant : ASUSTeK COMPUTER INC.

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

Date of Receipt : Apr. 06, 2017

Issued Date : Jun. 02, 2017

Report No. : 1740167R-RFUSP43V00

Report Version : V1.0



The test results relate only to the samples tested.

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Test Report Certification

Issued Date : Jun. 02, 2017

Report No. : 1740167R-RFUSP43V00



Product Name : Wireless-AC2600 Dual Band Gigabit Router
Applicant : ASUSTeK COMPUTER INC.
Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
Manufacturer : ASUSTeK COMPUTER INC.
Model No. : BLUE CAVE
FCC ID. : MSQ-RTHK00
EUT Voltage : AC 100-240V, 50-60Hz
Testing Voltage : AC 120V/60Hz
Trade Name : ASUS
Applicable Standard : FCC CFR Title 47 Part 15 Subpart E Section 15.407: 2015
ANSI C63.10: 2013
KDB 789033.D02 V01r03
KDB 644545 D03 V01/KDB 662911 D01 V02r01
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Test Result : Complied

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Revision History

Report No.	Version	Description	Issued Date
1740167R-RFUSP43V00	V1.0	Initial issue of report	Jun. 02, 2017

Laboratory Information

We, **DEKRA Testing and Certification Co., Ltd.**, are an independent RF consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted (audited or listed) by the following related bodies in compliance with ISO 17025 specified testing scopes:

Taiwan R.O.C.	:	TAF, Accreditation Number: 3024
USA	:	FCC, Registration Number: 834100
Canada	:	IC, Submission No: 181665 / 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

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1. General Information

1.1. EUT Description

Product Name	Wireless-AC2600 Dual Band Gigabit Router	
Product Type	WLAN	
Trade Name	ASUS	
Model No.	BLUE CAVE	
Frequency Range/ Channel Number	IEEE 802.11a/	5180~5240MHz / 4 Channels
	IEEE 802.11n (20MHz) /	5745~5825MHz / 5 Channels
	IEEE 802.11ac (20MHz)	
	IEEE 802.11n (40MHz) /	5190~5230MHz / 2 Channels
	IEEE 802.11ac (40MHz)	5755~5795MHz / 2 Channels
	IEEE 802.11ac (80MHz)	5210~5210MHz / 1 Channel
		5775~5775MHz / 1 Channel
Type of Modulation	IEEE 802.11a/n/ac	Orthogonal Frequency Division Multiplexing (OFDM)
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 9 and bandwidth defined in 802.11ac

Antenna Information	
Antenna Type	Internal dipole antenna
Antenna Gain (Max effective array gain(dBi))	5G Band 1: 7.49 5G Band 2: 7.24 5G Band 3: 7.13 5G Band 4: 7.24

Accessories Information	
LAN Cable	Non-Shielded, 1.5m
Power Adatper (Level 6)	ASUS, AD890326 I/P : 100-240V~ 50/60Hz 0.8A O/P : 19V $\overline{=}$ 1.75A Cable Out: Non-Shielded, 2.4m
Power Adatper (Level 6)	ASUS, ADP-33AW B I/P : 100-240V~1A 50-60Hz O/P : 19V $\overline{=}$ 1.75A Cable Out: Non-Shielded, 2.2m

ANT-TX / RX & Bandwidth

ANT-TX / RX	TX			RX		
	20MHz	40MHz	80MHz	20MHz	40MHz	80MHz
IEEE802.11a	✓			✓		
IEEE802.11n	✓	✓		✓	✓	
IEEE802.11ac	✓	✓	✓	✓	✓	✓

IEEE 802.11n

MCS Index	Modulation	R	N _{BPSCS}	N _{CBPS}		N _{DBPS}		Data Rate(Mb/s)			
				20MHz	40MHz	20MHz	40MHz	800ns GI		400ns GI	
								20MHz	40MHz	20MHz	40MHz
0	BPSK	1/2	1	52	108	26	54	6.5	13.5	7.2	15.0
1	QPSK	1/2	2	104	216	52	108	13.0	27.0	14.4	30.0
2	QPSK	3/4	2	104	216	78	162	19.5	40.5	21.7	45.0
3	16-QAM	1/2	4	208	432	104	216	26.0	54.0	28.9	60.0
4	16-QAM	3/4	4	208	432	156	324	39.0	81.0	43.3	90.0
5	64-QAM	2/3	6	312	648	208	432	52.0	108.0	57.8	120.0
6	64-QAM	3/4	6	312	648	234	486	58.5	121.5	65.0	135.0
7	64-QAM	5/6	6	312	648	260	540	65.0	135.0	72.2	150.0

Note 1: Support of 400ns GI is optional on transmit and receive.

Table 1 – MCS parameters for TX Antenna number = 1

MCS Index	Modulation	R	N _{BPSCS}	N _{CBPS}		N _{DBPS}		Data Rate(Mb/s)			
				20MHz	40MHz	20MHz	40MHz	800ns GI		400ns GI	
								20MHz	40MHz	20MHz	40MHz
8	BPSK	1/2	1	104	216	52	108	13.0	27.0	14.4	30.0
9	QPSK	1/2	2	208	432	104	216	26.0	54.0	28.9	60.0
10	QPSK	3/4	2	208	432	156	324	39.0	81.0	43.3	90.0
11	16-QAM	1/2	4	416	864	208	432	52.0	108.0	57.8	120.0
12	16-QAM	3/4	4	416	864	312	648	78.0	162.0	86.7	180.0
13	64-QAM	2/3	6	624	1296	416	864	104.0	216.0	115.6	240.0
14	64-QAM	3/4	6	624	1296	468	972	117.0	243.0	130.0	270.0
15	64-QAM	5/6	6	624	1296	520	1080	130.0	270.0	144.4	300.0

Note 1: Support of 400ns GI is optional on transmit and receive.

Table 2 – MCS parameters for TX Antenna number = 2

MCS Index	Modulation	R	N _{BPSCS}	N _{CBPS}		N _{DBPS}		Data Rate(Mb/s)			
				20MHz	40MHz	20MHz	40MHz	800ns GI		400ns GI	
								20MHz	40MHz	20MHz	40MHz
16	BPSK	1/2	1	156	324	78	162	19.5	40.5	21.7	45.0
17	QPSK	1/2	2	312	648	156	324	39.0	81.0	43.3	90.0
18	QPSK	3/4	2	312	648	234	486	58.5	121.5	65.0	135.0
19	16-QAM	1/2	4	624	1296	312	648	78.0	162.0	86.7	180.0
20	16-QAM	3/4	4	624	1296	468	972	117.0	243.0	130.0	270.0
21	64-QAM	2/3	6	936	1944	624	1296	156.0	324.0	173.3	360.0
22	64-QAM	3/4	6	936	1944	702	1458	175.5	364.5	195.0	405.0
23	64-QAM	5/6	6	936	1944	780	1620	195.0	405.0	216.7	450.0

Note 1: Support of 400ns GI is optional on transmit and receive.

Table 3 – MCS parameters for TX Antenna number = 3

MCS Index	Modulation	R	N _{BPSCS}	N _{CBPS}		N _{DBPS}		Data Rate(Mb/s)			
				20MHz	40MHz	20MHz	40MHz	800ns GI		400ns GI	
								20MHz	40MHz	20MHz	40MHz
24	BPSK	1/2	1	208	432	104	216	26.00	54.00	28.80	60.00
25	QPSK	1/2	2	416	864	208	432	52.00	108.00	57.60	120.00
26	QPSK	3/4	2	416	864	312	648	78.00	162.00	86.80	180.00
27	16-QAM	1/2	4	832	1728	416	864	104.00	216.00	115.60	240.00
28	16-QAM	3/4	4	832	1728	624	1296	156.00	324.00	172.20	360.00
29	64-QAM	2/3	6	1248	2592	832	1728	208.00	432.00	231.20	480.00
30	64-QAM	3/4	6	1248	2592	936	1944	234.00	486.00	260.00	540.00
31	64-QAM	5/6	6	1248	2592	1040	2040	260.00	540.00	288.80	600.00

Note 1: Support of 400ns GI is optional on transmit and receive.

Table 4 – MCS parameters for TX Antenna number = 4

Symbol	Explanation
R	Code rate
N _{BPSC}	Number of coded bits per single carrier
N _{CBPS}	Number of coded bits per symbol
N _{DBPS}	Number of data bits per symbol
GI	guard interval

IEEE 802.11ac Data Rate

Spatial Streams (Note1)	MCS Index	Modulation type	Coding rate	Data Rate(Mb/s)					
				20 MHz		40 MHz		80 MHz	
				Guard Interval		Guard Interval		Guard Interval	
				800ns	400ns	800ns	400ns	800ns	400ns
1	0	BPSK	1/2	6.5	7.2	13.5	15	29.3	32.5
	1	QPSK	1/2	13	14.4	27	30	58.5	65
	2	QPSK	3/4	19.5	21.7	40.5	45	87.8	97.5
	3	16-QAM	1/2	26	28.9	54	60	117	130
	4	16-QAM	3/4	39	43.3	81	90	175.5	195
	5	64-QAM	2/3	52	57.8	108	120	234	260
	6	64-QAM	3/4	58.5	65	121.5	135	263.3	292.5
	7	64-QAM	5/6	65	72.2	135	150	292.5	325
	8	256-QAM	3/4	78	86.7	162	180	351	390
	9	256-QAM	5/6	N/A	N/A	180	200	390	433.3
2	0	BPSK	1/2	13	14.4	27	30	58.6	65
	1	QPSK	1/2	26	28.8	54	60	117	130
	2	QPSK	3/4	39	43.4	81	90	175.6	195
	3	16-QAM	1/2	52	57.8	108	120	234	260
	4	16-QAM	3/4	78	86.6	162	180	351	390
	5	64-QAM	2/3	104	115.6	216	240	468	520
	6	64-QAM	3/4	117	130	243	270	526.6	585
	7	64-QAM	5/6	130	144.4	270	300	585	650
	8	256-QAM	3/4	156	173.4	324	360	702	780
	9	256-QAM	5/6	N/A	N/A	360	400	780	866.6
3	0	BPSK	1/2	19.5	21.6	40.5	45	87.9	97.5
	1	QPSK	1/2	39	43.2	81	90	175.5	195
	2	QPSK	3/4	58.5	65.1	121.5	135	263.4	292.5
	3	16-QAM	1/2	78	86.7	162	180	351	390
	4	16-QAM	3/4	117	129.9	243	270	526.5	585
	5	64-QAM	2/3	156	173.4	324	360	702	780
	6	64-QAM	3/4	175.5	195	364.5	405	789.9	877.5
	7	64-QAM	5/6	195	216.6	405	450	877.5	975
	8	256-QAM	3/4	234	260.1	486	540	1053	1170
	9	256-QAM	5/6	N/A	N/A	540	600	1170	1299.9

4	0	BPSK	1/2	26.0	28.9	54.0	60.0	117.0	130.0
	1	QPSK	1/2	52.0	57.8	108.0	120.0	234.0	260.0
	2	QPSK	3/4	78.0	86.7	162.0	180.0	351.0	390.0
	3	16-QAM	1/2	104.0	115.6	216.0	240.0	468.0	520.0
	4	16-QAM	3/4	156.0	173.3	342.0	360.0	702.0	780.0
	5	64-QAM	2/3	208.0	231.1	432.0	480.0	936.0	1040.0
	6	64-QAM	3/4	234.0	260.0	486.0	540.0	1053.0	1170.0
	7	64-QAM	5/6	260.0	288.9	540.0	600.0	1170.0	1300.0
	8	256-QAM	3/4	312.0	346.7	648.0	720.0	1404.0	1560.0
	9	256-QAM	5/6	N/A	N/A	720.0	800.0	1560.0	1733.3

IEEE 802.11a & IEEE 802.11n (20MHz) & IEEE 802.11ac (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
149	5745 MHz	153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825 MHz						

IEEE 802.11n (40MHz) & IEEE 802.11ac (40MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	151	5755 MHz	159	5795 MHz

IEEE 802.11ac (80MHz)

Working Frequency of Each Channel	
Channel	Frequency
42	5210 MHz
155	5775 MHz

Note:

1. This device is a Wireless-AC2600 Dual Band Gigabit Router including 2.4GHz b/g/n (3x3) and 5GHz a/n/ac (4x4) and BT4.0 / BT 2.0 transmitting and receiving function.
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. The function of the BT2.0/BT4.0/2.4G transmitting is measured and makes a test report of the number: 1740167R-RFUSP03V00/1740167R-RFUSP03V00-A/1740167R-RFUSP28V00.
4. This device is a composite device in accordance with Part 15 regulations. The receiving function was tested and its number is 1740167R-RFUSP01V00.

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.

TX	Mode 1: TX CDD_ ADP: AD890326 Mode 2: TX MIMO_ ADP: AD890326 Mode 3: TX BF_ ADP: AD890326 Mode 4:TX_ ADP: ADP-33AW B
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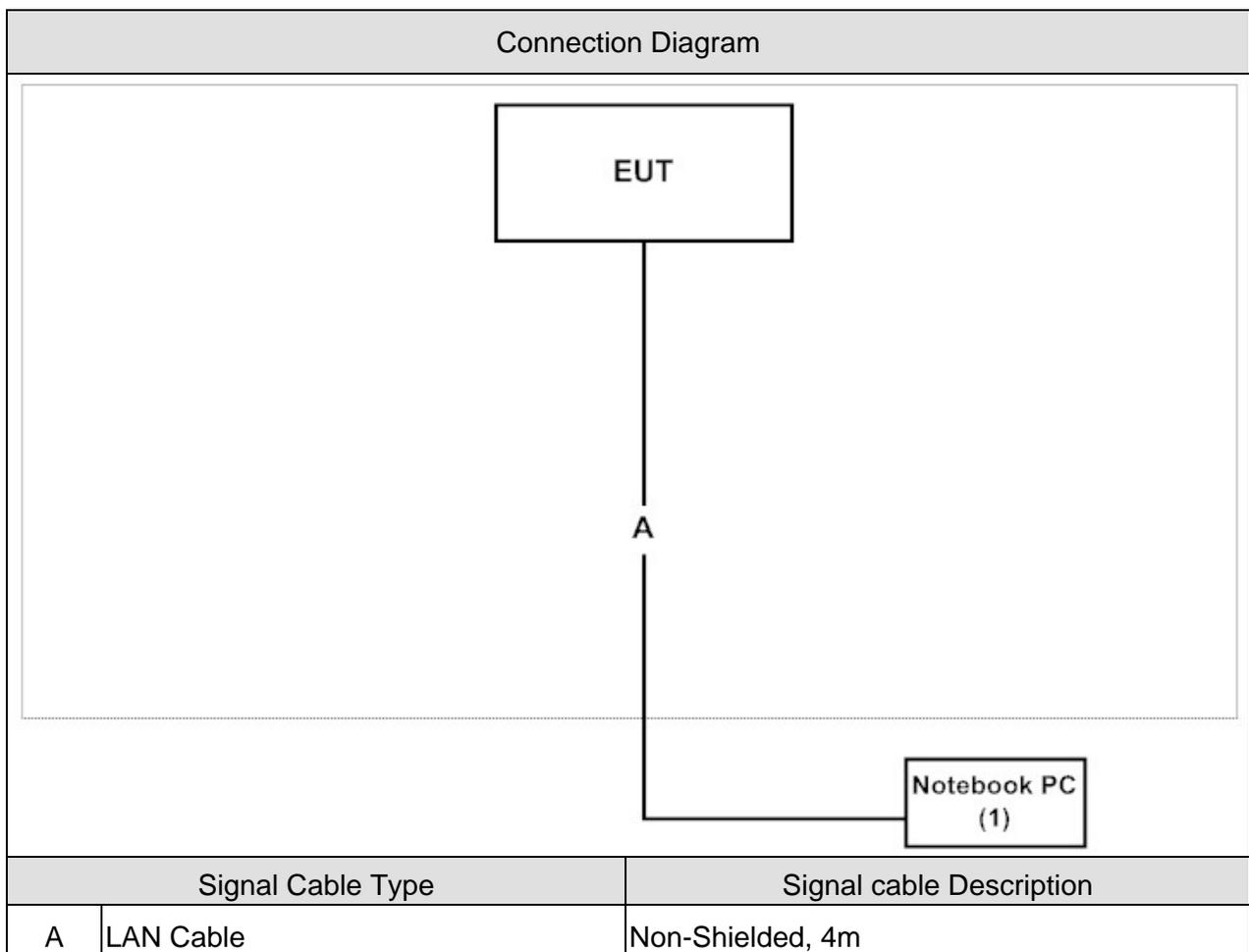
Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11ac (80MHz)	42/155	0+1+2+3	Complies
99% & 26dB & DTS Bandwidth	a	36/44/48/149/157/165	0/1/2/3	Complies
	11n/ac (20MHz)	36/44/48/149/157/165	0/1/2/3	Complies
	11n/ac (40MHz)	38/46/151/159	0/1/2/3	Complies
	11ac (80MHz)	42/155	0/1/2/3	Complies
Peak Transmit Output	a	36/44/48/149/157/165	0+1+2+3	Complies
	11n/ac (20MHz)	36/44/48/149/157/165	0+1+2+3	Complies
	11n/ac (40MHz)	38/46/151/159	0+1+2+3	Complies
	11ac (80MHz)	42/155	0+1+2+3	Complies
Peak Power Spectrum Density	a	36/44/48/149/157/165	0+1+2+3	Complies
	11n/ac (20MHz)	36/44/48/149/157/165	0+1+2+3	Complies
	11n/ac (40MHz)	38/46/151/159	0+1+2+3	Complies
	11ac (80MHz)	42/155	0+1+2+3	Complies
Radiated Emission	a	36/44/48/149/157/165	0+1+2+3	Complies
	11n/ac (20MHz)	36/44/48/149/157/165	0+1+2+3	Complies
	11n/ac (40MHz)	38/46/151/159	0+1+2+3	Complies
	11ac (80MHz)	42/155	0+1+2+3	Complies
Band Edge	a	36/44/48/149/157/165	0+1+2+3	Complies
	11n/ac (20MHz)	36/44/48/149/157/165	0+1+2+3	Complies
	11n/ac (40MHz)	38/46/151/159	0+1+2+3	Complies
	11ac (80MHz)	42/155	0+1+2+3	Complies
RF antenna conducted test	a	36/44/48/149/157/165	0/1/2/3	Complies
	11n/ac (20MHz)	36/44/48/149/157/165	0/1/2/3	Complies
	11n/ac (40MHz)	38/46/151/159	0/1/2/3	Complies
	11ac (80MHz)	42/155	0/1/2/3	Complies
Frequency Stability	a	36/48/149/165	0/1/2/3	Complies
	11n/ac (20MHz)	36/48/149/165	0/1/2/3	Complies
	11n/ac (40MHz)	38/46/151/159	0/1/2/3	Complies
	11ac (80MHz)	42/155	0/1/2/3	Complies

1.3. Tested System Details

The types for all equipment, 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	IBM	Think Pad 570	27L8835	DoC	Non-Shielded, 1.8m, one ferrite core bonded

1.4. Configuration of tested System



1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the “Lantiq DUT” on the EUT.
3	Configure the test mode, the test channel, and the data rate.
4	Press “Start TX” 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 99% & 26dB & 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 Peak Transmit 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 Peak Power Spectrum 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	
Temperature (°C)	FCC PART 15 E 15.407 RF antenna conducted test	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 Frequency Stability	15 - 35	25°C	3
Humidity (%RH)		25 - 75	45%RH	
Barometric pressure (mbar)		860 - 1060	950-1000	

Note: Test site information refers to Laboratory Information.

1.7. Duty Cycle

Modulation	Duty cycle	Radiated offset
802.11a(CDD)	>98%	--
802.11n20(MIMO)	≐96%	0.315
802.11n40(MIMO)	≐95%	0.451
802.11 ac80(MIMO)	≐97%	0.251
802.11n20(BF)	≐0.96%	0.352
802.11n40(BF)	≐0.95%	0.443
802.11 ac80(BF)	≐96%	0.362

Note:

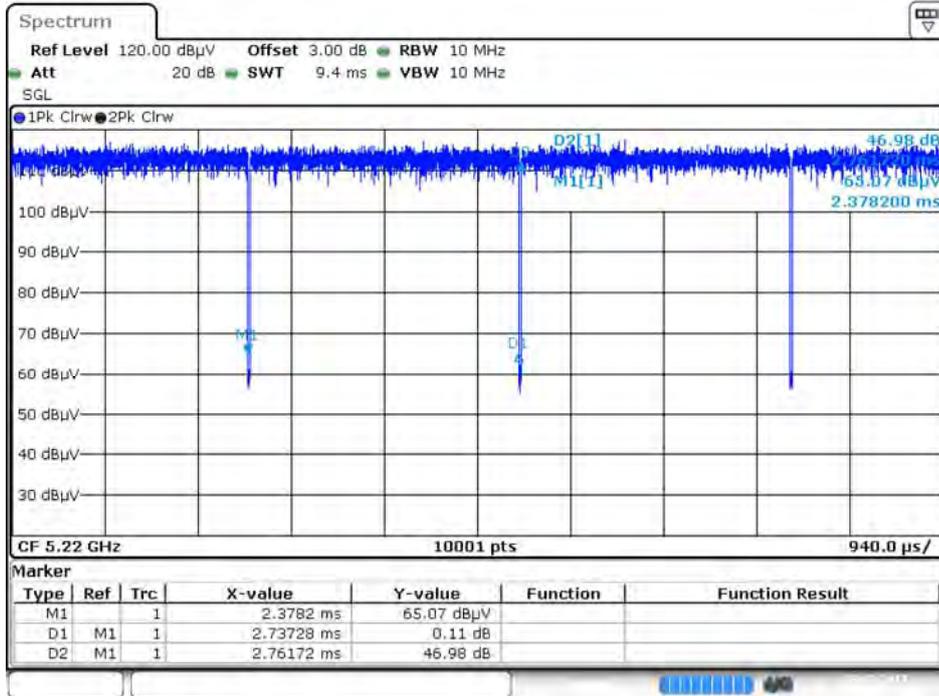
Offset = $20 \log(1/\text{duty cycle})$

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.

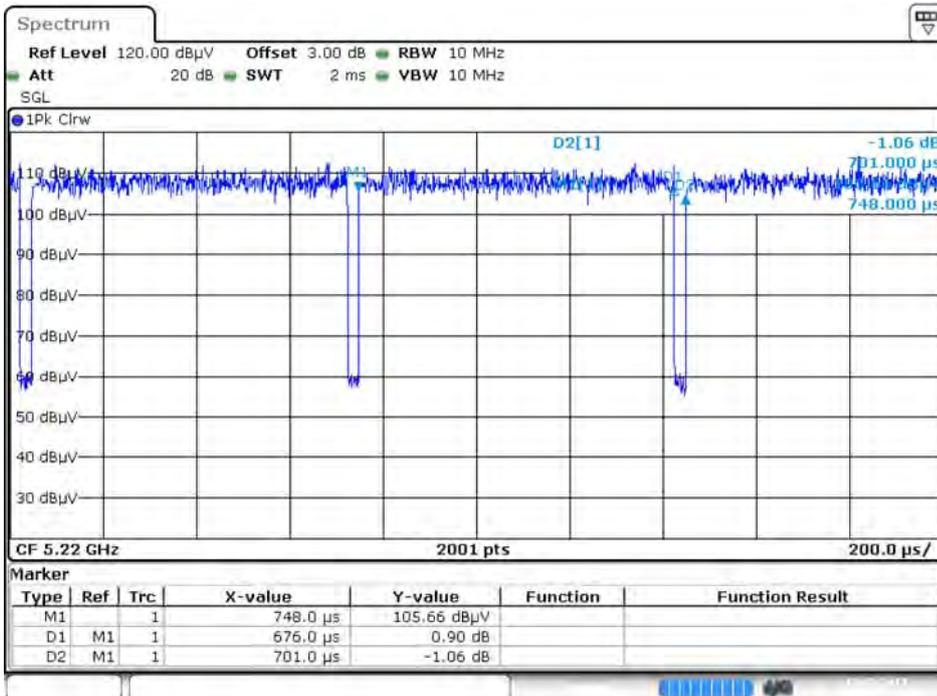
If linear voltage averaging mode was used in step (iv) above, the correction factor is $20 \log(1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.

802.11a



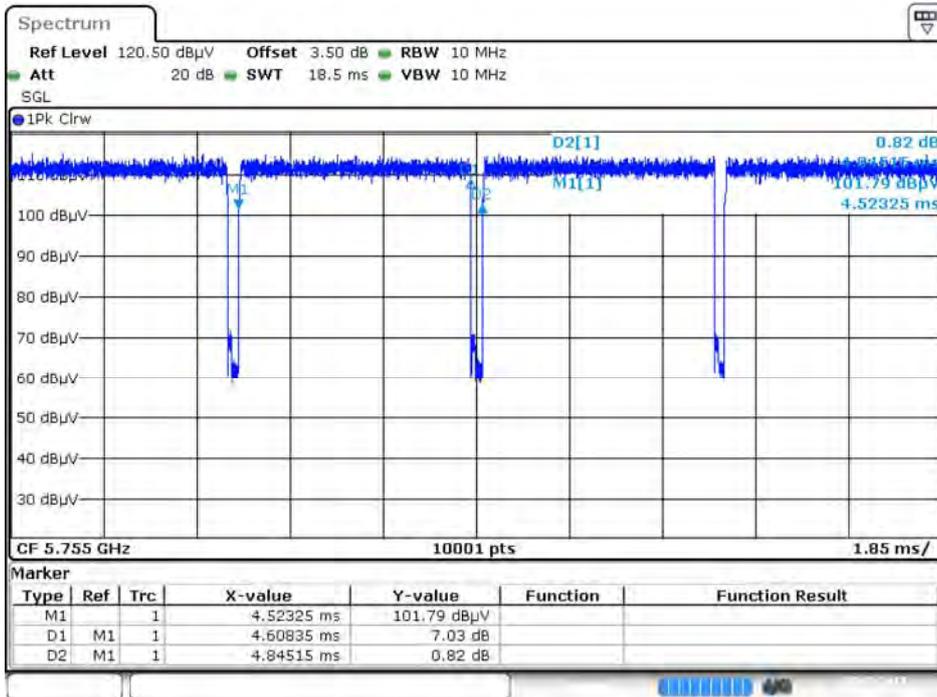
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802.11n20



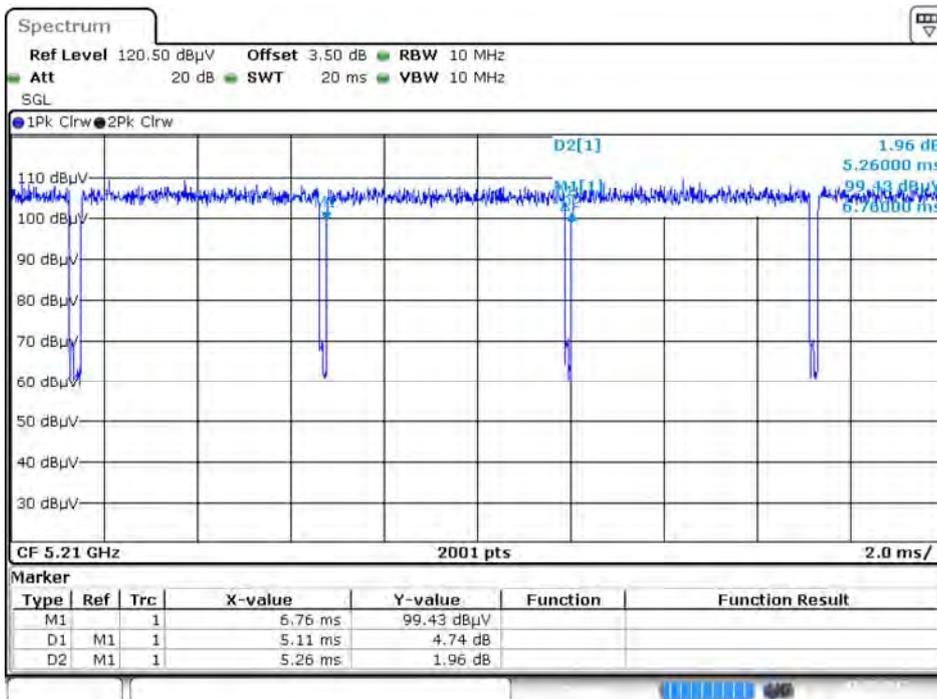
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802.11n 40



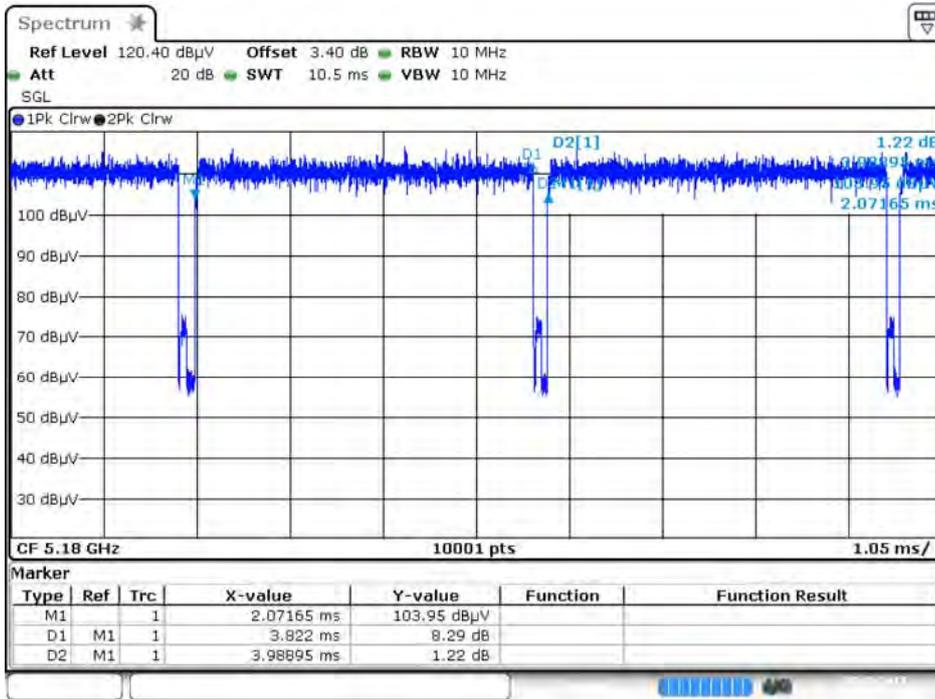
Date: 7.MAY.2017 19:37:22

802.11ac 80



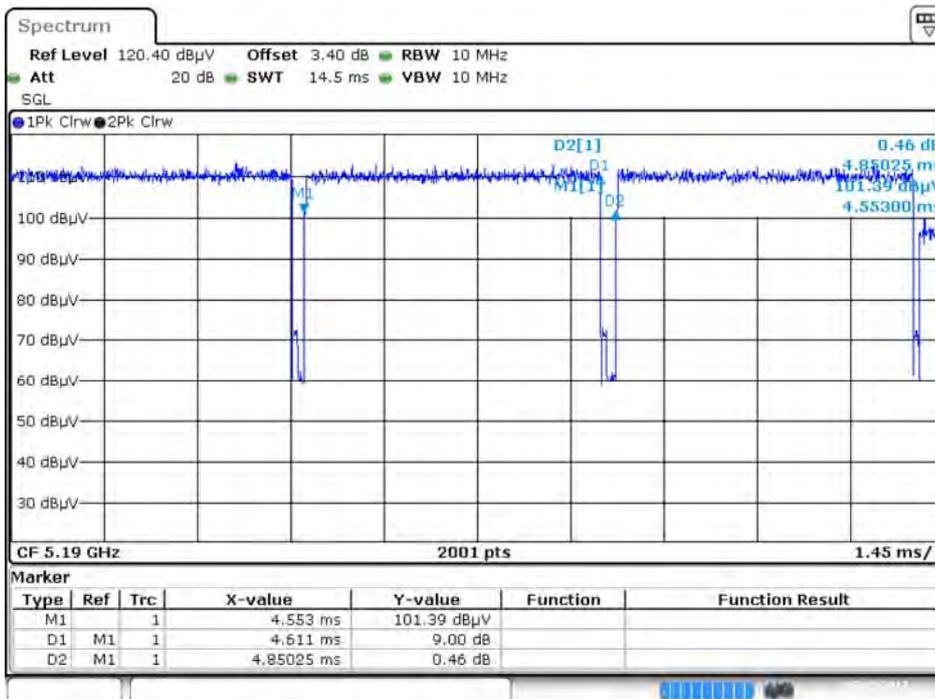
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802.11n 20(BF)



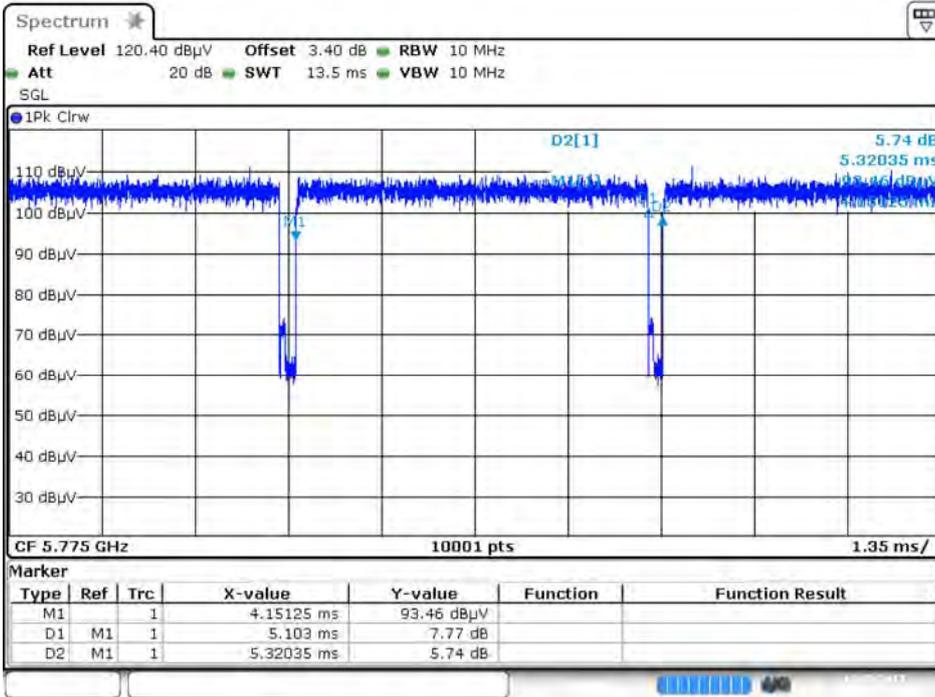
Date: 7.MAY.2017 12:52:11

802.11n 40(BF)



Date: 7.MAY.2017 14:18:46

802.11ac 80(BF)



Date: 11.MAY.2017 14:15:12

2. Conducted Emission

2.1. Test Equipment

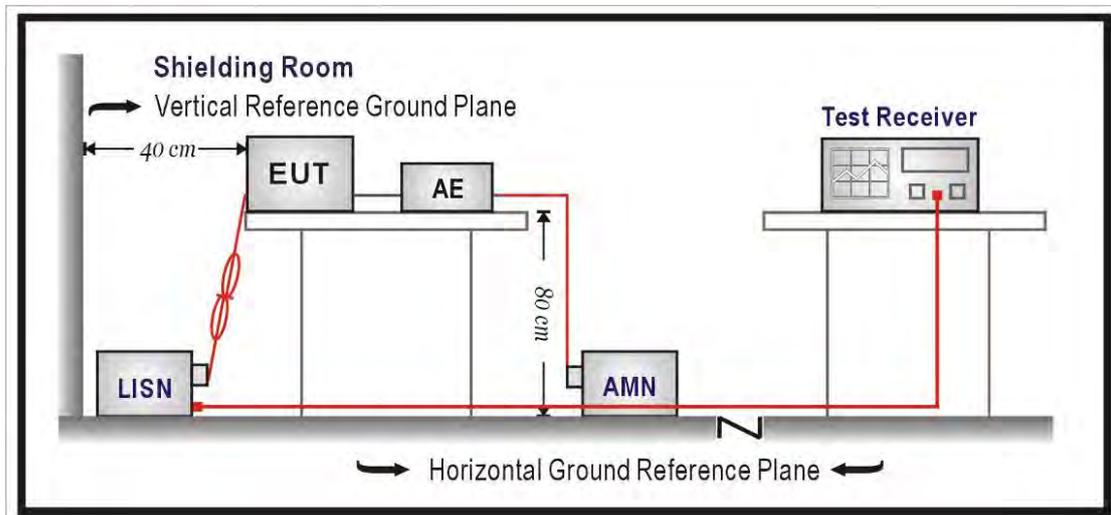
The following test equipment are used during the test:

Conducted Emission / SR2-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2018/02/05
LISN	R&S	ENV216	100092	2017/08/16
Test Receiver	R&S	ESCS 30	836858/022	2018/01/14

Note: All equipment that need to calibrate are with calibration period of 1 year.

2.2. Test Setup



2.3. 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.

2.4. 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.

2.5. Test Specification

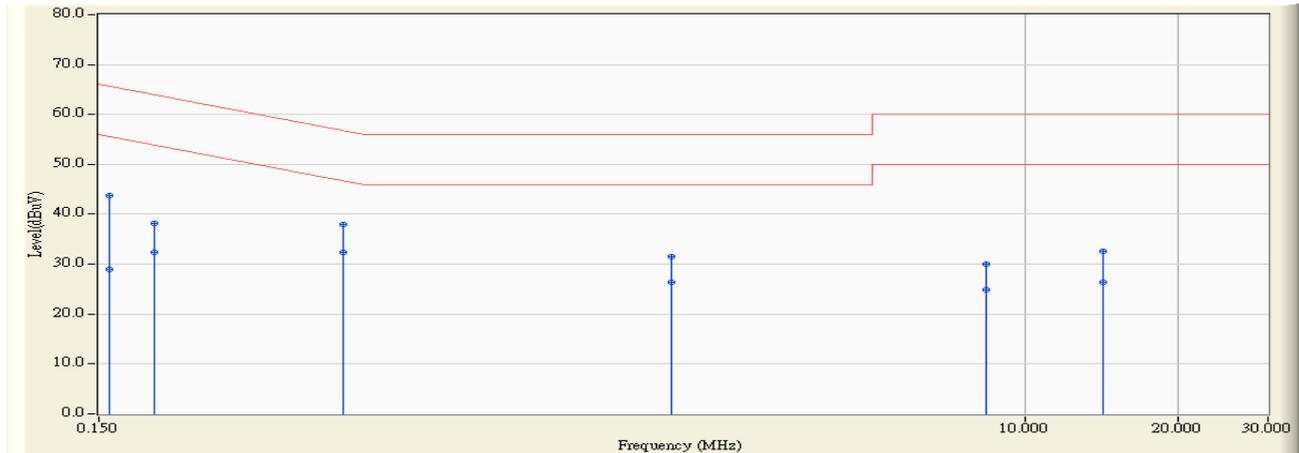
According to FCC Part 15 Subpart C Paragraph 15.207: 2015

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR2-H	Time : 2017/05/02
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H_LISN(16A)-6_0712 - Line1	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 2: TX MIMO_ ADP: AD890326 802.11ac(80M)_5210MHz

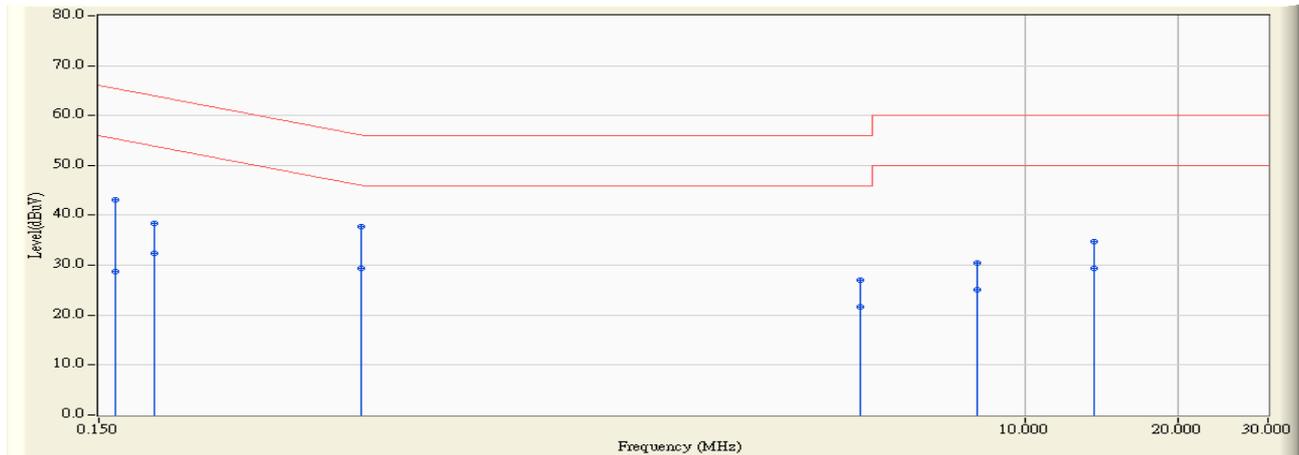


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.158	9.751	33.950	43.701	-21.877	65.578	QUASPEAK
2	0.158	9.751	19.260	29.011	-26.567	55.578	AVERAGE
3	0.193	9.751	28.360	38.111	-25.797	63.908	QUASPEAK
4	0.193	9.751	22.650	32.401	-21.507	53.908	AVERAGE
5	0.455	9.729	28.320	38.049	-18.740	56.789	QUASPEAK
6	* 0.455	9.729	22.750	32.479	-14.310	46.789	AVERAGE
7	2.013	9.860	21.720	31.580	-24.420	56.000	QUASPEAK
8	2.013	9.860	16.450	26.310	-19.690	46.000	AVERAGE
9	8.357	10.061	20.060	30.122	-29.878	60.000	QUASPEAK
10	8.357	10.061	14.740	24.802	-25.198	50.000	AVERAGE
11	14.213	10.206	22.410	32.616	-27.384	60.000	QUASPEAK
12	14.213	10.206	16.230	26.436	-23.564	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 : 2017/05/02
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H_LISN(16A)-6_0712 - Line2	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 2: TX MIMO_ ADP: AD890326
	802.11ac(80M)_5210MHz

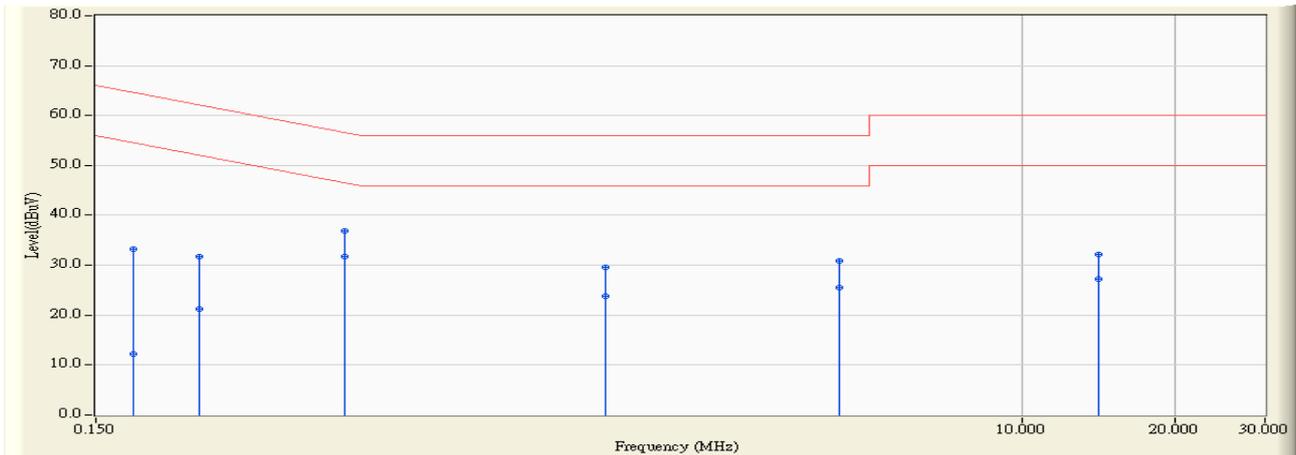


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.162	9.754	33.310	43.064	-22.311	65.375	QUASPEAK
2	0.162	9.754	18.940	28.694	-26.681	55.375	AVERAGE
3	0.193	9.751	28.610	38.361	-25.547	63.908	QUASPEAK
4	0.193	9.751	22.650	32.401	-21.507	53.908	AVERAGE
5	0.494	9.745	27.950	37.696	-18.409	56.104	QUASPEAK
6	*	9.745	19.550	29.296	-16.809	46.104	AVERAGE
7	4.713	9.853	17.190	27.043	-28.957	56.000	QUASPEAK
8	4.713	9.853	11.780	21.633	-24.367	46.000	AVERAGE
9	8.009	10.034	20.400	30.434	-29.566	60.000	QUASPEAK
10	8.009	10.034	15.070	25.104	-24.896	50.000	AVERAGE
11	13.630	10.267	24.390	34.656	-25.344	60.000	QUASPEAK
12	13.630	10.267	19.220	29.486	-20.514	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 : 2017/05/02
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H_LISN(16A)-6_0712 - Line1	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 2: TX MIMO_ ADP: AD890326 802.11ac(80M)_5775MHz

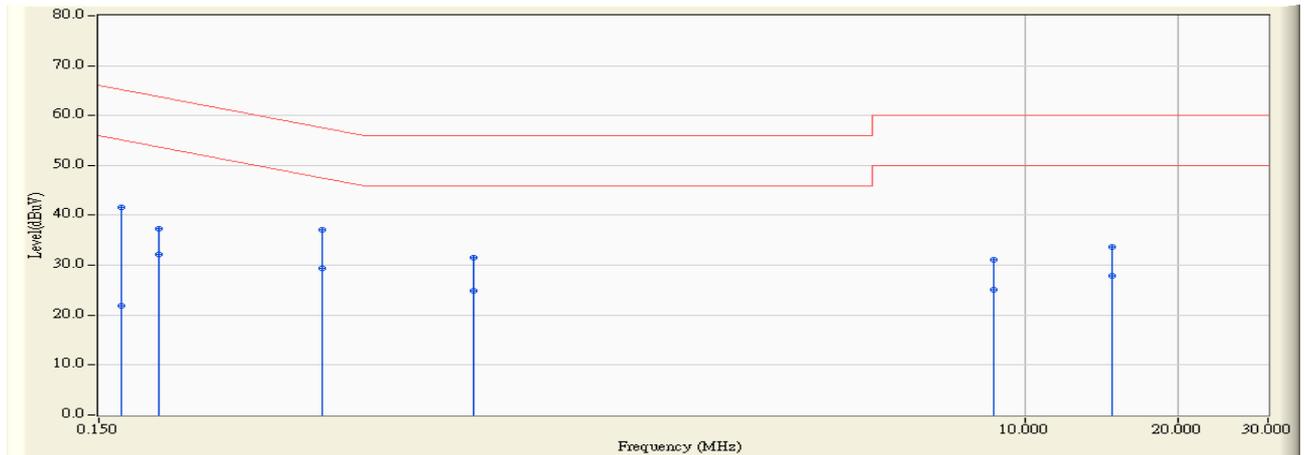


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.177	9.752	23.390	33.142	-31.467	64.609	QUASPEAK
2	0.177	9.752	2.490	12.242	-42.367	54.609	AVERAGE
3	0.240	9.746	22.030	31.776	-30.326	62.102	QUASPEAK
4	0.240	9.746	11.570	21.316	-30.786	52.102	AVERAGE
5	0.463	9.729	27.240	36.969	-19.679	56.648	QUASPEAK
6	*	9.729	22.120	31.849	-14.799	46.648	AVERAGE
7	1.513	9.841	19.750	29.591	-26.409	56.000	QUASPEAK
8	1.513	9.841	13.980	23.821	-22.179	46.000	AVERAGE
9	4.361	9.921	20.970	30.891	-25.109	56.000	QUASPEAK
10	4.361	9.921	15.550	25.471	-20.529	46.000	AVERAGE
11	14.154	10.205	22.050	32.255	-27.745	60.000	QUASPEAK
12	14.154	10.205	17.080	27.285	-22.715	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 : 2017/05/02
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H_LISN(16A)-6_0712 - Line2	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 2: TX MIMO_ ADP: AD890326 802.11ac(80M)_5775MHz

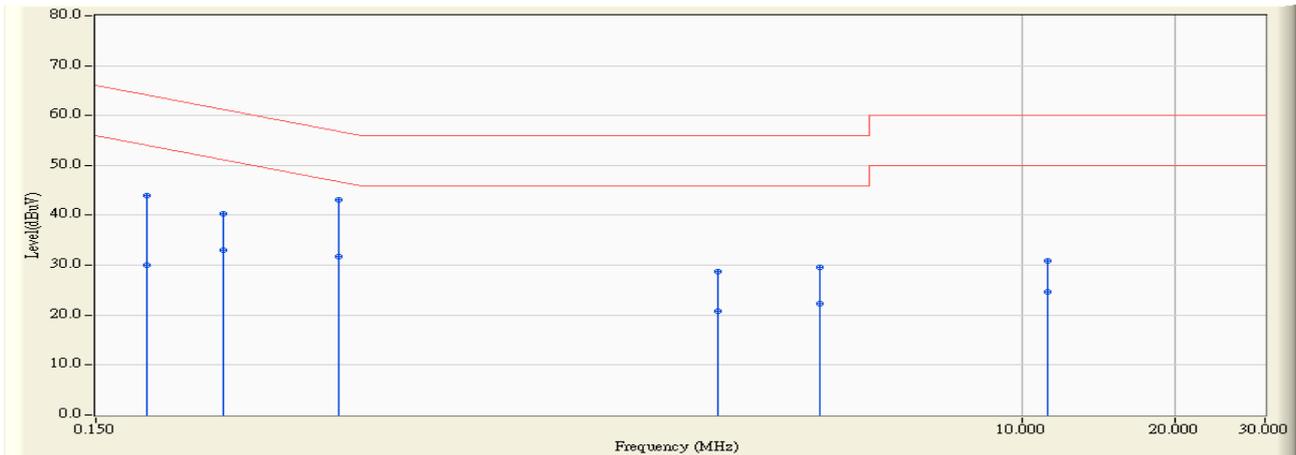


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.166	9.753	31.790	41.543	-23.634	65.177	QUASPEAK
2	0.166	9.753	12.110	21.863	-33.314	55.177	AVERAGE
3	0.197	9.751	27.580	37.331	-26.411	63.741	QUASPEAK
4	0.197	9.751	22.330	32.081	-21.661	53.741	AVERAGE
5	0.412	9.749	27.310	37.059	-20.554	57.614	QUASPEAK
6	*	9.749	19.530	29.279	-18.334	47.614	AVERAGE
7	0.822	9.793	21.650	31.443	-24.557	56.000	QUASPEAK
8	0.822	9.793	15.150	24.943	-21.057	46.000	AVERAGE
9	8.654	10.071	21.060	31.131	-28.869	60.000	QUASPEAK
10	8.654	10.071	15.120	25.191	-24.809	50.000	AVERAGE
11	14.783	10.303	23.430	33.733	-26.267	60.000	QUASPEAK
12	14.783	10.303	17.590	27.893	-22.107	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 : 2017/04/26
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H_LISN(16A)-6_0712 - Line1	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 4: TX_ADP: ADP-33AW B 802.11ac(80M)_5210MHz

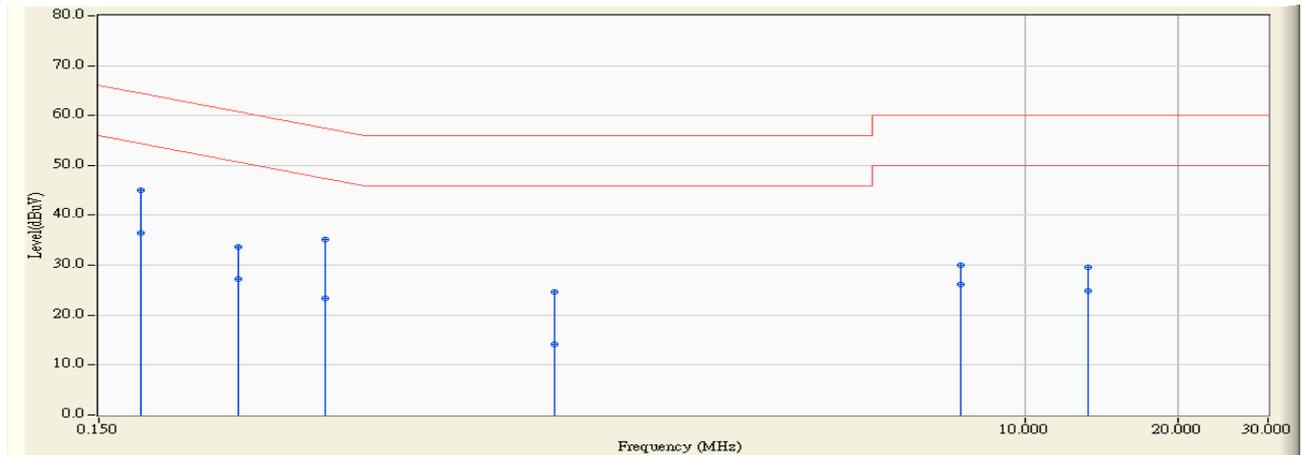


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.189	9.751	34.130	43.881	-20.197	64.078	QUASPEAK
2	0.189	9.751	20.370	30.121	-23.957	54.078	AVERAGE
3	0.267	9.743	30.640	40.383	-20.822	61.205	QUASPEAK
4	0.267	9.743	23.230	32.973	-18.232	51.205	AVERAGE
5	*	9.729	33.280	43.009	-13.852	56.861	QUASPEAK
6	0.451	9.729	22.050	31.779	-15.082	46.861	AVERAGE
7	2.513	9.875	18.960	28.835	-27.165	56.000	QUASPEAK
8	2.513	9.875	10.900	20.775	-25.225	46.000	AVERAGE
9	4.002	9.920	19.630	29.550	-26.450	56.000	QUASPEAK
10	4.002	9.920	12.400	22.320	-23.680	46.000	AVERAGE
11	11.181	10.152	20.710	30.861	-29.139	60.000	QUASPEAK
12	11.181	10.152	14.530	24.681	-25.319	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 : 2017/04/26
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H_LISN(16A)-6_0712 - Line2	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 4: TX_ADP: ADP-33AW B 802.11ac(80M)_5210MHz

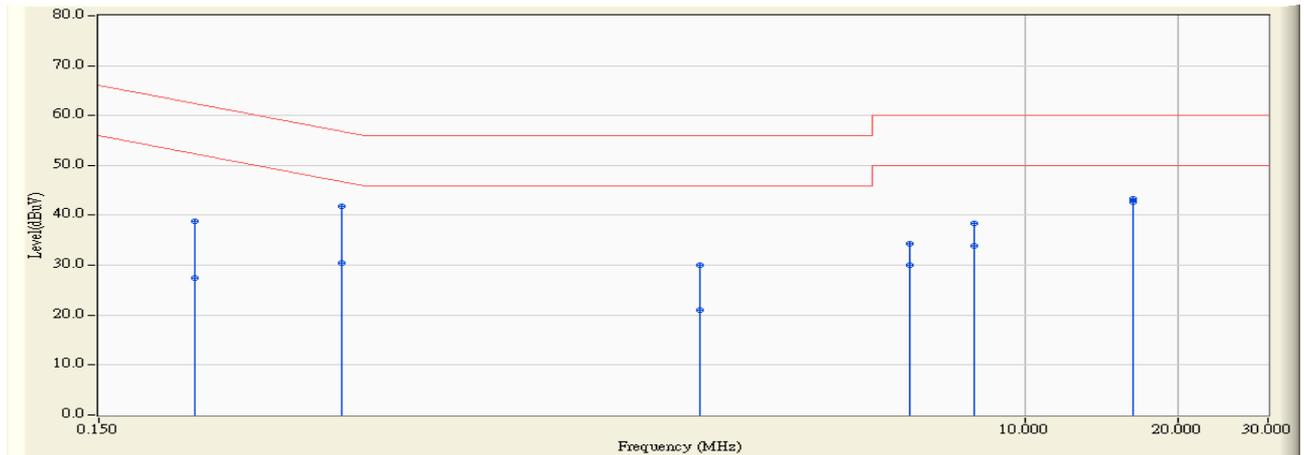


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.181	9.752	35.190	44.942	-19.486	64.428	QUASPEAK
2	* 0.181	9.752	26.800	36.552	-17.876	54.428	AVERAGE
3	0.283	9.750	24.010	33.760	-26.973	60.733	QUASPEAK
4	0.283	9.750	17.570	27.320	-23.413	50.733	AVERAGE
5	0.420	9.749	25.340	35.089	-22.368	57.457	QUASPEAK
6	0.420	9.749	13.720	23.469	-23.988	47.457	AVERAGE
7	1.181	9.825	14.760	24.585	-31.415	56.000	QUASPEAK
8	1.181	9.825	4.400	14.225	-31.775	46.000	AVERAGE
9	7.455	10.001	20.040	30.042	-29.958	60.000	QUASPEAK
10	7.455	10.001	16.250	26.252	-23.748	50.000	AVERAGE
11	13.291	10.255	19.350	29.605	-30.395	60.000	QUASPEAK
12	13.291	10.255	14.660	24.915	-25.085	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 : 2017/04/27
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H_LISN(16A)-6_0712 - Line1	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 4: TX_ADP: ADP-33AW B 802.11ac(80M)_5775MHz

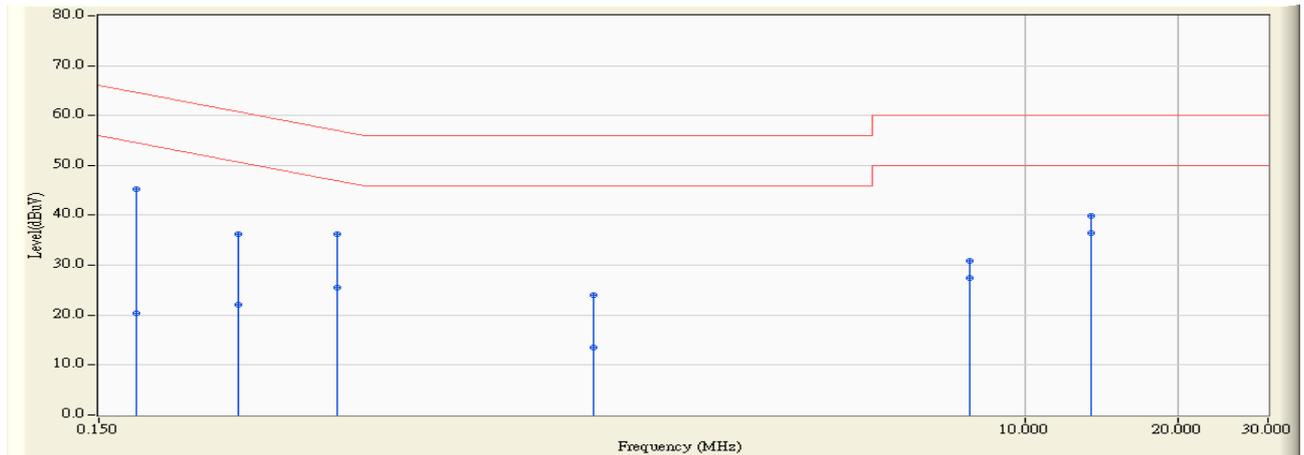


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.232	9.747	28.980	38.727	-23.650	62.377	QUASPEAK
2		0.232	9.747	17.680	27.427	-24.950	52.377	AVERAGE
3		0.451	9.729	32.130	41.859	-15.002	56.861	QUASPEAK
4		0.451	9.729	20.780	30.509	-16.352	46.861	AVERAGE
5		2.279	9.868	20.060	29.928	-26.072	56.000	QUASPEAK
6		2.279	9.868	11.090	20.958	-25.042	46.000	AVERAGE
7		5.908	9.959	24.390	34.349	-25.651	60.000	QUASPEAK
8		5.908	9.959	20.080	30.039	-19.961	50.000	AVERAGE
9		7.923	10.043	28.260	38.303	-21.697	60.000	QUASPEAK
10		7.923	10.043	23.810	33.853	-16.147	50.000	AVERAGE
11		16.228	10.250	33.150	43.399	-16.601	60.000	QUASPEAK
12	*	16.228	10.250	32.390	42.639	-7.361	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 : 2017/04/27
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H_LISN(16A)-6_0712 - Line2	Power : AC 120V/60Hz
EUT : Wireless-AC2600 Dual Band Gigabit Router	Note : Mode 4: TX_AD P: ADP-33AW B
	802.11ac(80M)_5775MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.177	9.752	35.600	45.352	-19.257	64.609	QUASPEAK
2		0.177	9.752	10.690	20.442	-34.167	54.609	AVERAGE
3		0.283	9.750	26.410	36.160	-24.573	60.733	QUASPEAK
4		0.283	9.750	12.360	22.110	-28.623	50.733	AVERAGE
5		0.443	9.748	26.560	36.308	-20.698	57.006	QUASPEAK
6		0.443	9.748	15.800	25.548	-21.458	47.006	AVERAGE
7		1.412	9.832	14.210	24.042	-31.958	56.000	QUASPEAK
8		1.412	9.832	3.670	13.502	-32.498	46.000	AVERAGE
9		7.744	10.019	20.920	30.938	-29.062	60.000	QUASPEAK
10		7.744	10.019	17.390	27.408	-22.592	50.000	AVERAGE
11		13.420	10.259	29.660	39.919	-20.081	60.000	QUASPEAK
12	*	13.420	10.259	26.210	36.469	-13.531	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. 99% & 20dB & DTS Bandwidth

3.1. Test Equipment

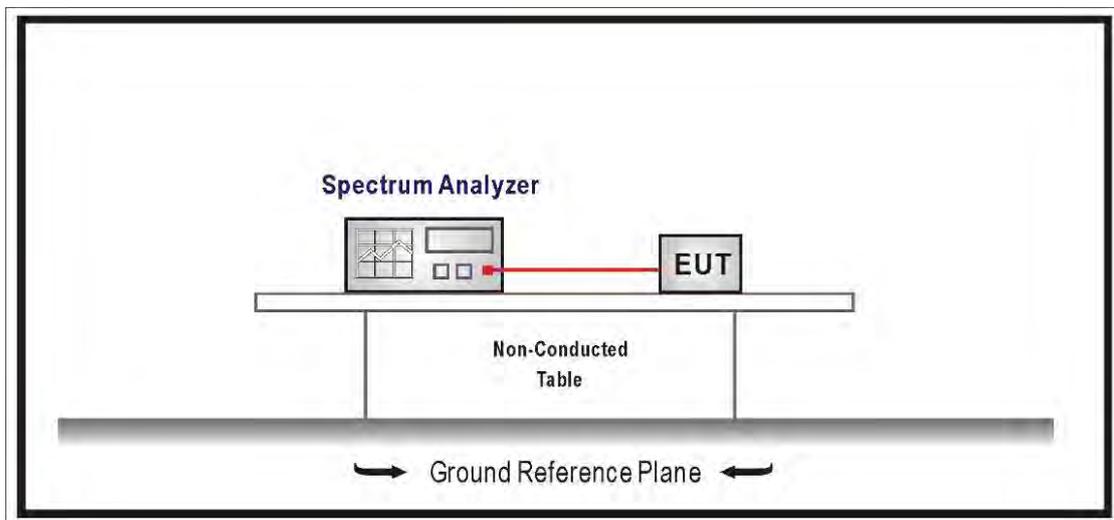
The following test equipment are used during the radiated emission tests:

99%& 26dB & DTS Bandwidth / SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2018/03/12

Note: All equipment that need to calibrate are with calibration period of 1 year.

3.2. Test Setup



3.3. Limits

99% & 26dB Bandwidth : No Required

6dB Bandwidth \geq 500KHz

3.4. Test Procedure

99% & 26dB Bandwidth :

The EUT was tested according to U-NII test procedure of KDB 789033.D02 V01r03

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

DTS Bandwidth :

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

3.5. Uncertainty

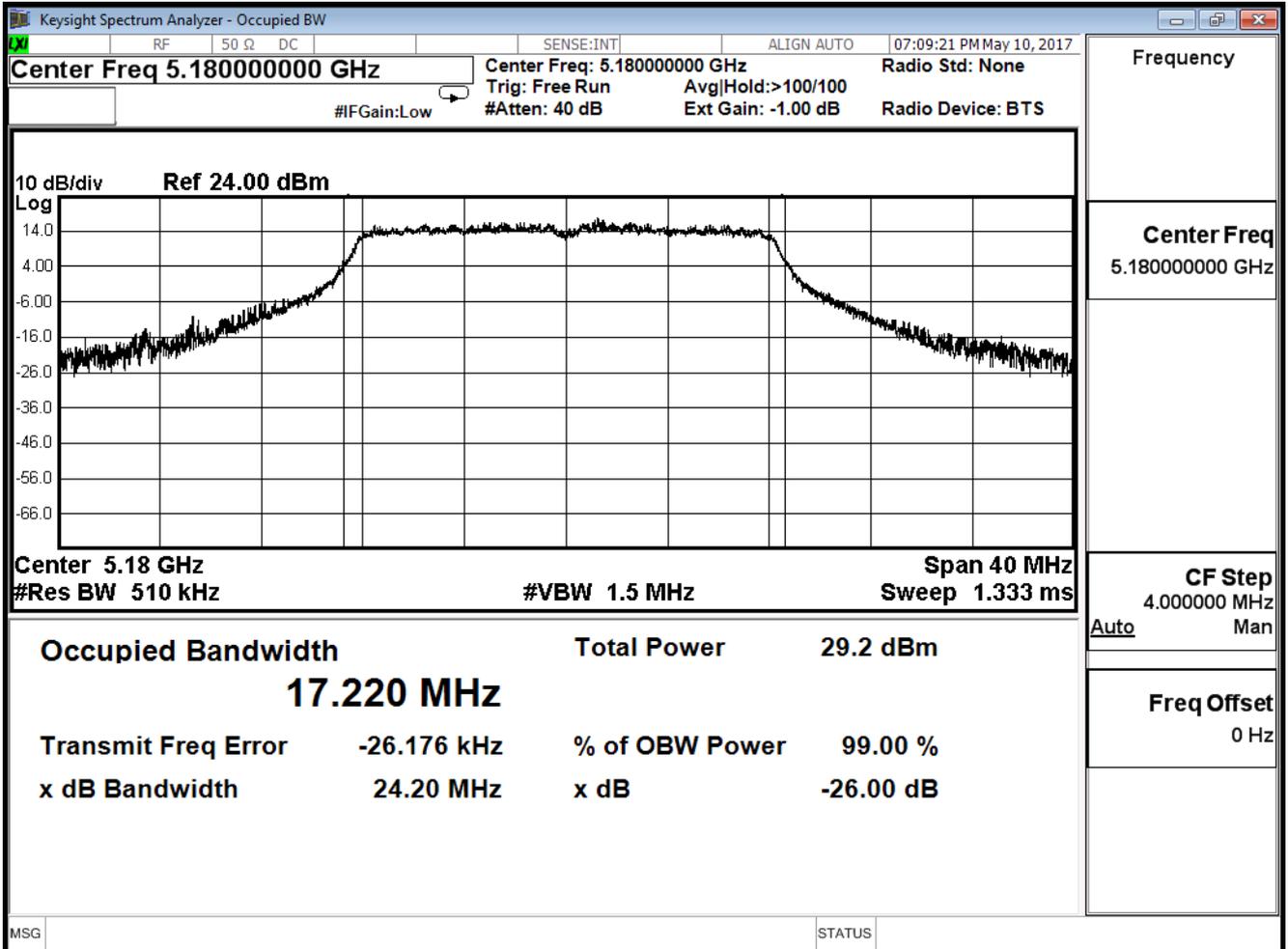
The measurement uncertainty is defined as ± 150 Hz

3.6. Test Result

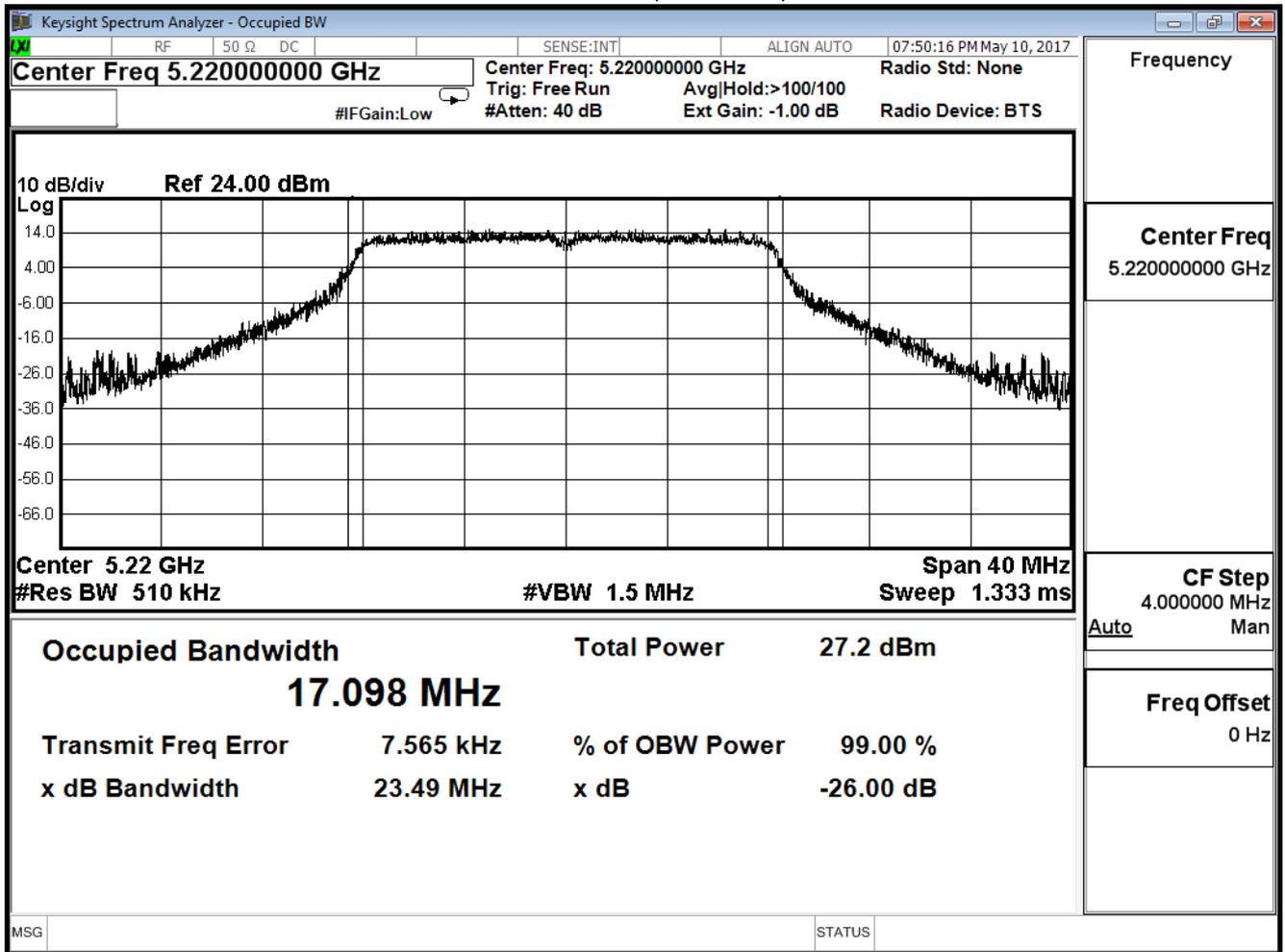
Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: TX CDD_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

IEEE 802.11a (ANT0)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
36	5180	24.20	17.220	--
44	5220	23.49	17.098	--
48	5240	23.73	17.209	--

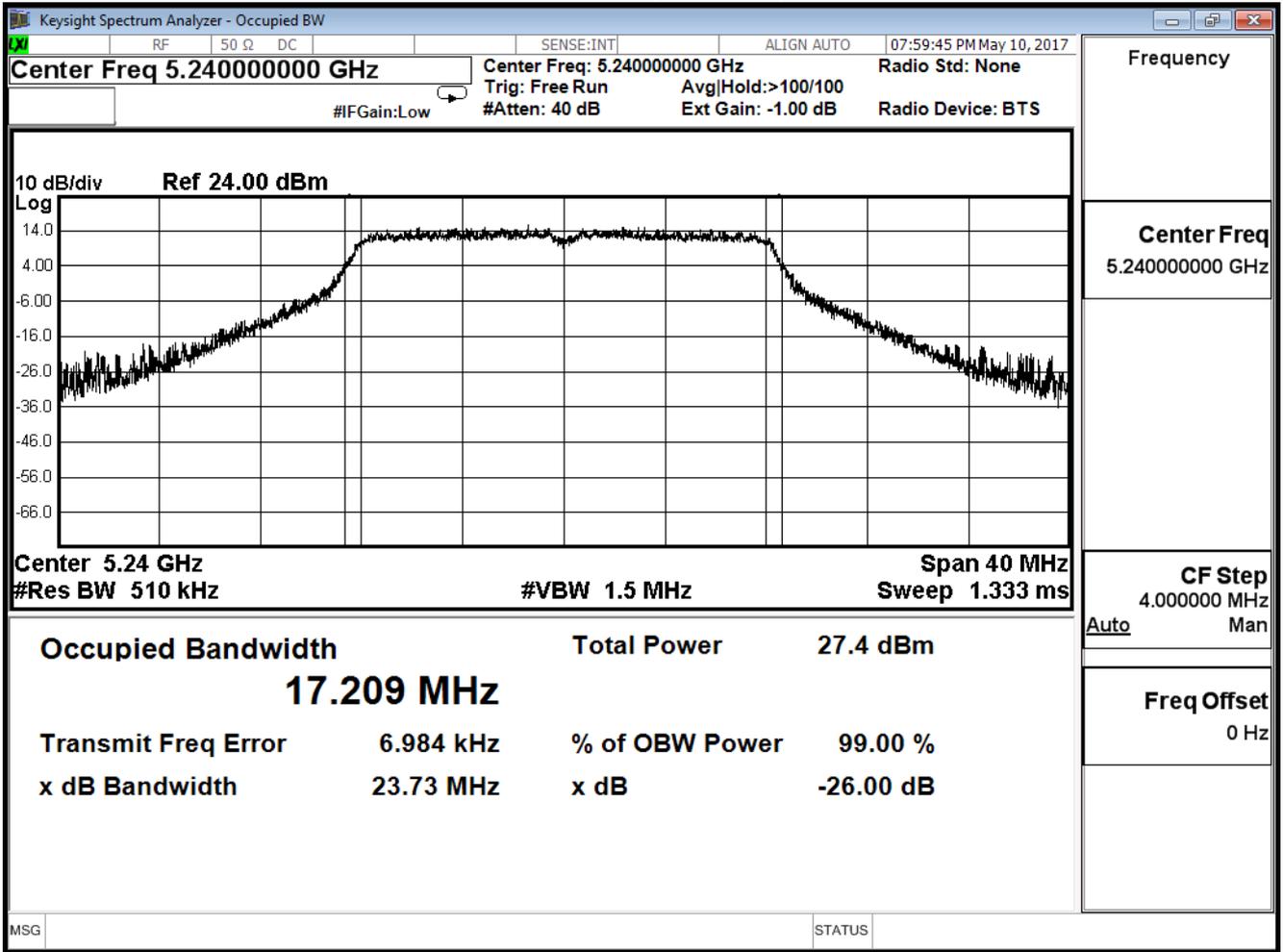
Channel 36 (5180MHz)



Channel 44 (5220MHz)



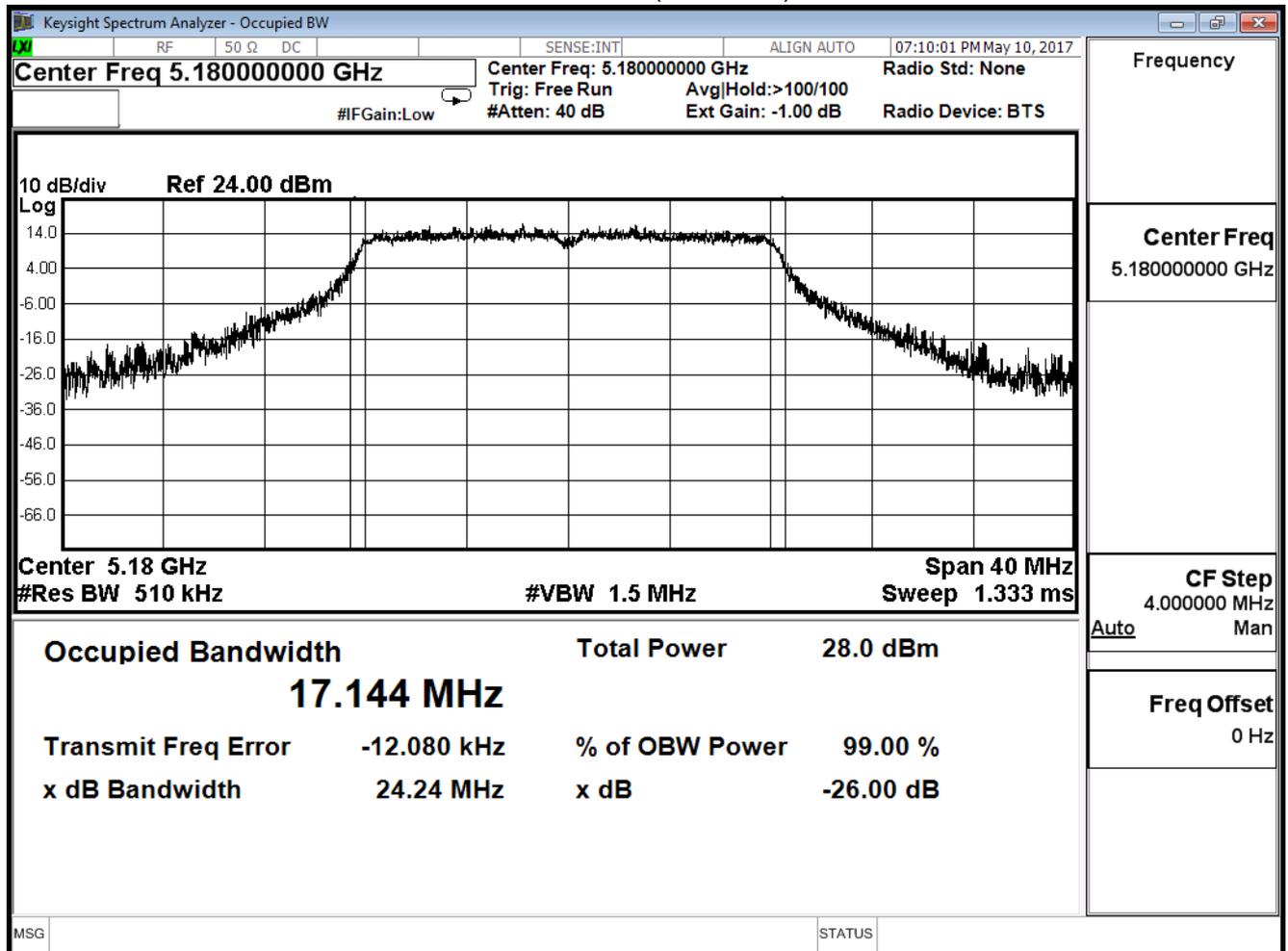
Channel 48 (5240MHz)



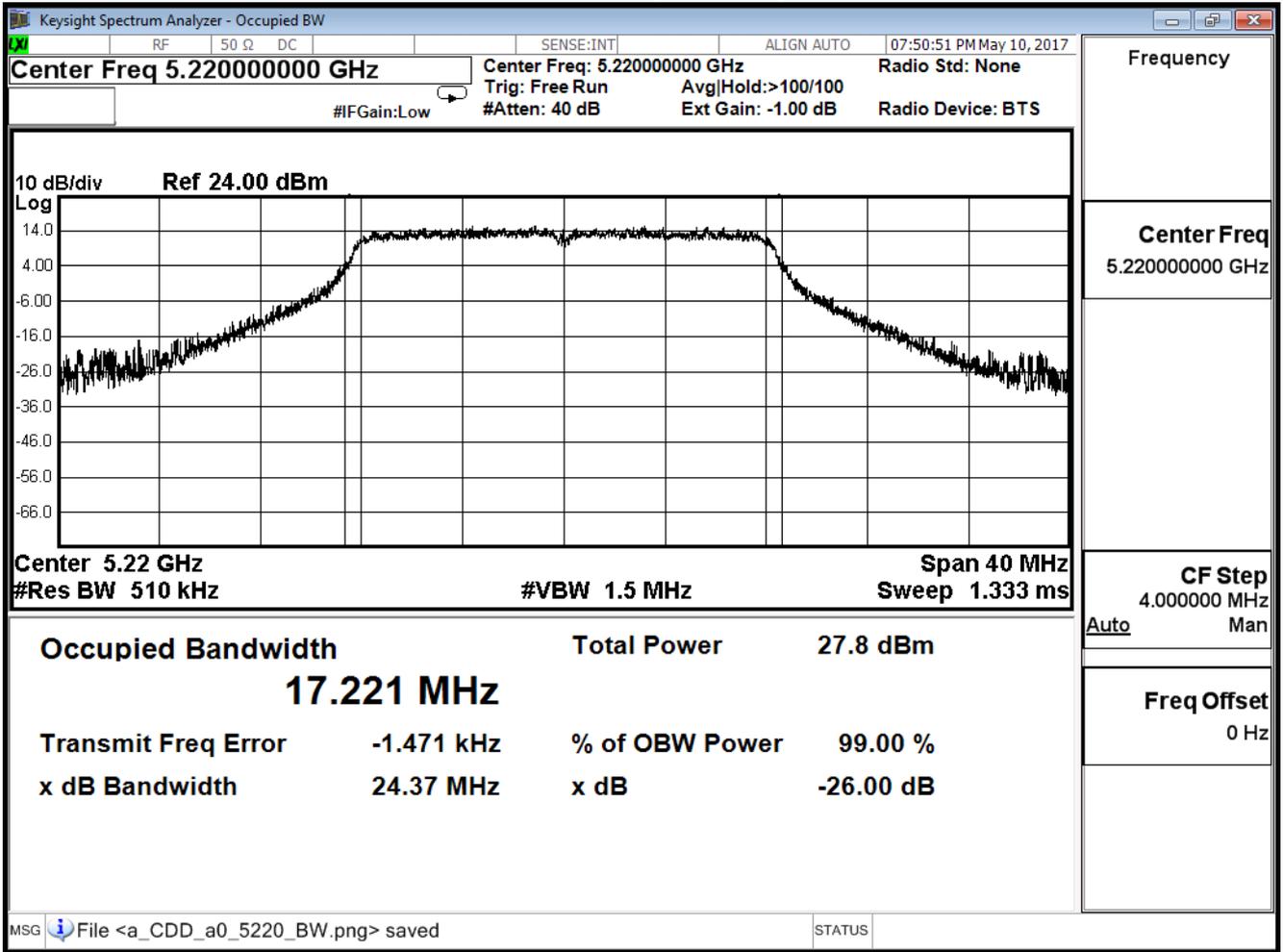
Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: TX CDD_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

IEEE 802.11a (ANT1)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
36	5180	24.24	17.144	--
44	5220	24.37	17.221	--
48	5240	24.06	17.212	--

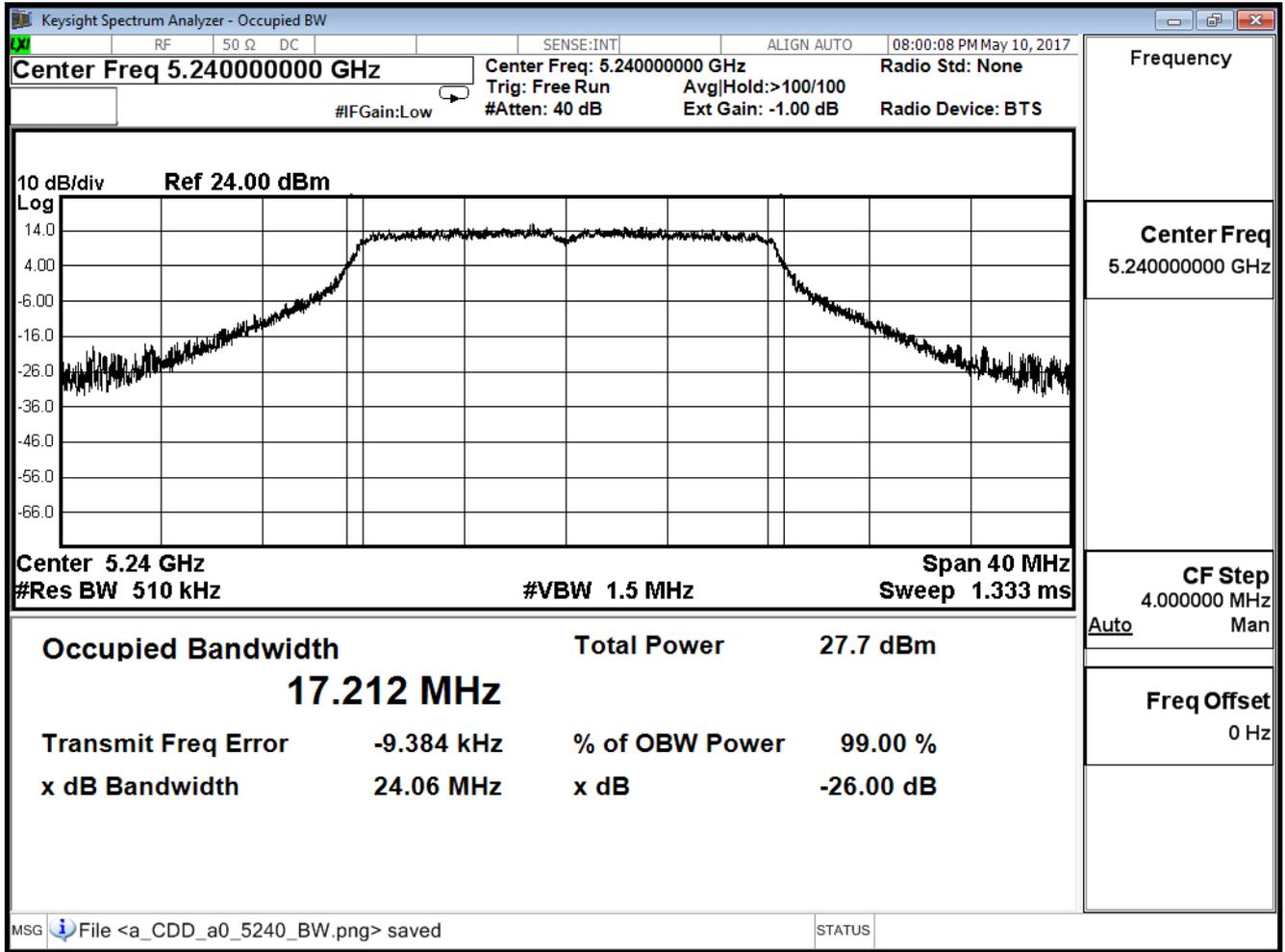
Channel 36 (5180MHz)



Channel 44 (5220MHz)



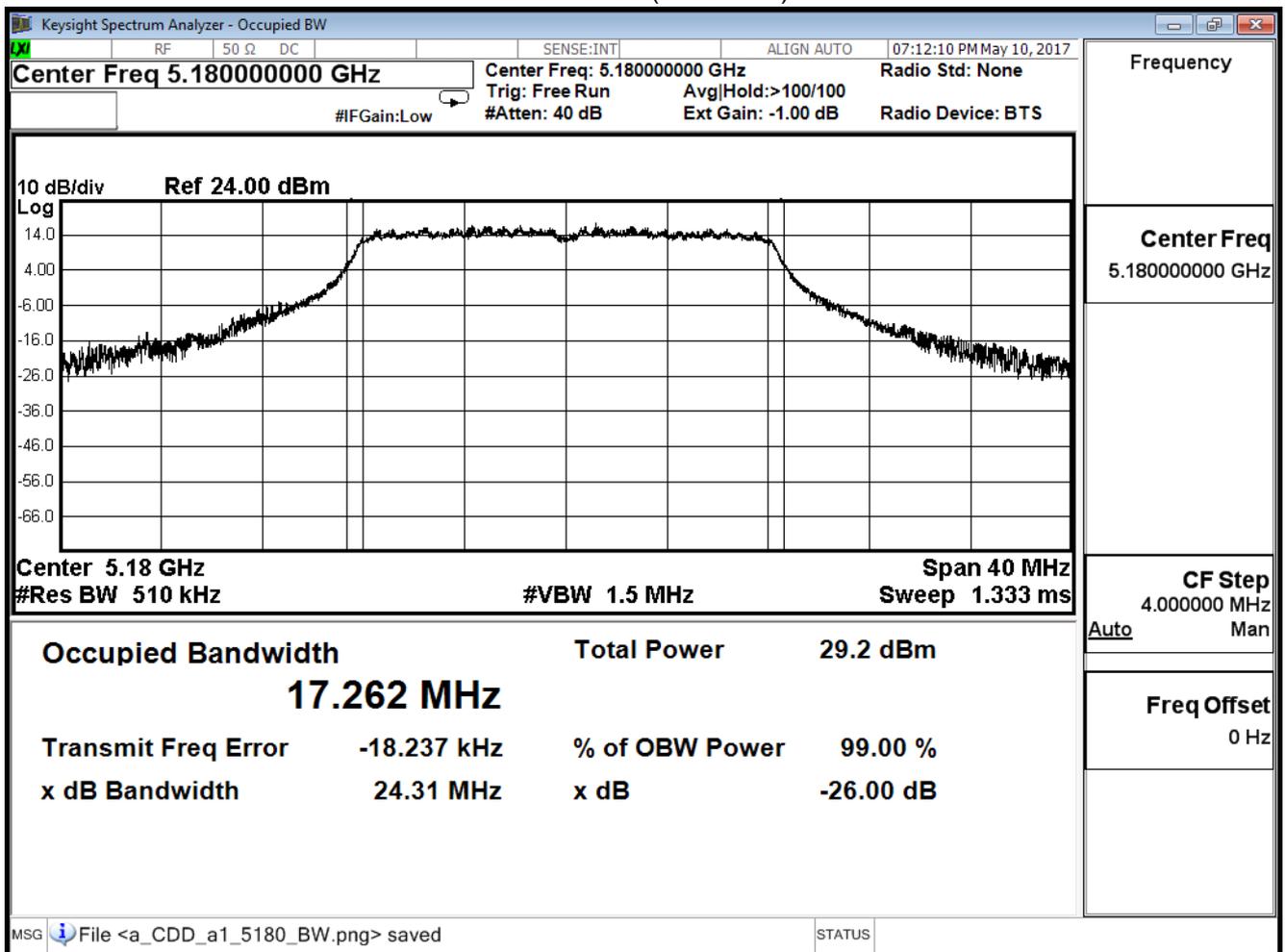
Channel 48 (5240MHz)



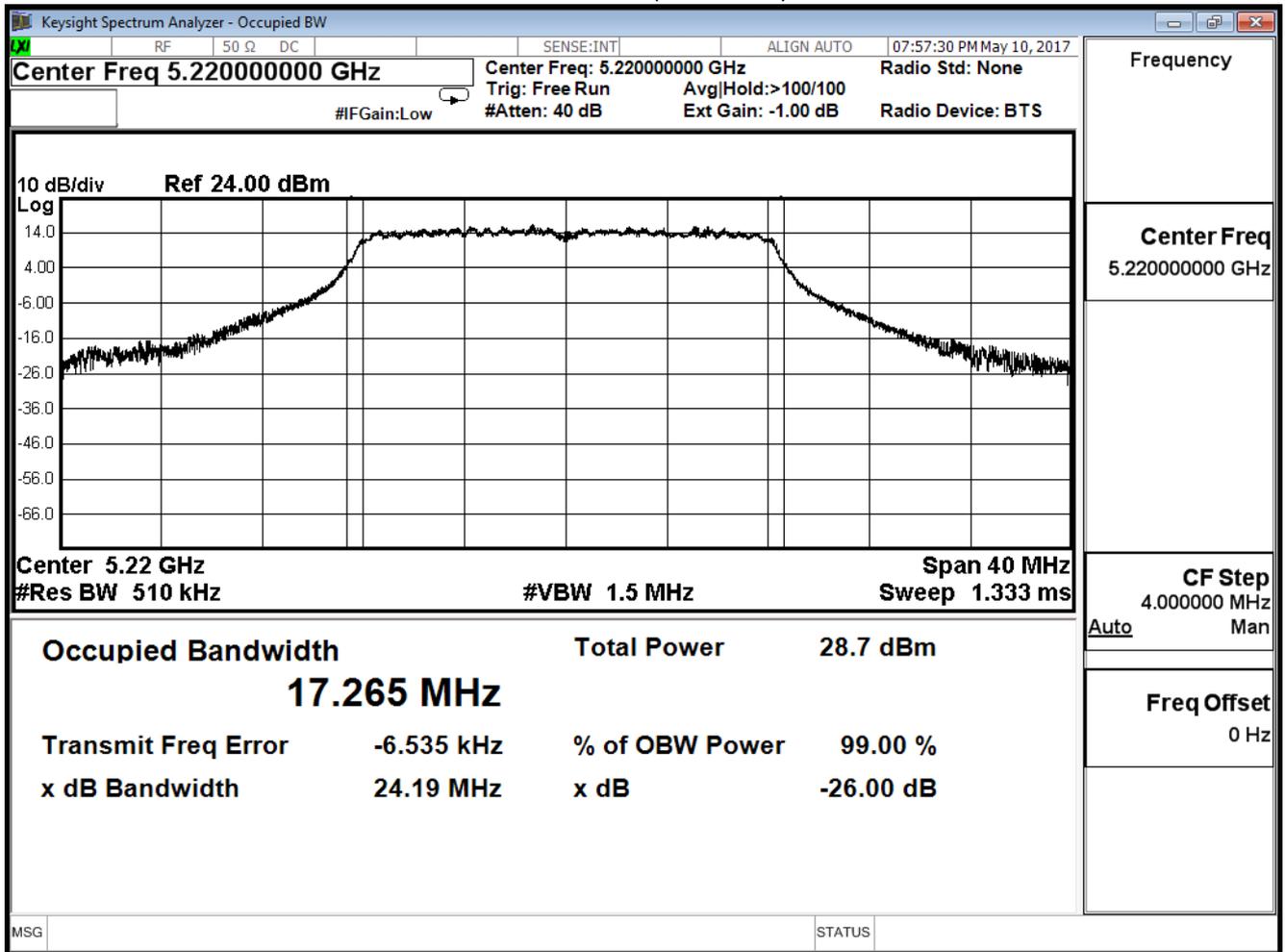
Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: TX CDD_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

IEEE 802.11a (ANT2)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
36	5180	24.31	17.262	--
44	5220	24.19	17.265	--
48	5240	24.14	17.229	--

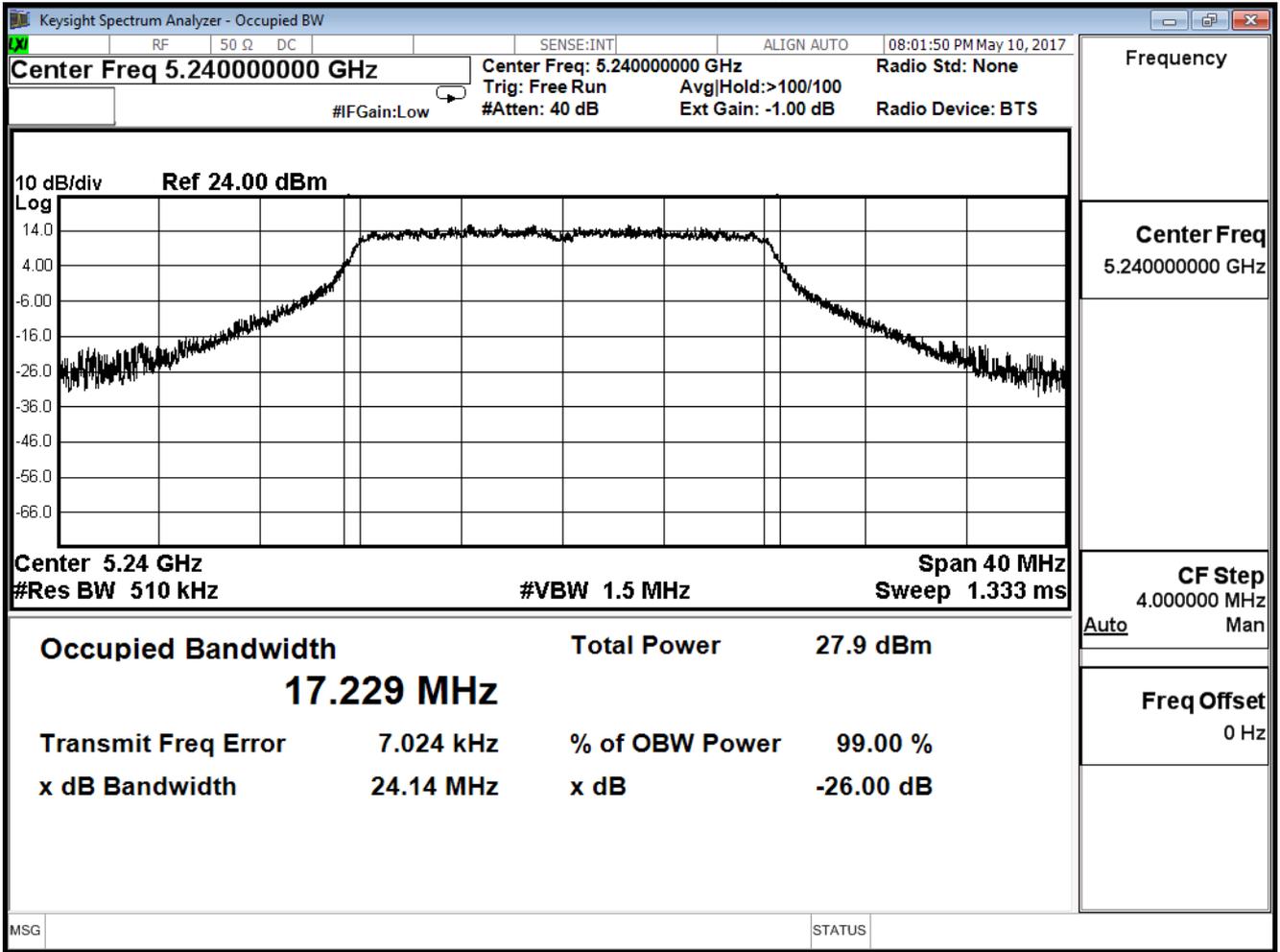
Channel 36 (5180MHz)



Channel 44 (5220MHz)



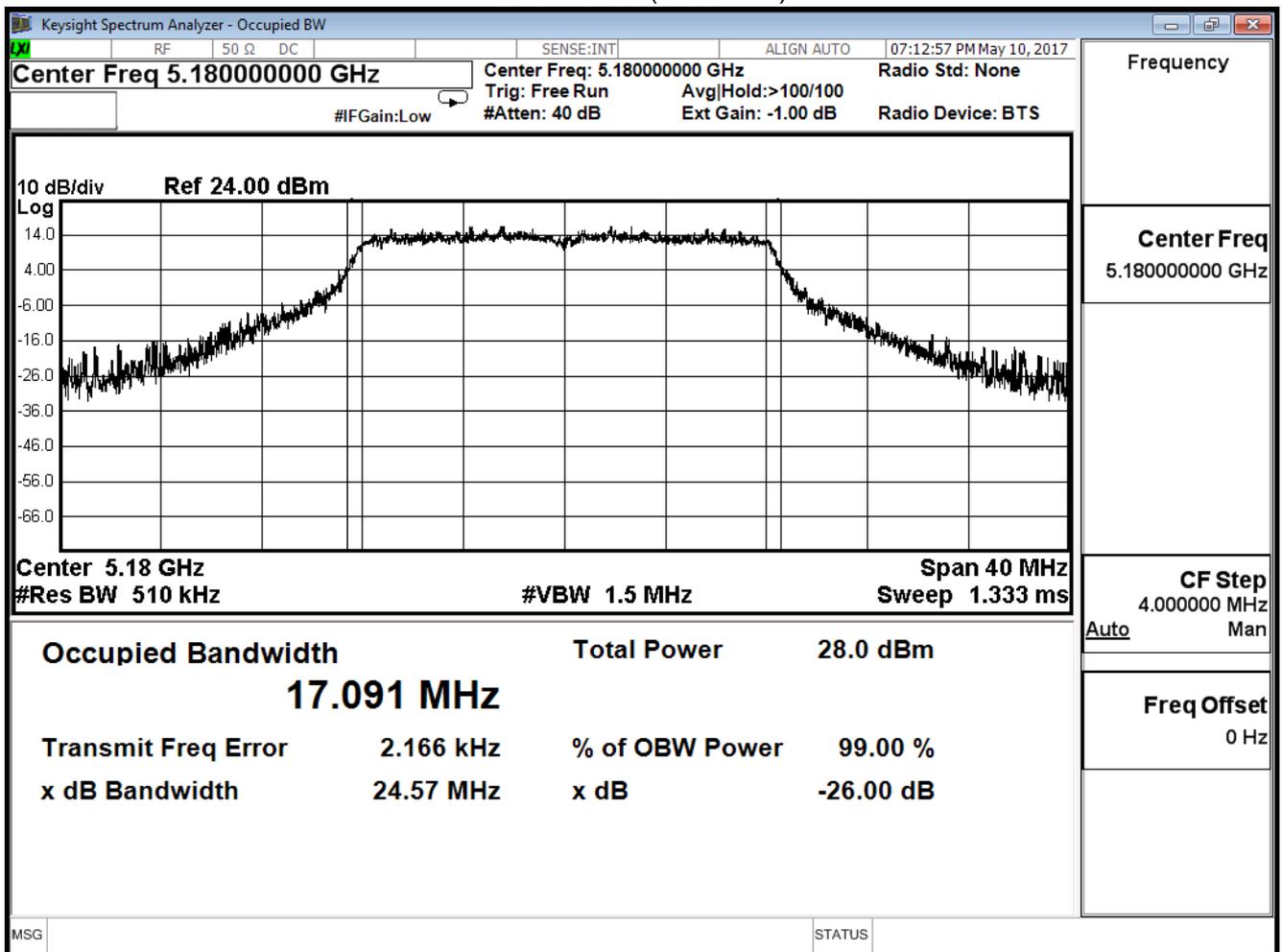
Channel 48 (5240MHz)



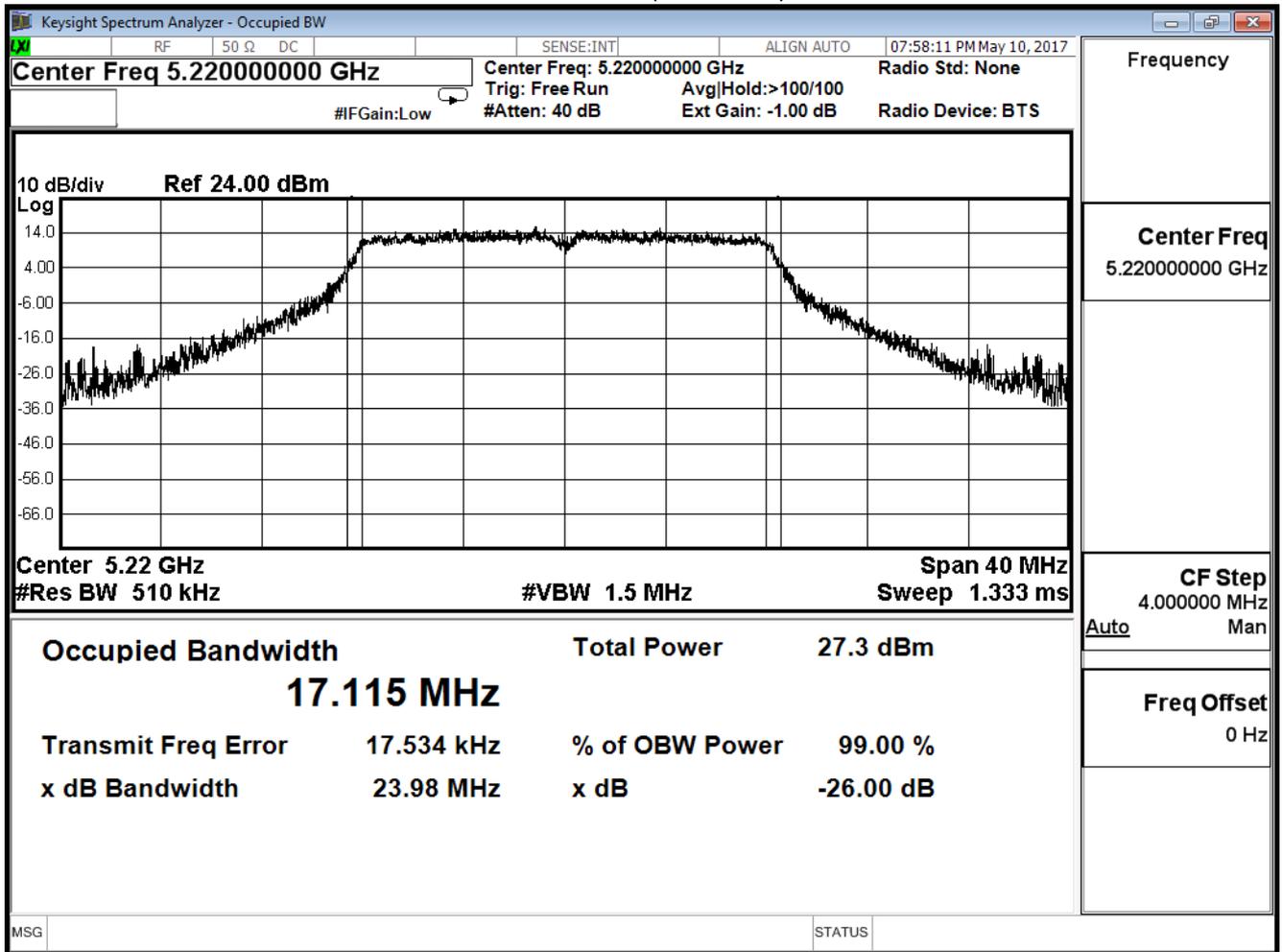
Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: TX CDD_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

IEEE 802.11a (ANT3)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
36	5180	24.57	17.091	--
44	5220	23.98	17.115	--
48	5240	23.73	17.120	--

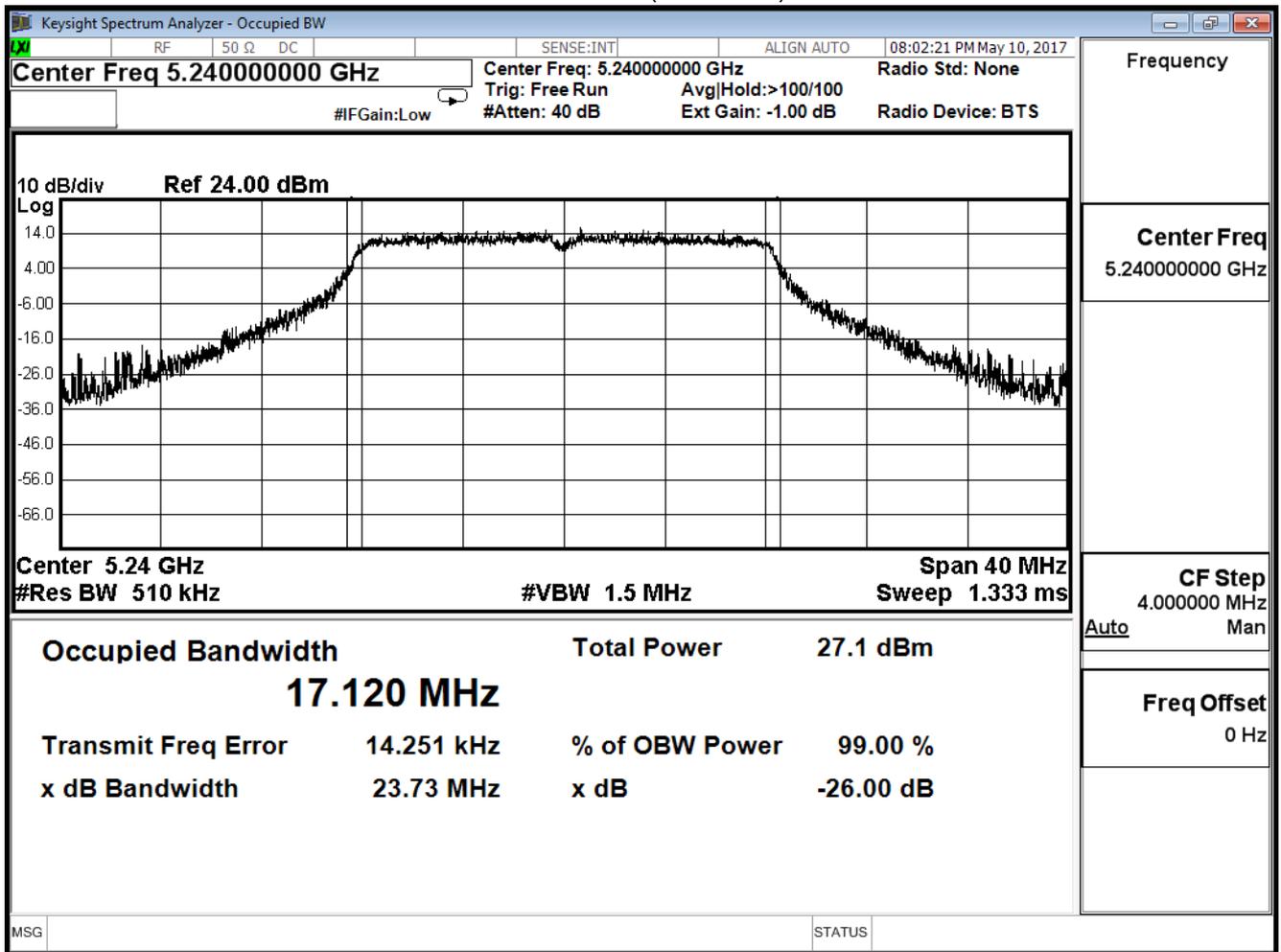
Channel 36 (5180MHz)



Channel 44 (5220MHz)



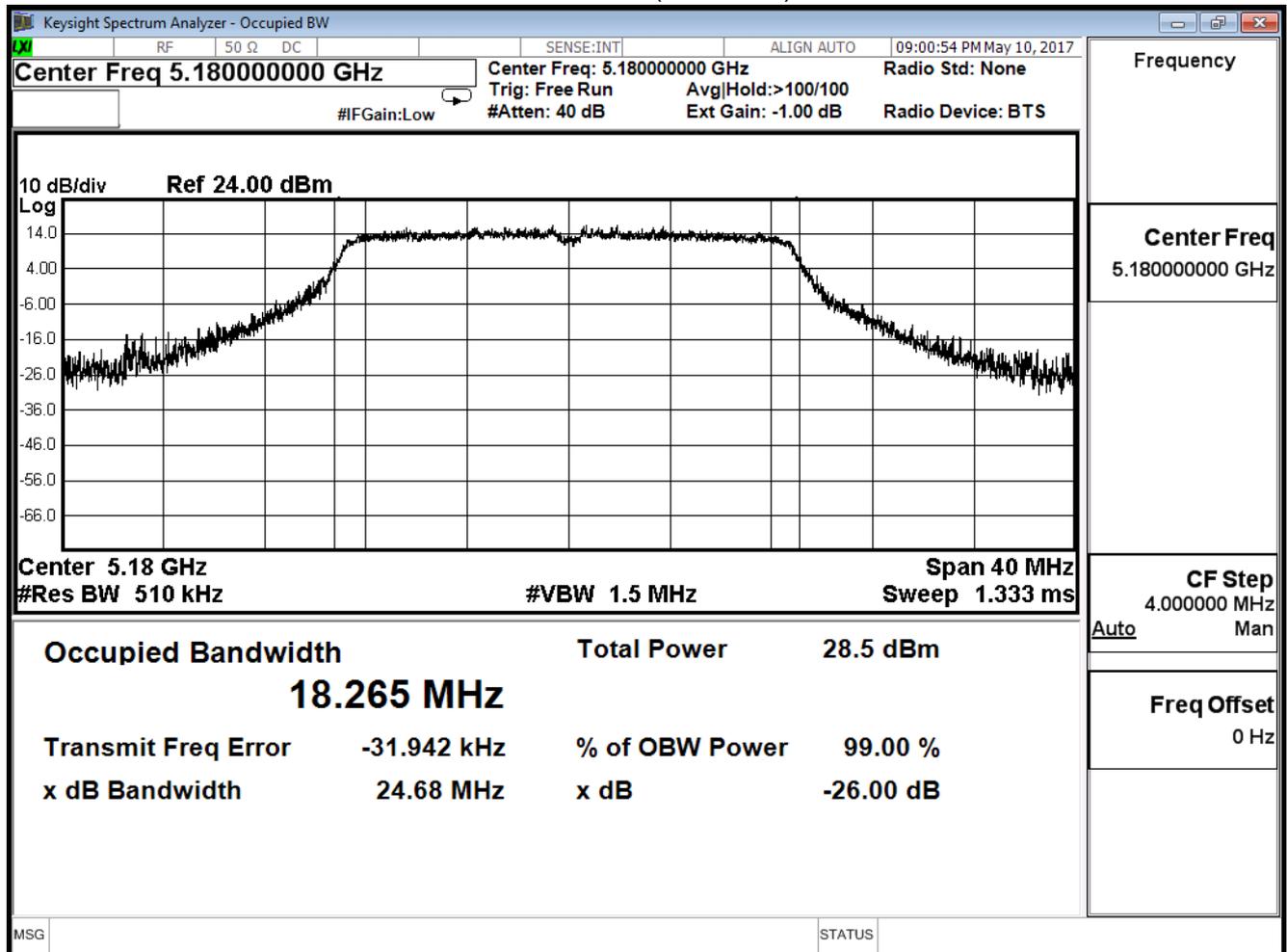
Channel 48 (5240MHz)



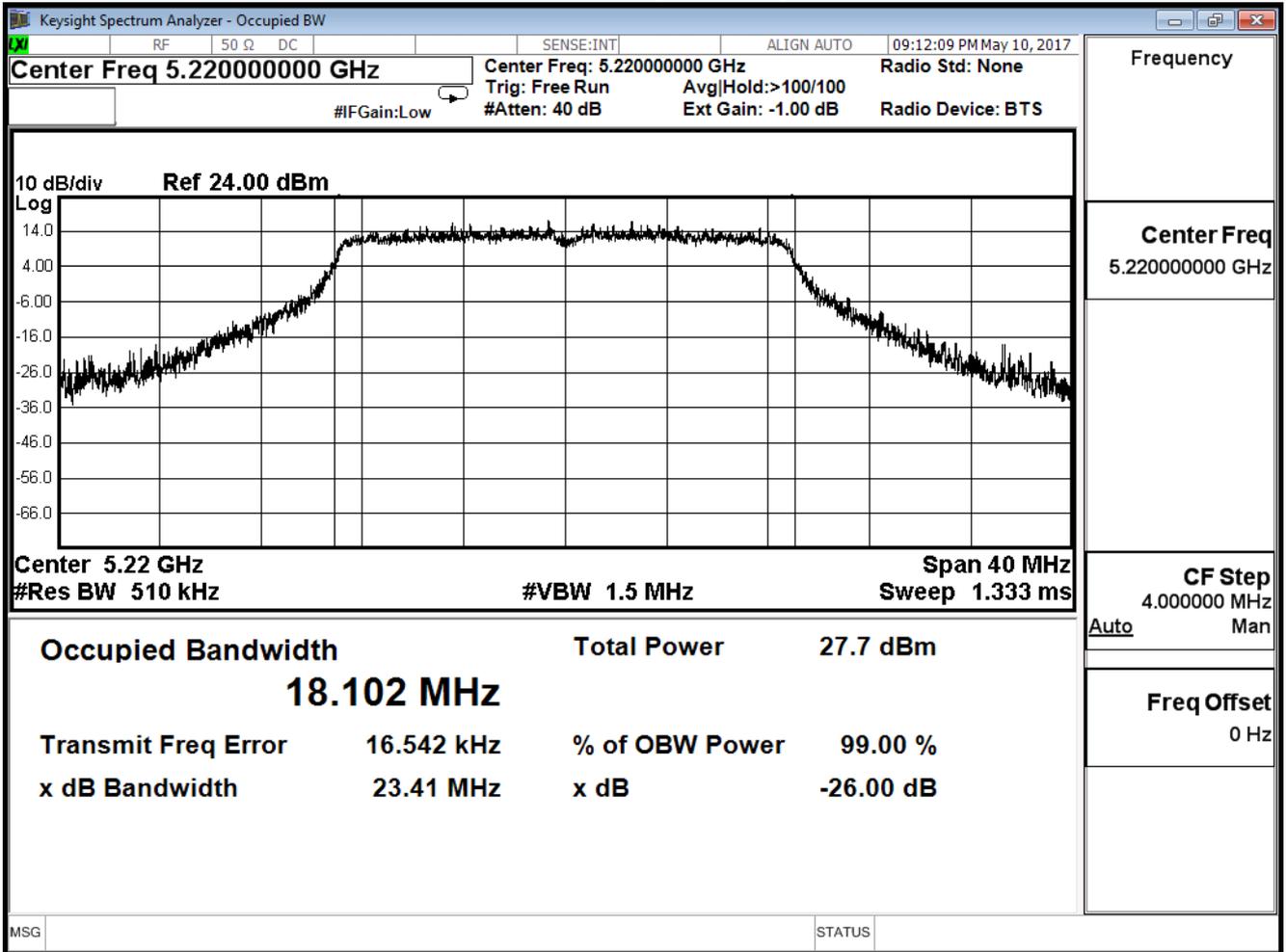
Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

IEEE 802.11n(20MHz) (ANT0)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
36	5180	24.68	18.265	--
44	5220	23.41	18.102	--
48	5240	23.64	18.123	--

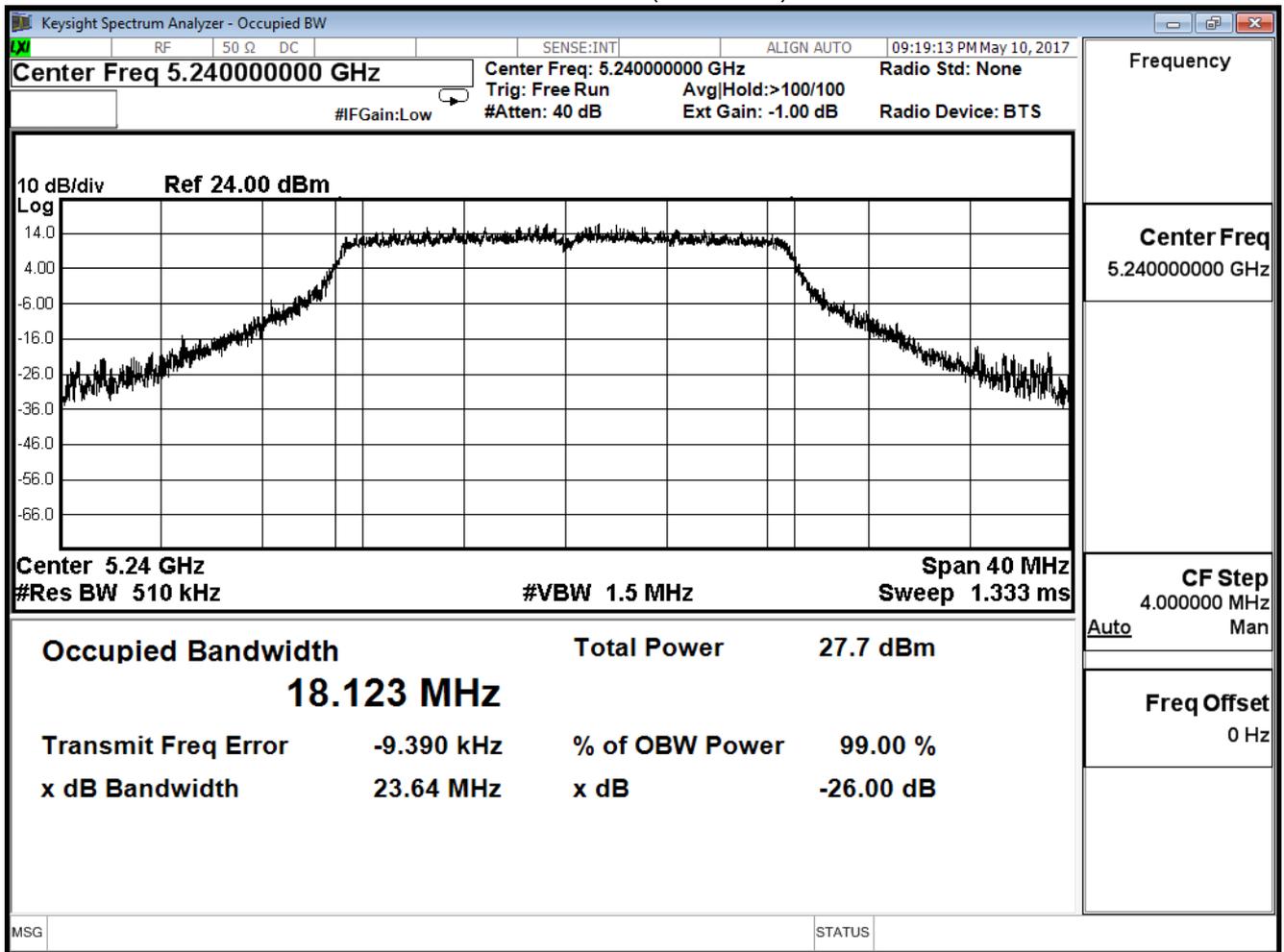
Channel 36 (5180MHz)



Channel 44 (5220MHz)



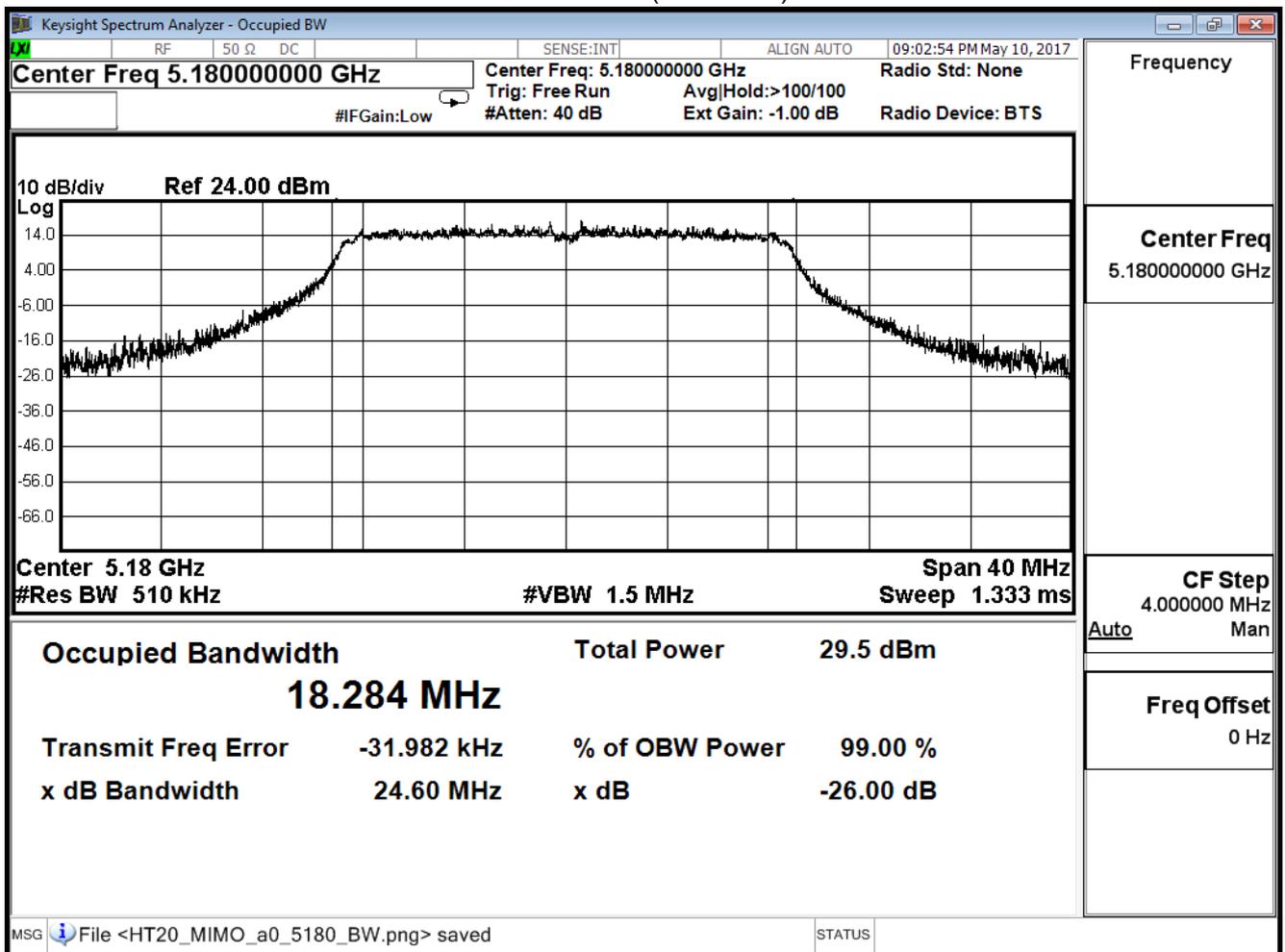
Channel 48 (5240MHz)



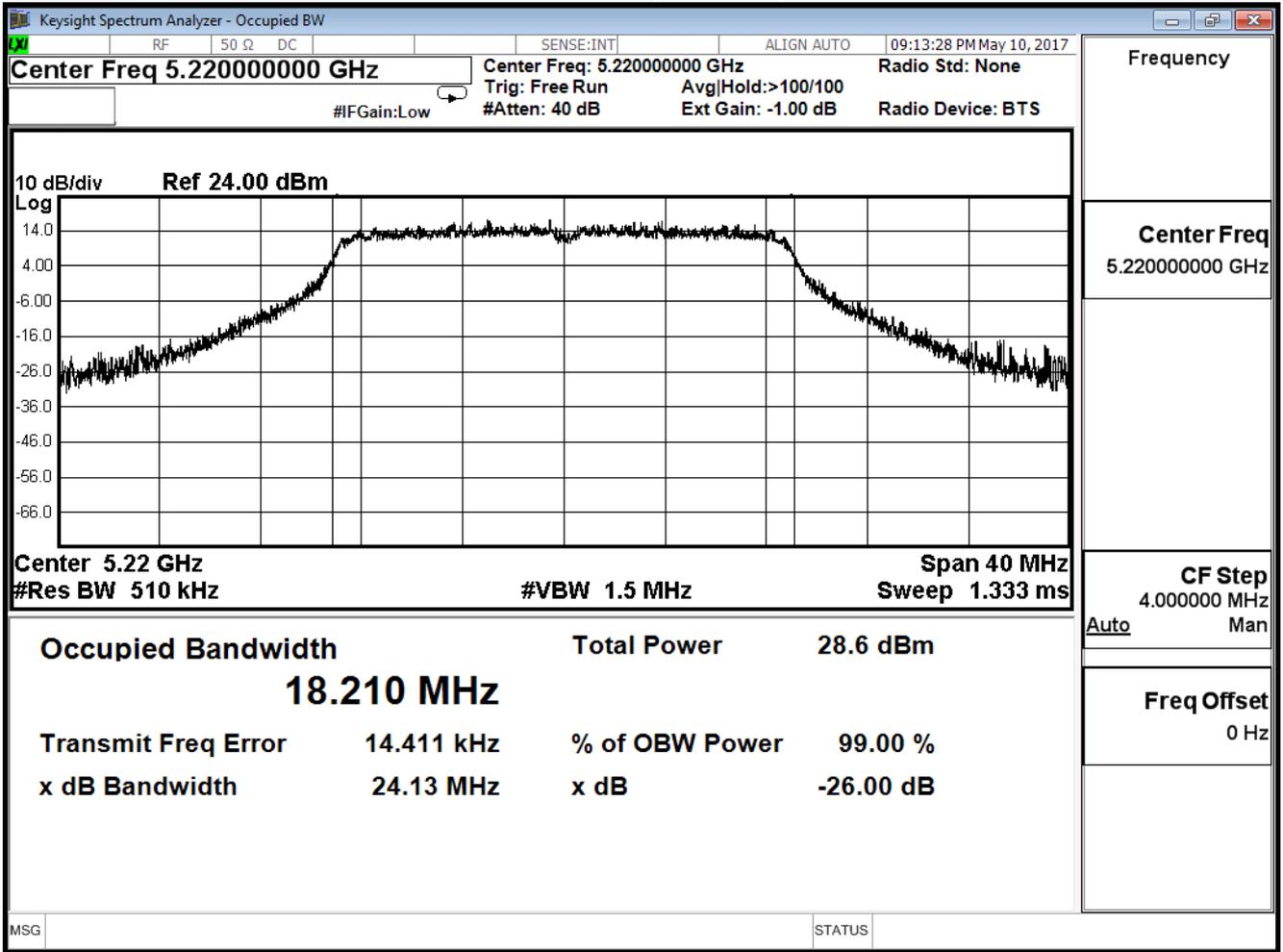
Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

IEEE 802.11n(20MHz) (ANT1)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
36	5180	24.60	18.284	--
44	5220	24.13	18.210	--
48	5240	24.05	18.159	--

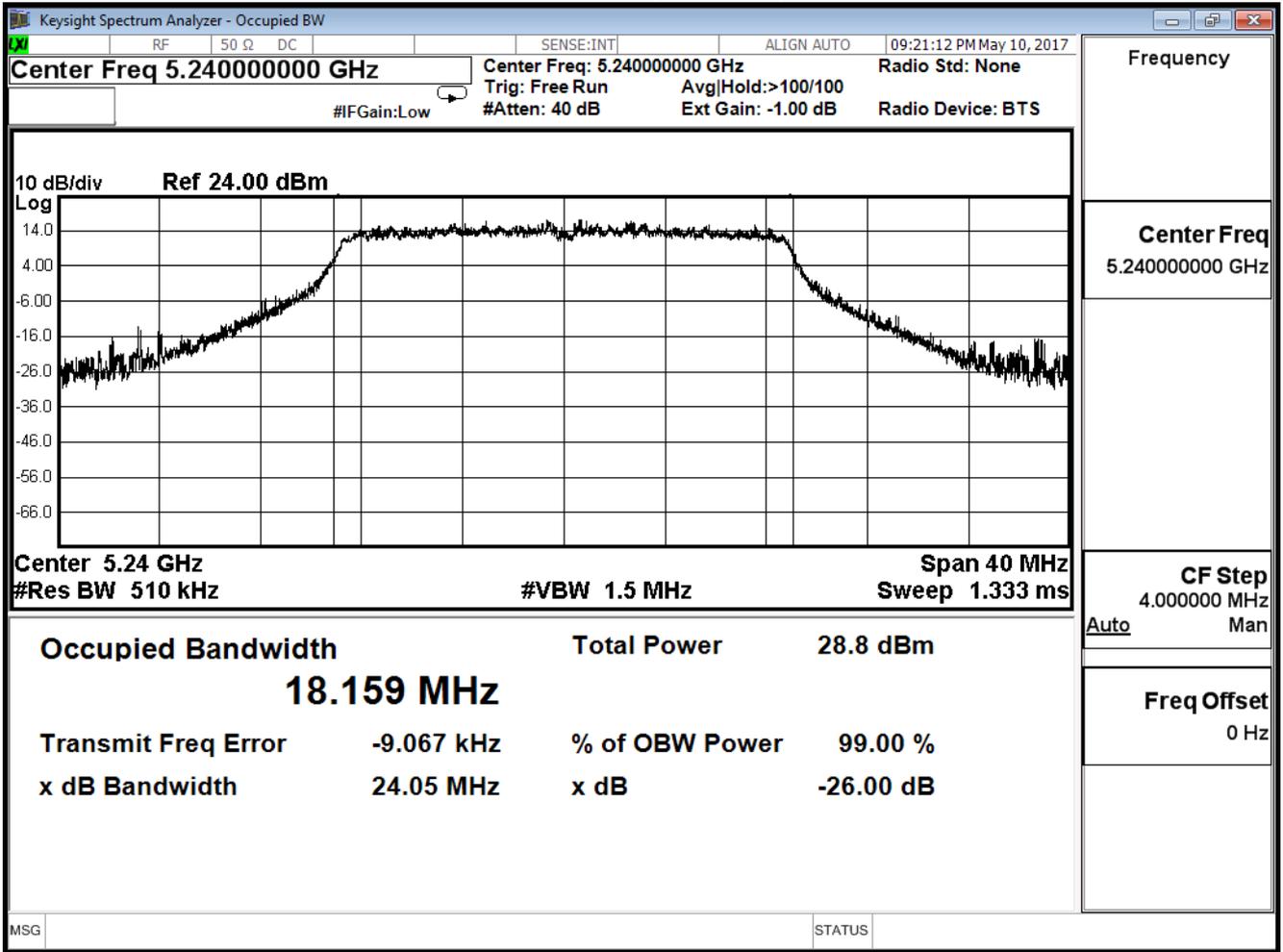
Channel 36 (5180MHz)



Channel 44 (5220MHz)



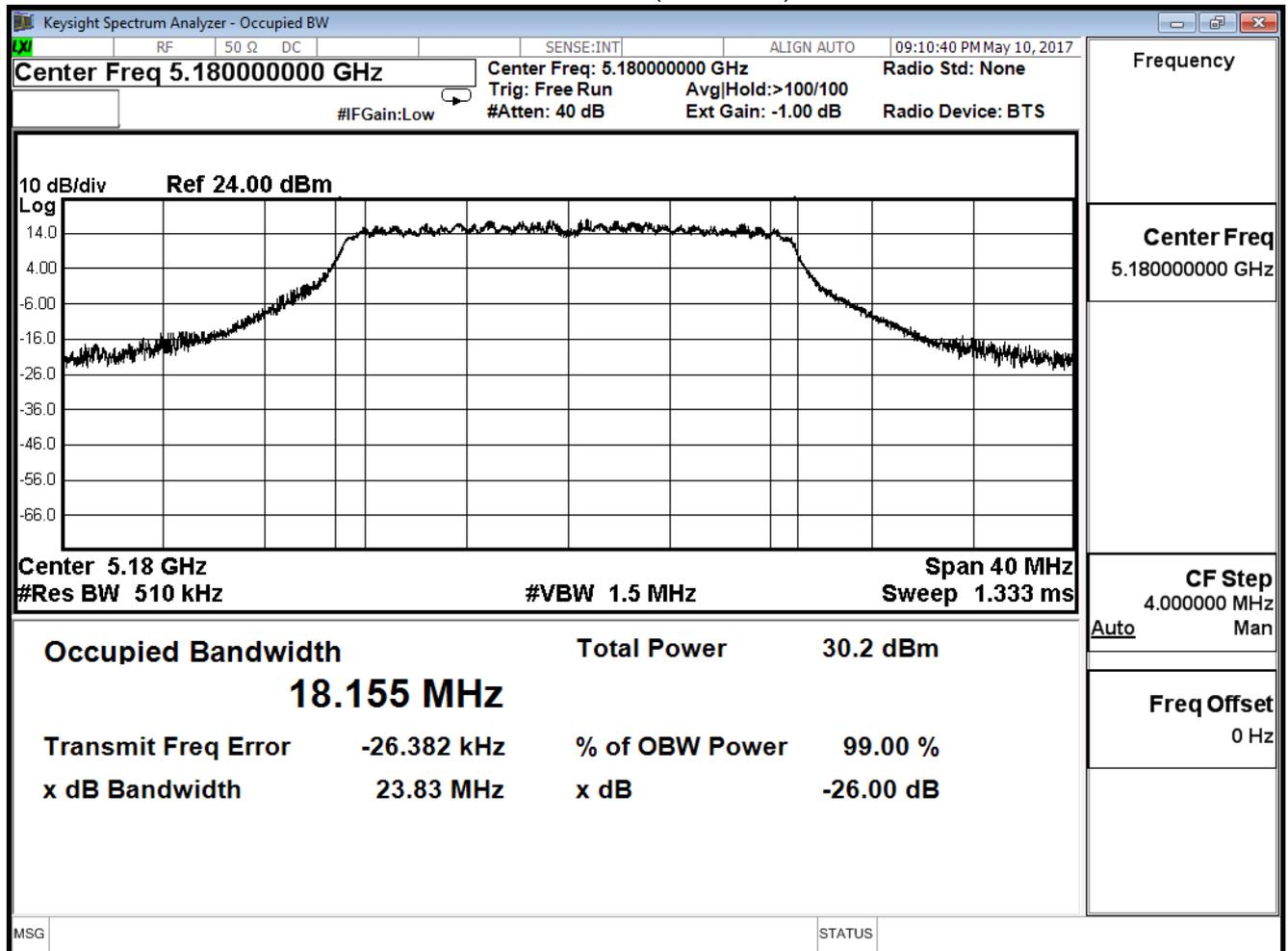
Channel 48 (5240MHz)



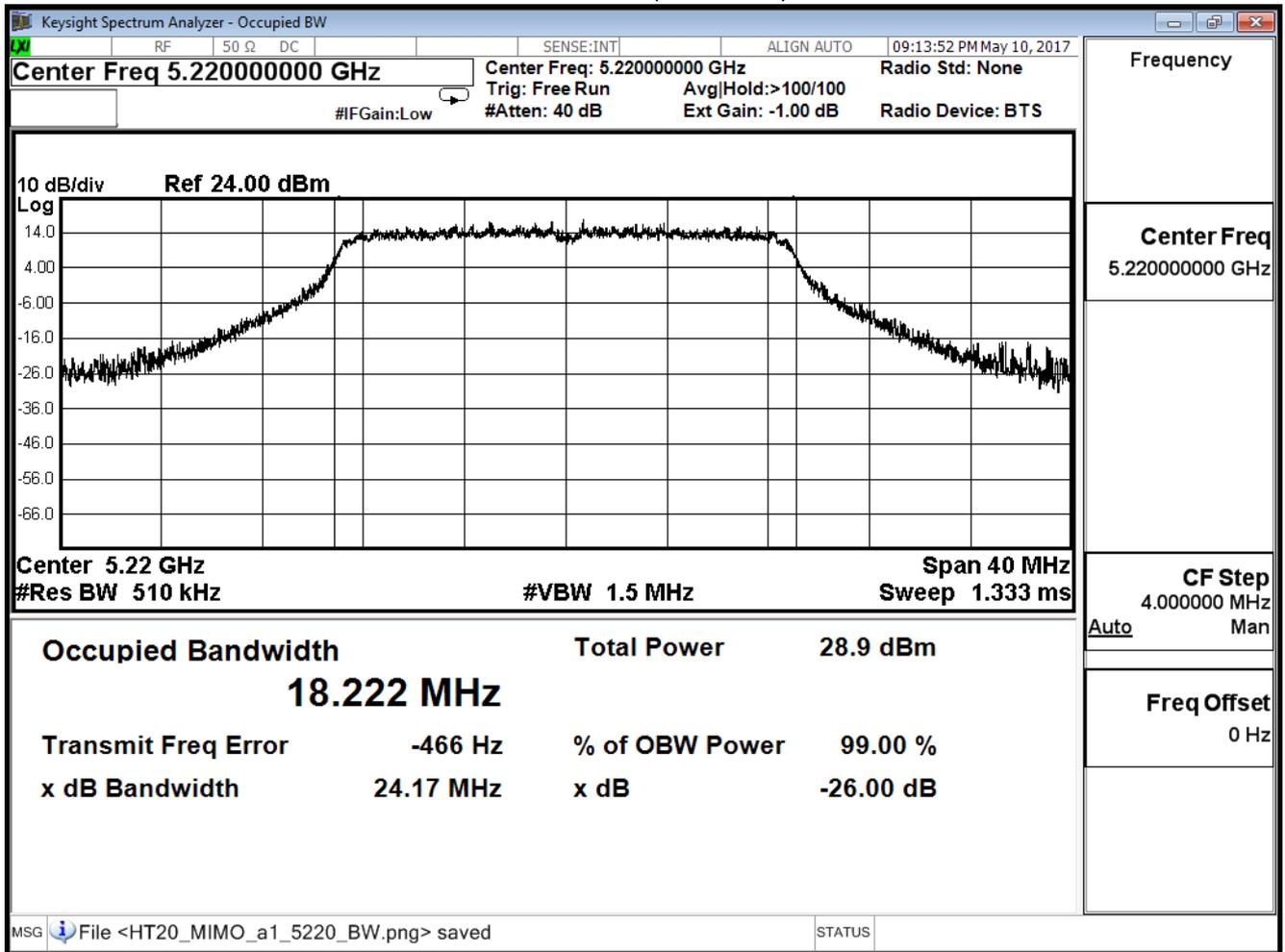
Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

IEEE 802.11n(20MHz) (ANT2)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
36	5180	23.83	18.155	--
44	5220	24.17	18.222	--
48	5240	23.99	18.139	--

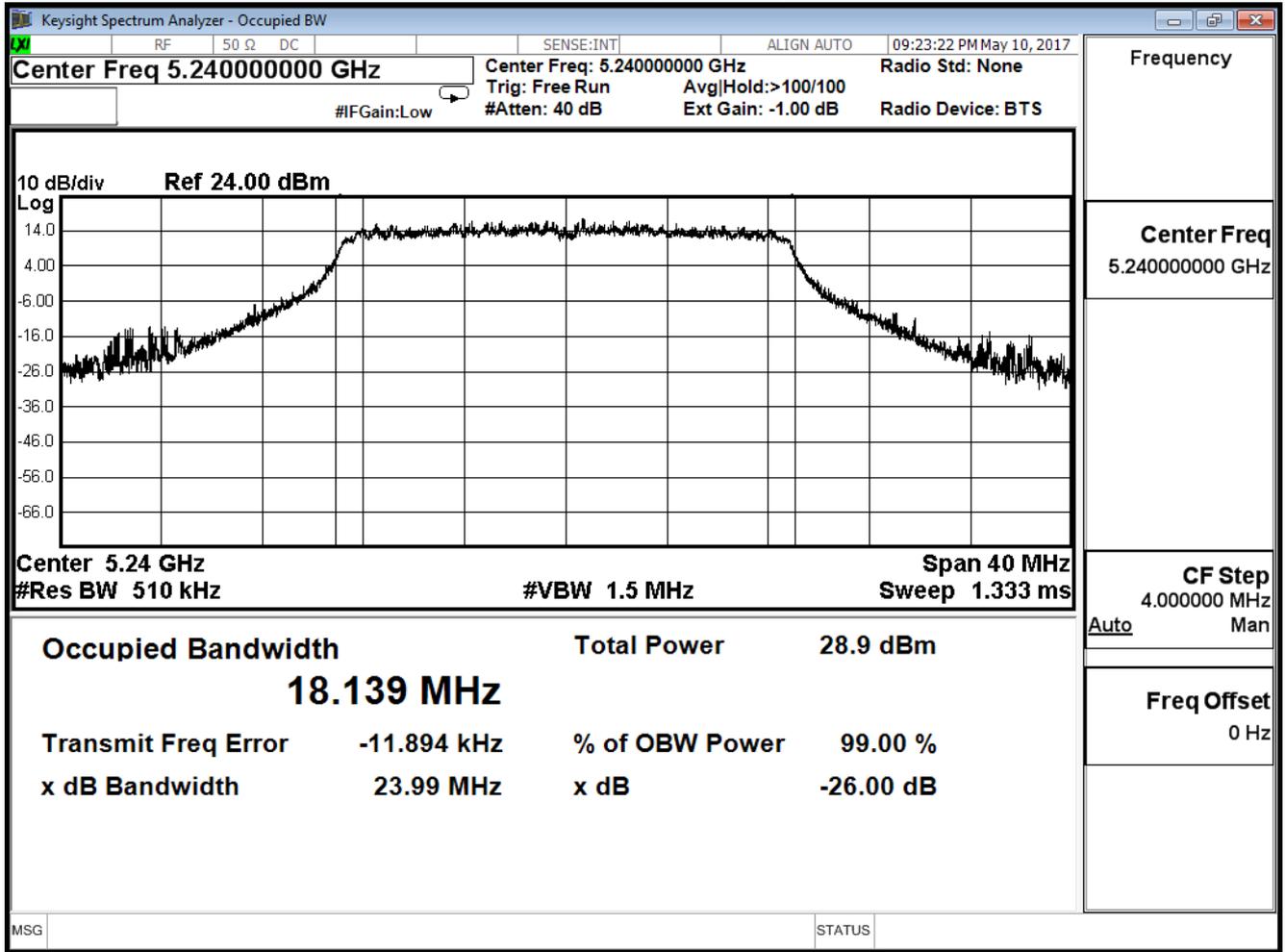
Channel 36 (5180MHz)



Channel 44 (5220MHz)



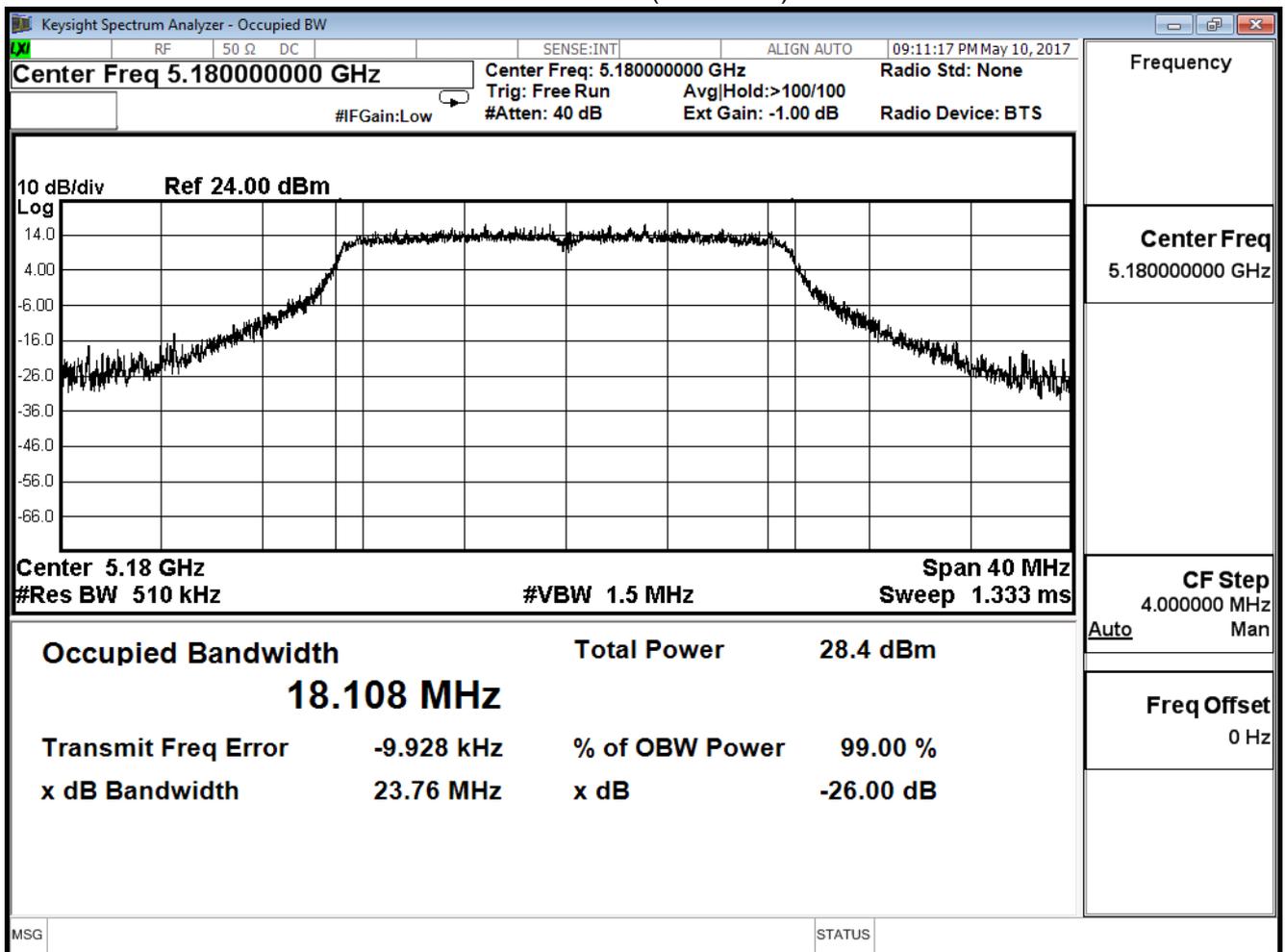
Channel 48 (5240MHz)



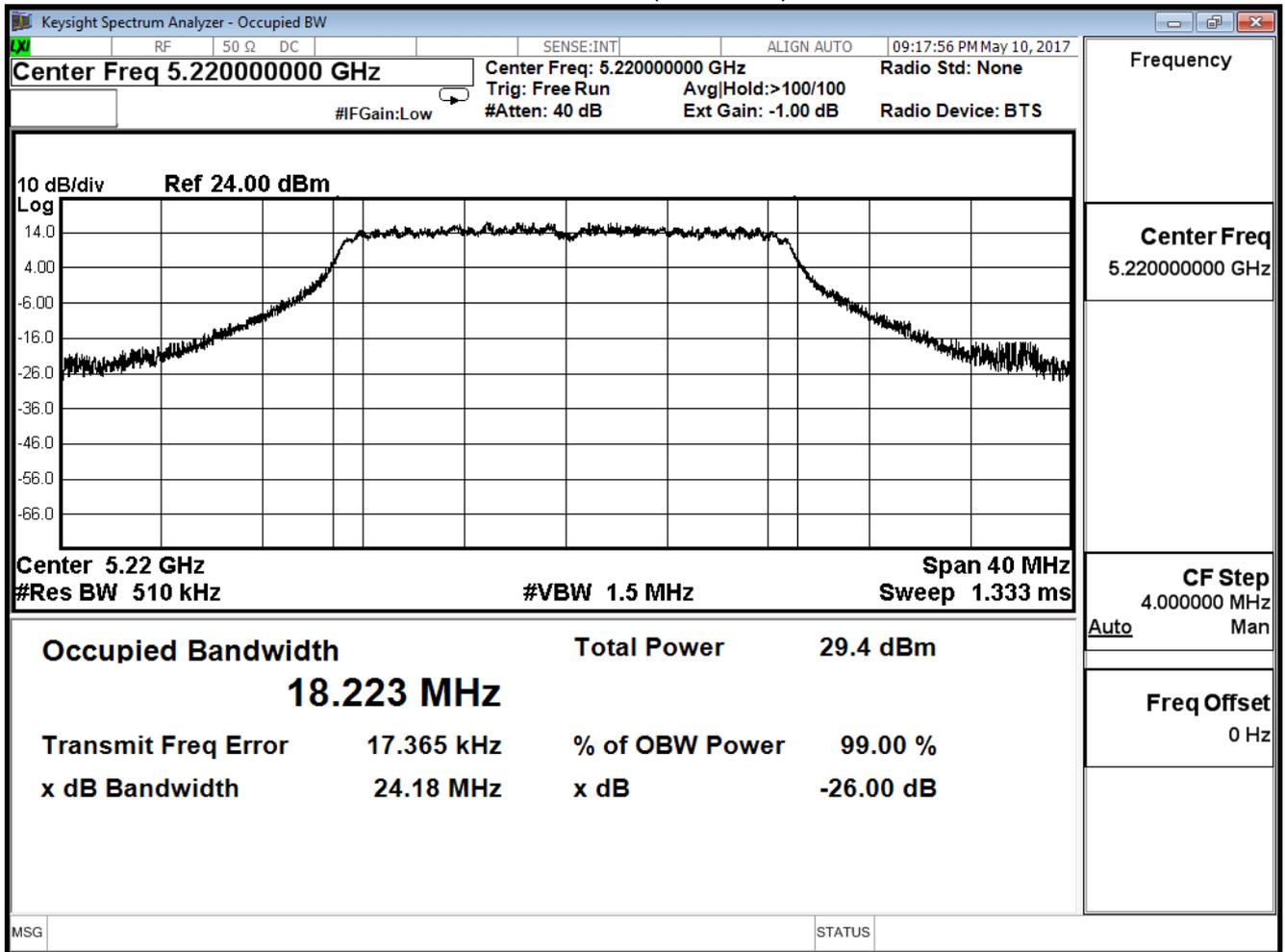
Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

IEEE 802.11n(20MHz) (ANT3)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
36	5180	23.760	18.108	--
44	5220	24.180	18.223	--
48	5240	23.970	18.129	--

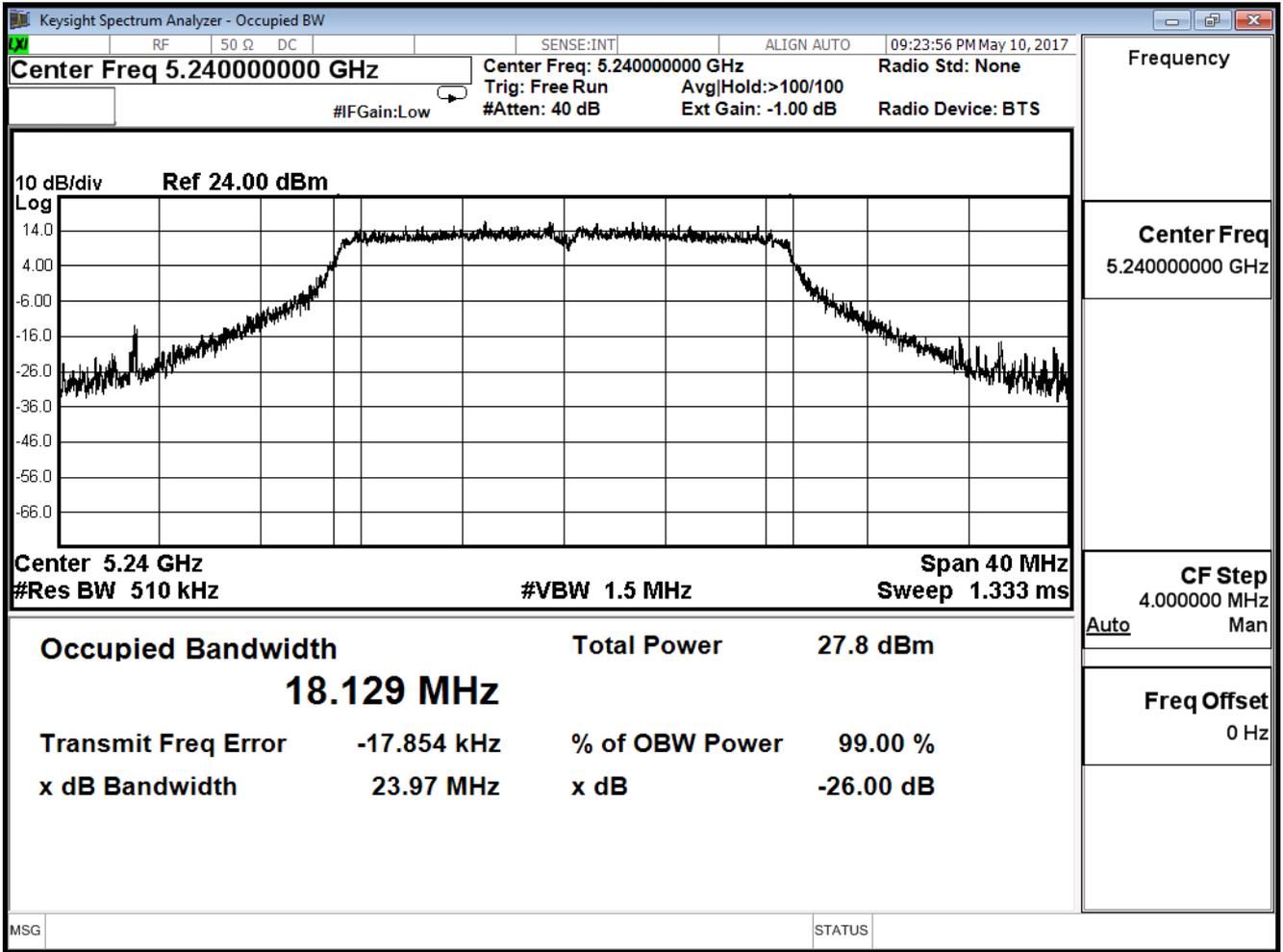
Channel 36 (5180MHz)



Channel 44 (5220MHz)



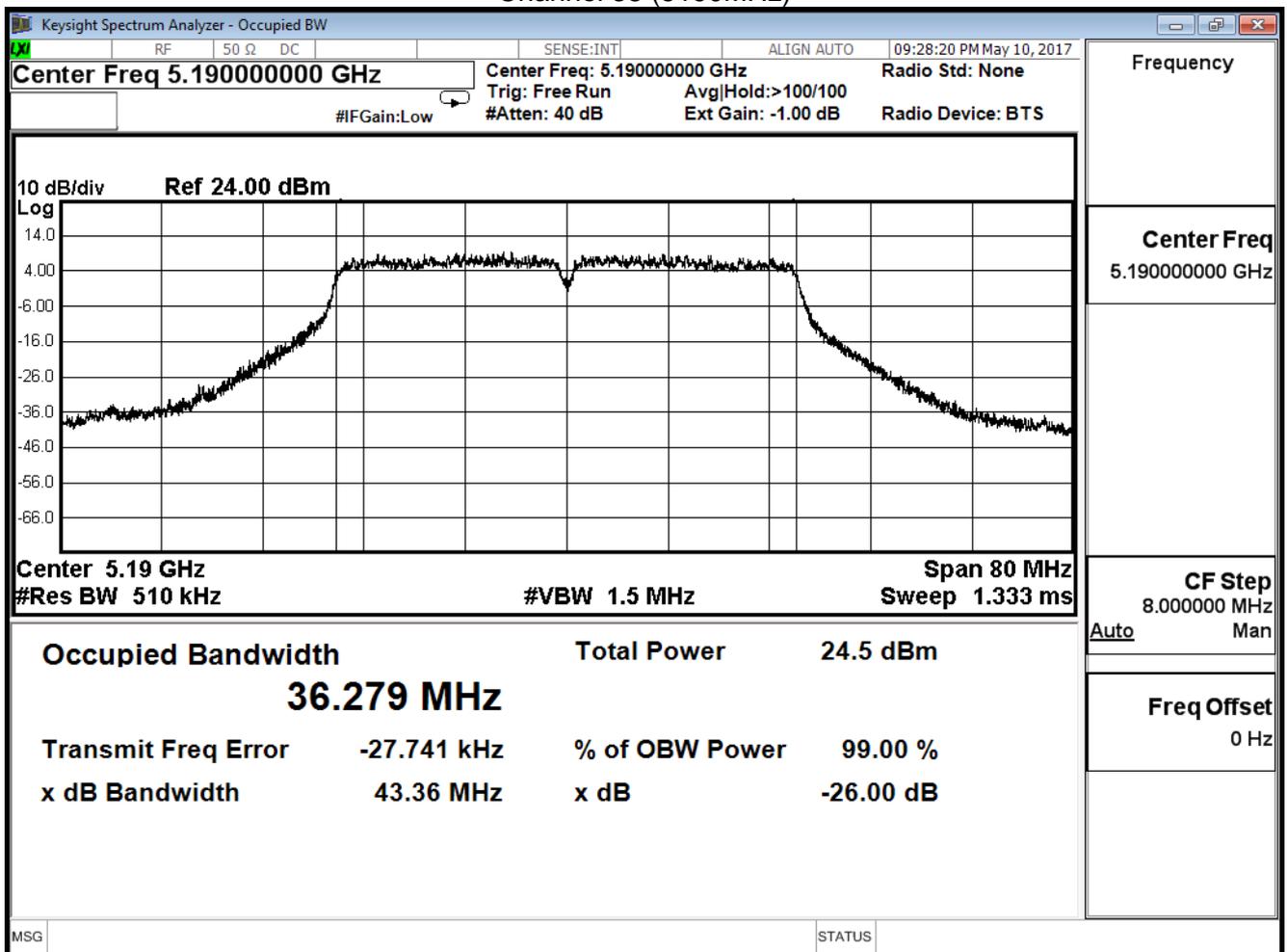
Channel 48 (5240MHz)



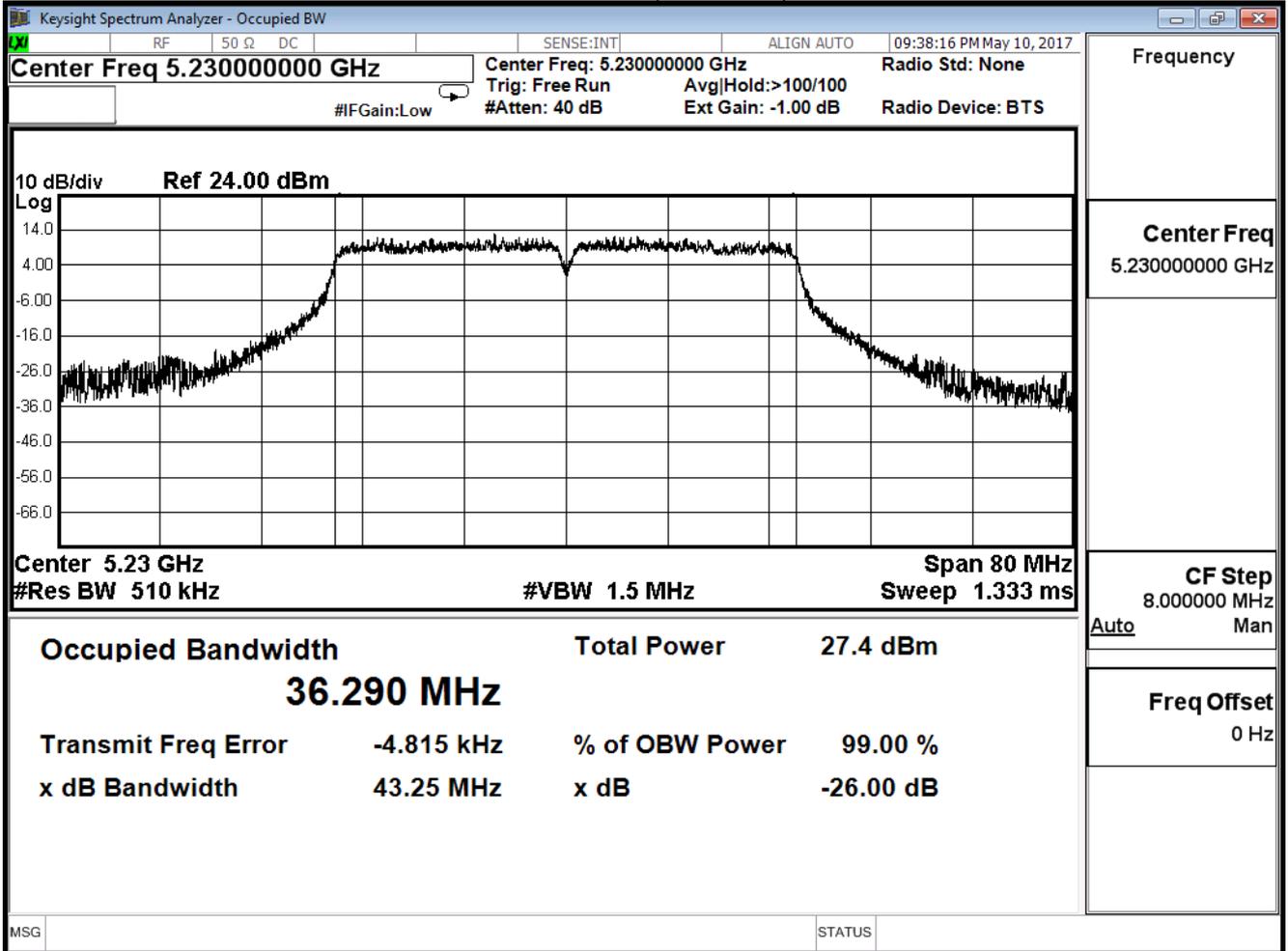
Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

IEEE 802.11n(40MHz) (ANT0)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
38	5190	43.360	36.279	--
46	5230	43.250	36.290	--

Channel 38 (5190MHz)



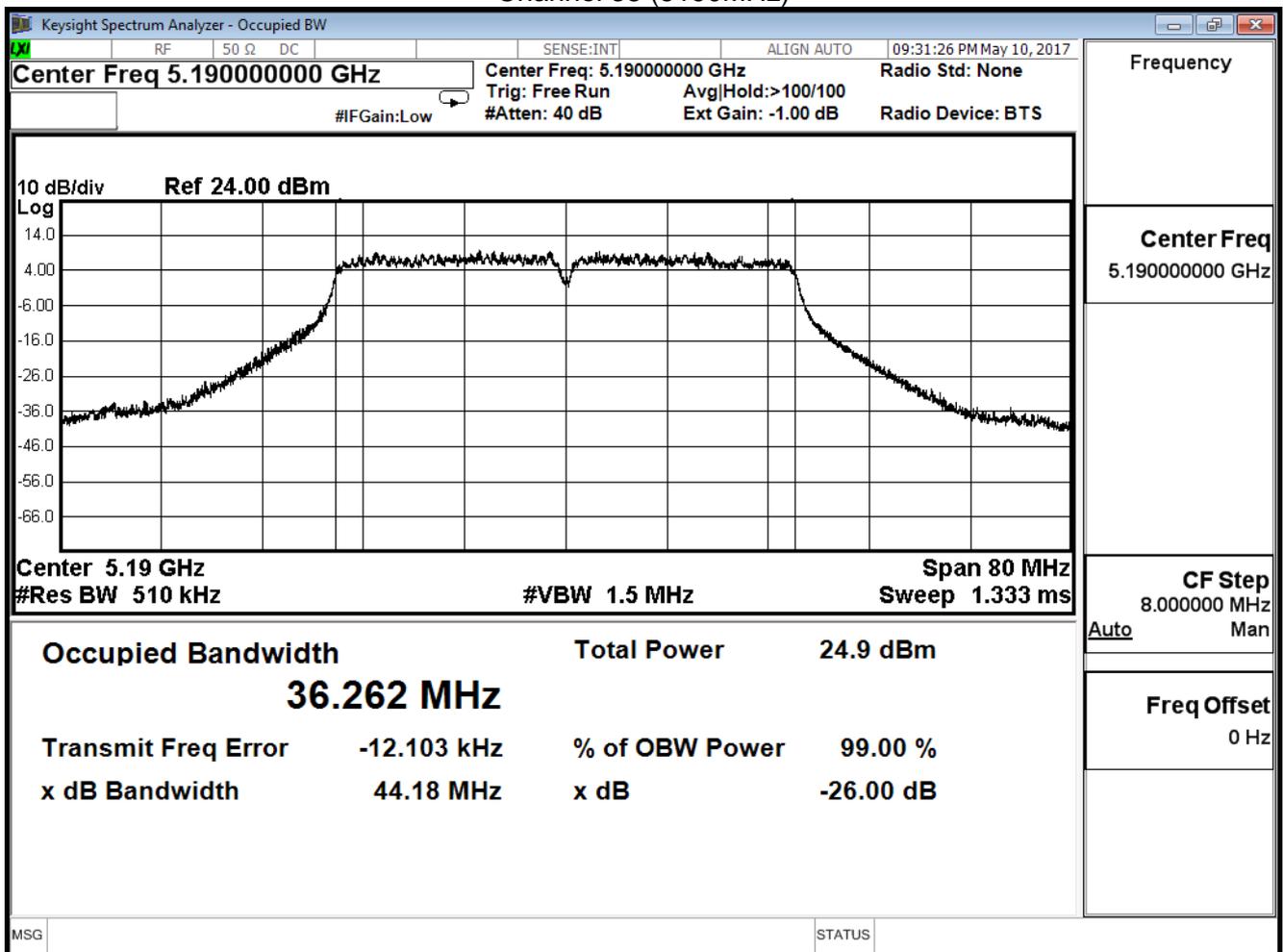
Channel 46 (5230MHz)



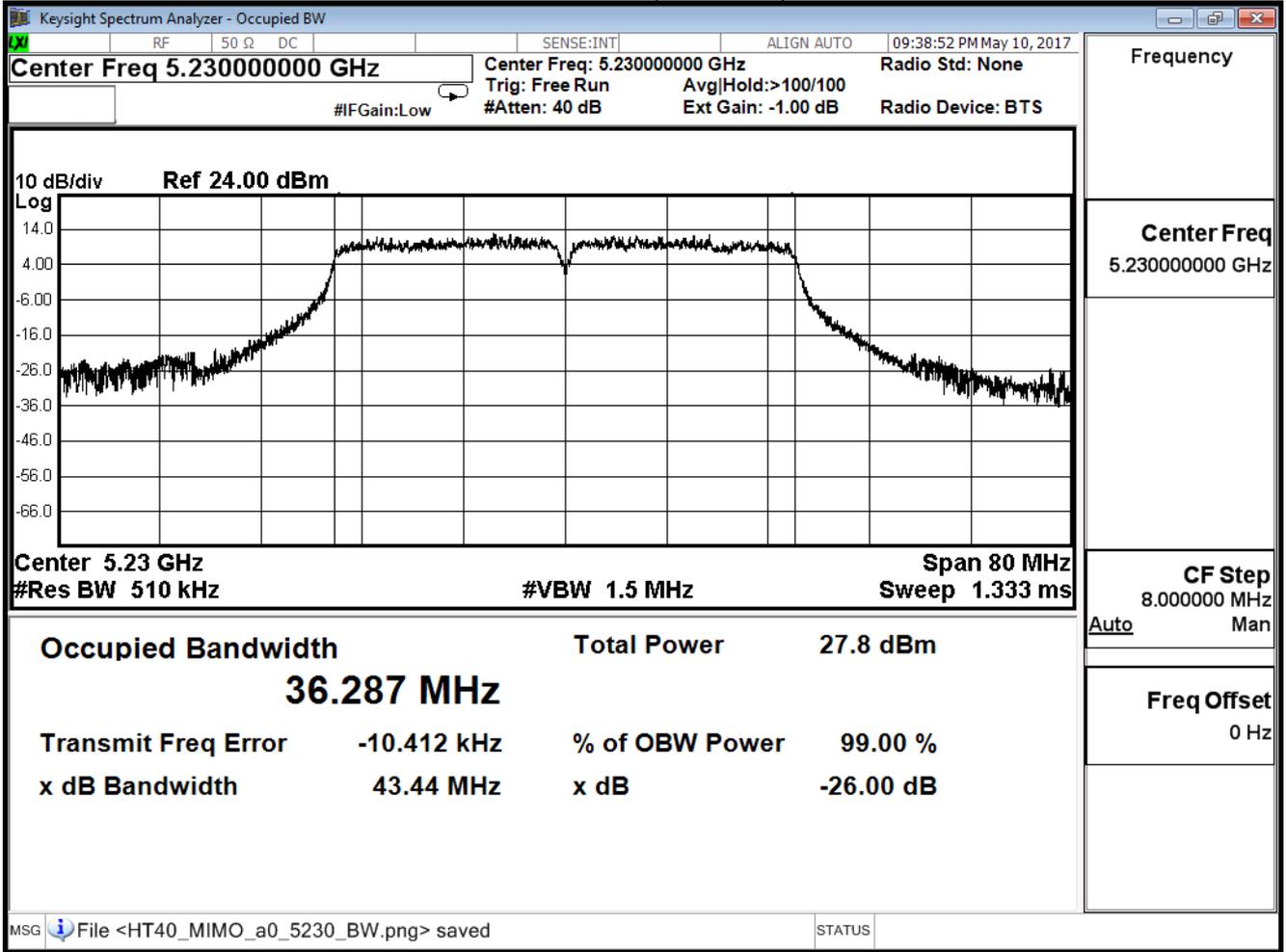
Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

IEEE 802.11n(40MHz) (ANT1)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
38	5190	44.180	36.262	--
46	5230	43.440	36.287	--

Channel 38 (5190MHz)



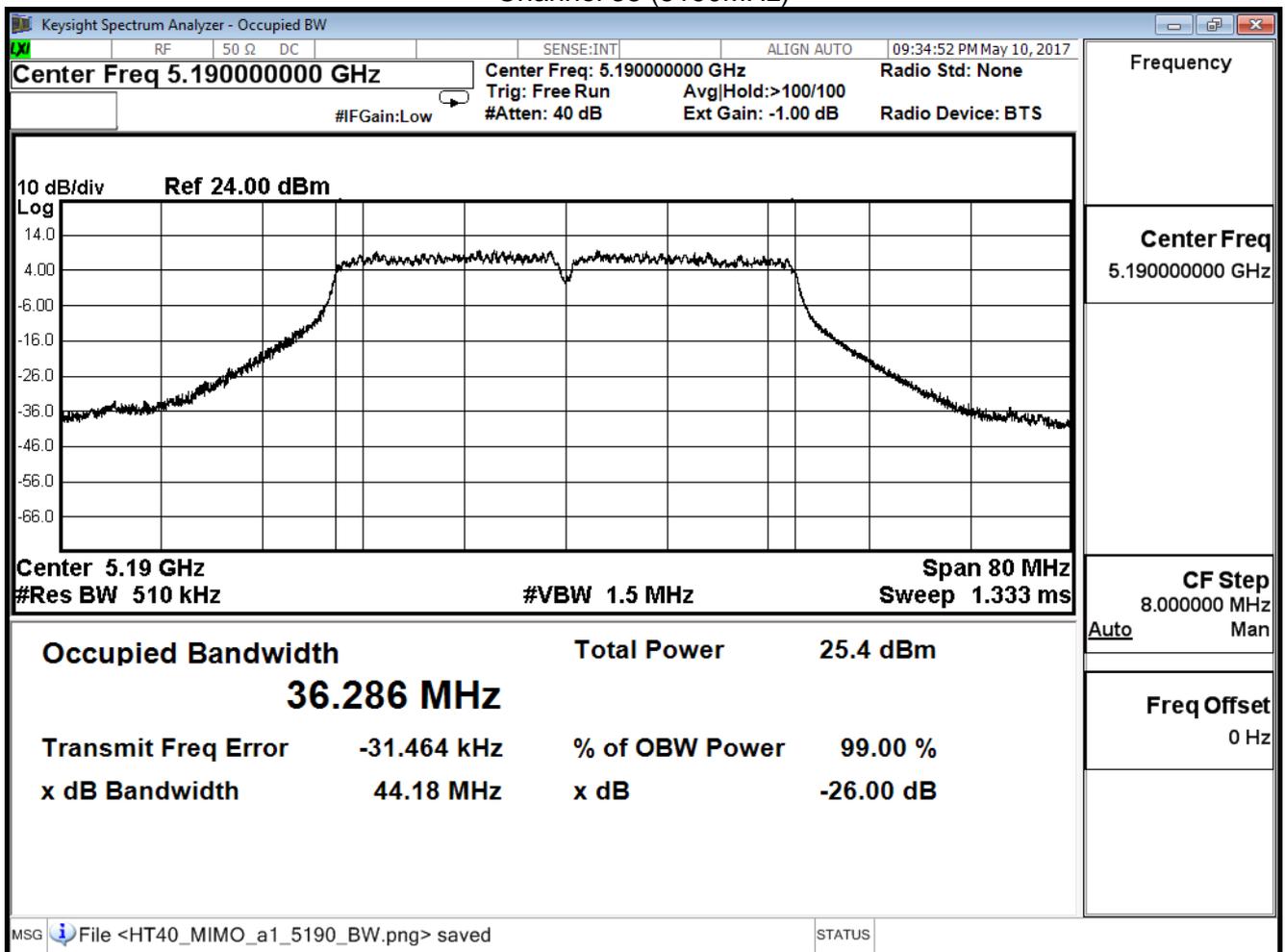
Channel 46 (5230MHz)



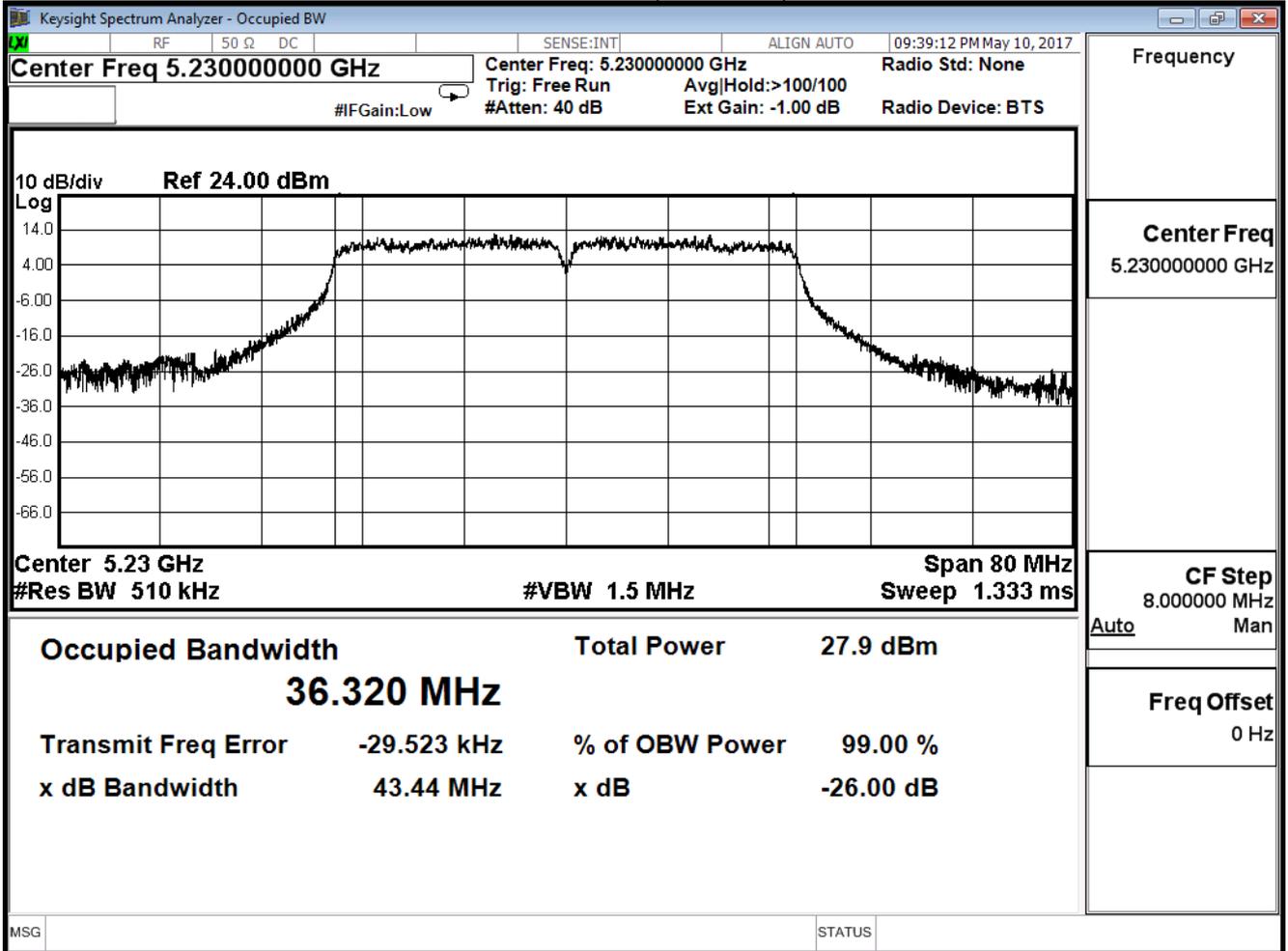
Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

IEEE 802.11n(40MHz) (ANT2)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
38	5190	44.180	36.286	--
46	5230	43.440	36.320	--

Channel 38 (5190MHz)



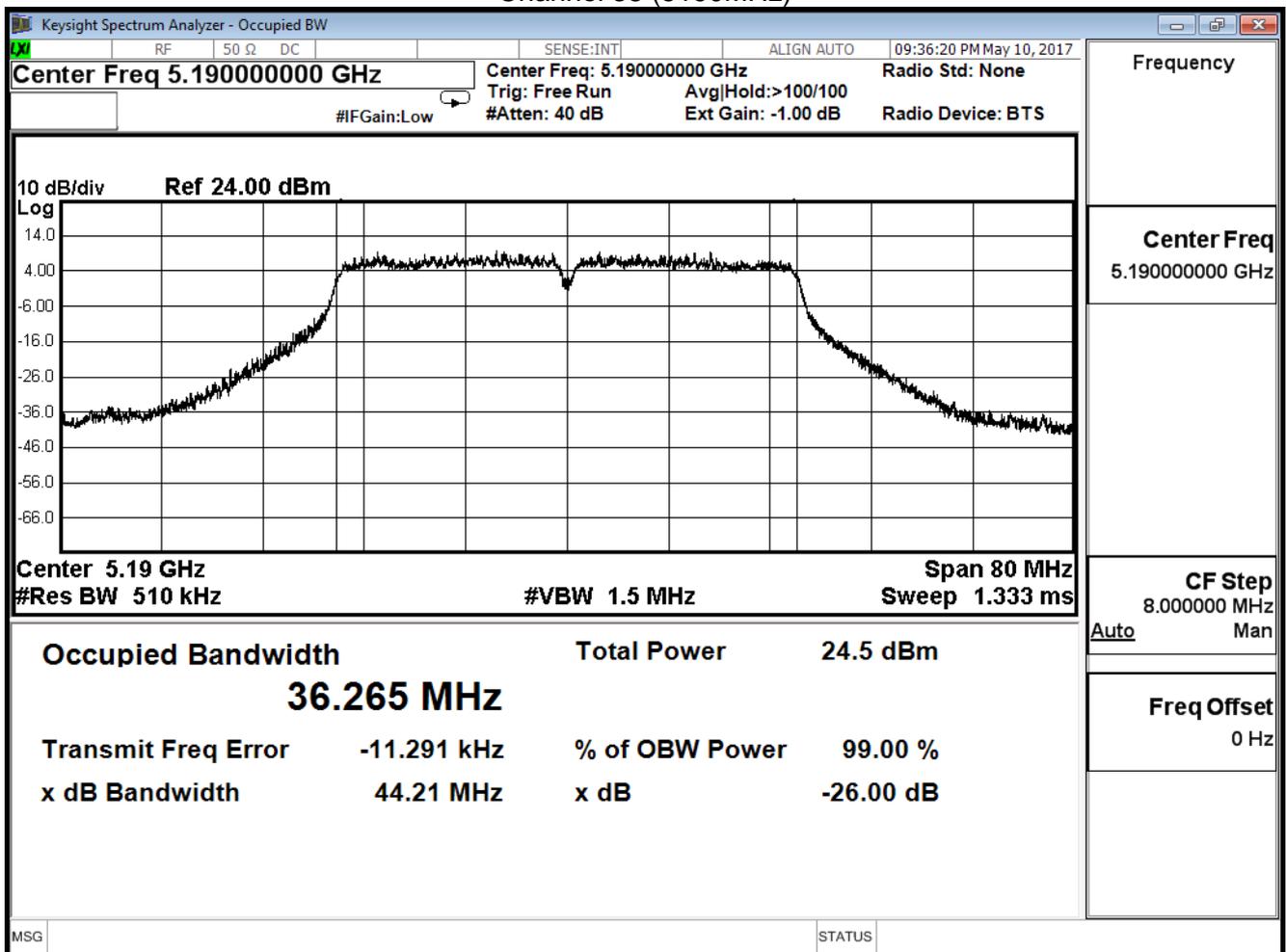
Channel 46 (5230MHz)



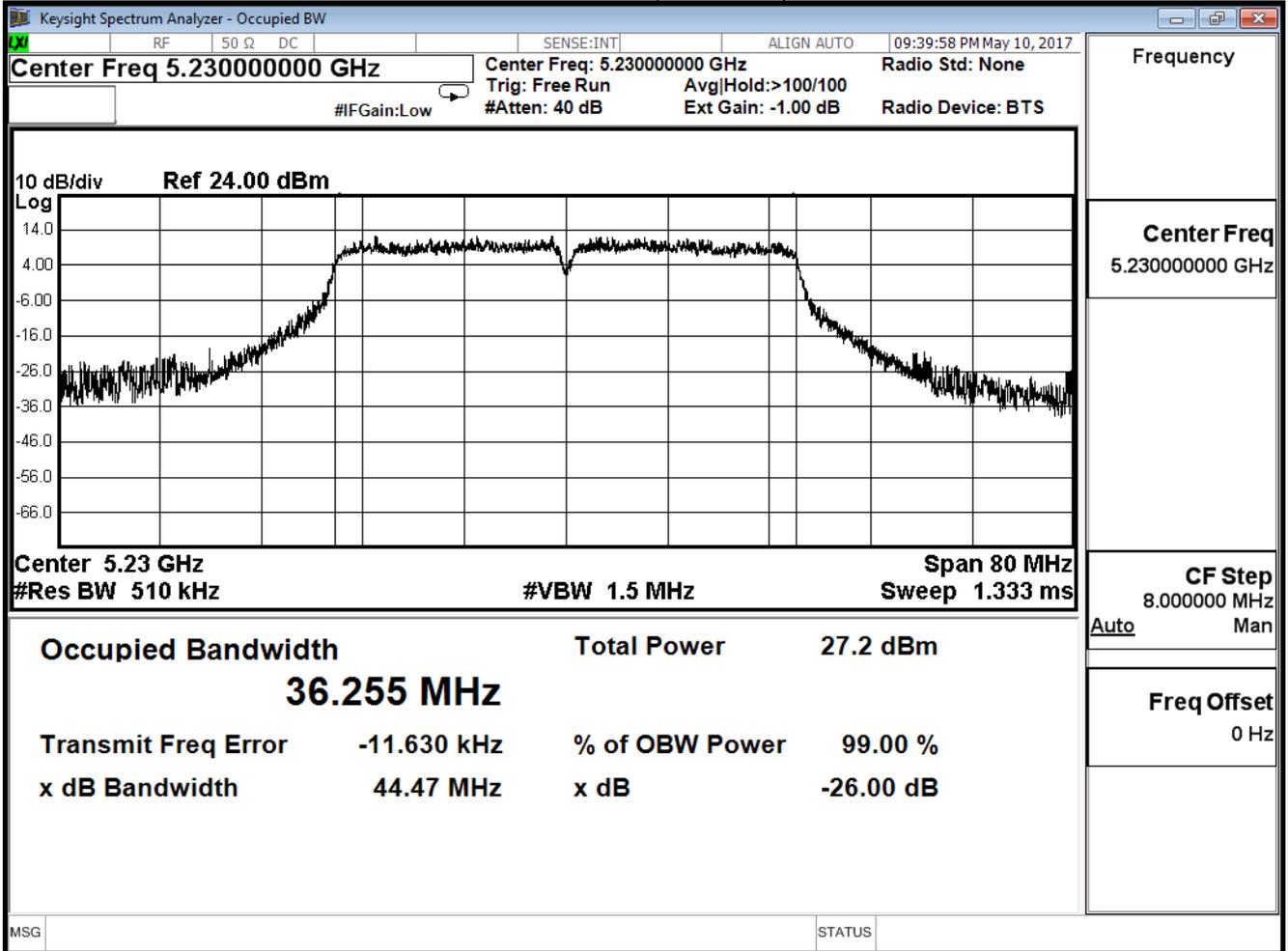
Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

IEEE 802.11n(40MHz) (ANT3)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
38	5190	44.210	36.265	--
46	5230	44.470	36.255	--

Channel 38 (5190MHz)



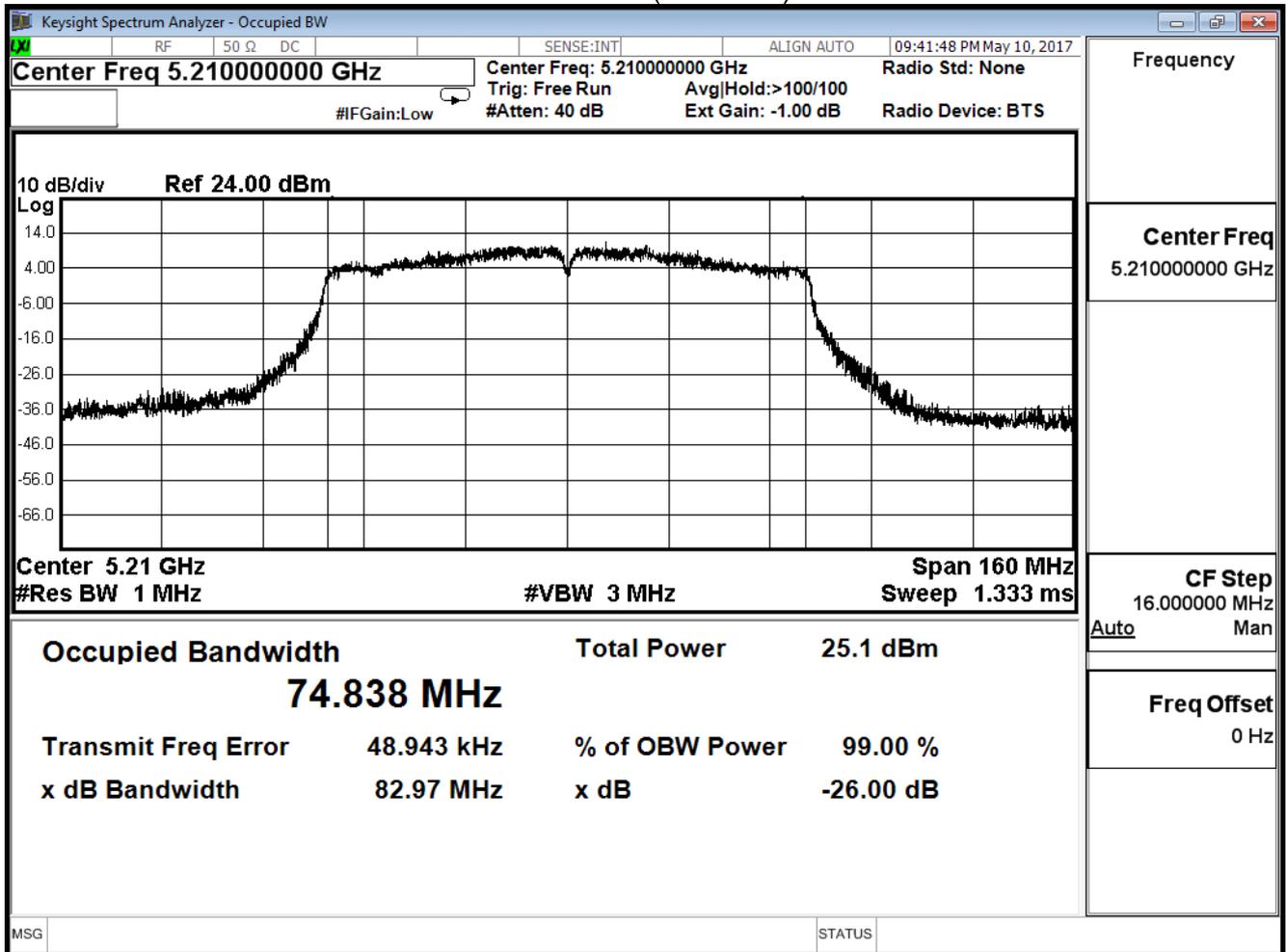
Channel 46 (5230MHz)



Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

IEEE802.11ac(80MHz) (ANT0)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
42	5210	82.970	74.838	--

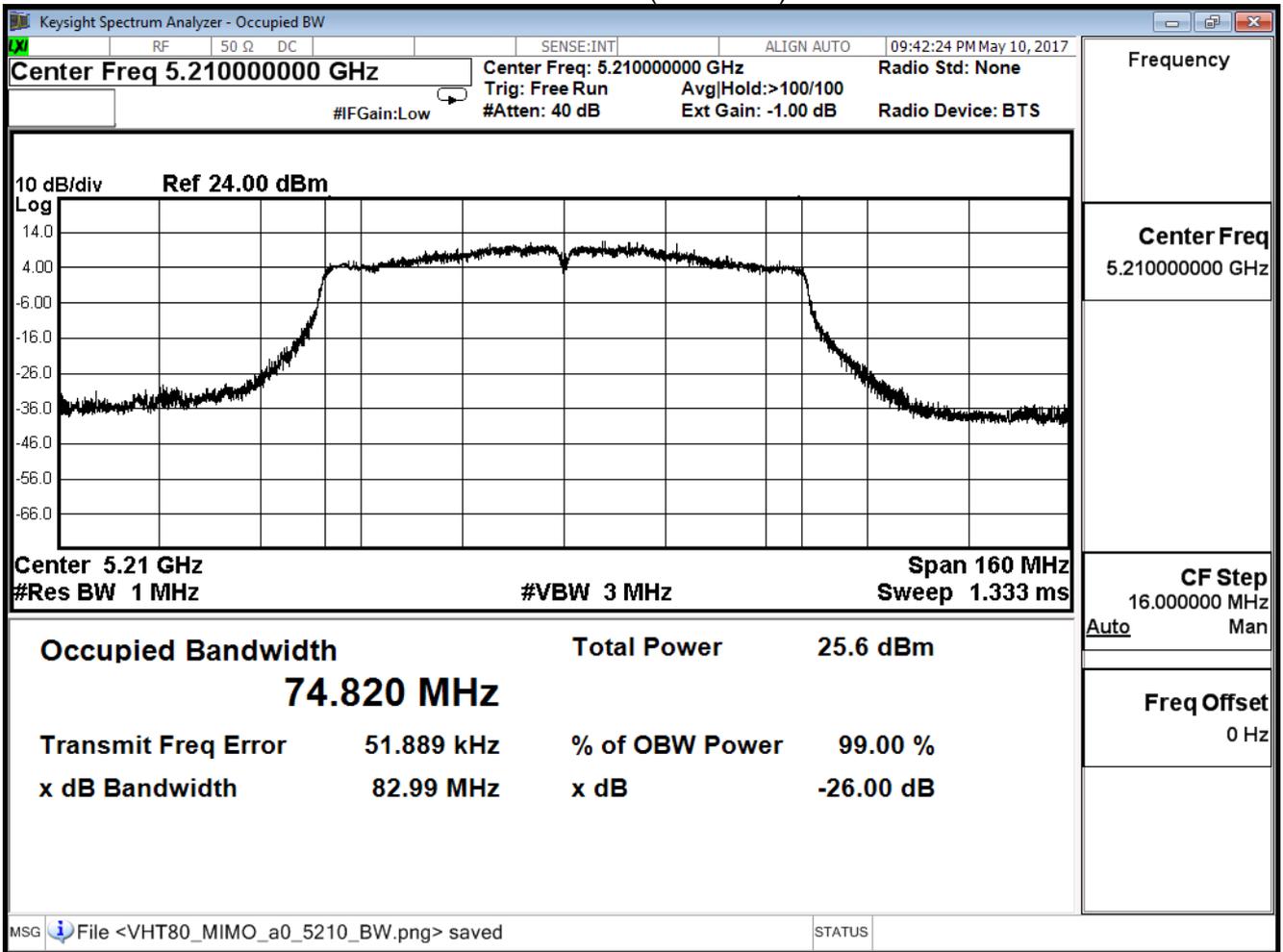
Channel 42 (5210MHz)



Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

IEEE802.11ac(80MHz) (ANT1)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
42	5210	82.990	74.82	--

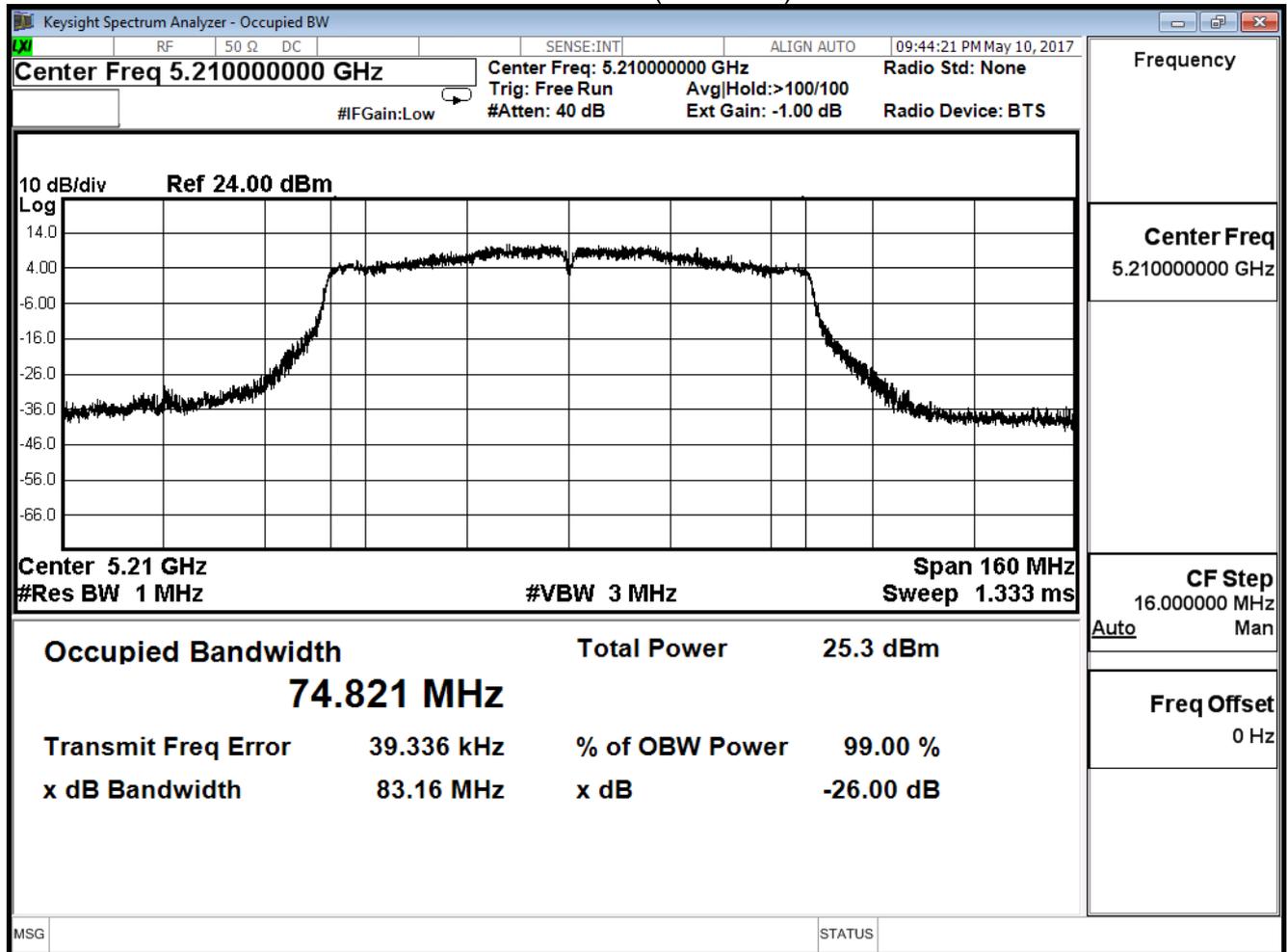
Channel 42 (5210MHz)



Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

IEEE802.11ac(80MHz) (ANT2)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
42	5210	83.160	74.821	--

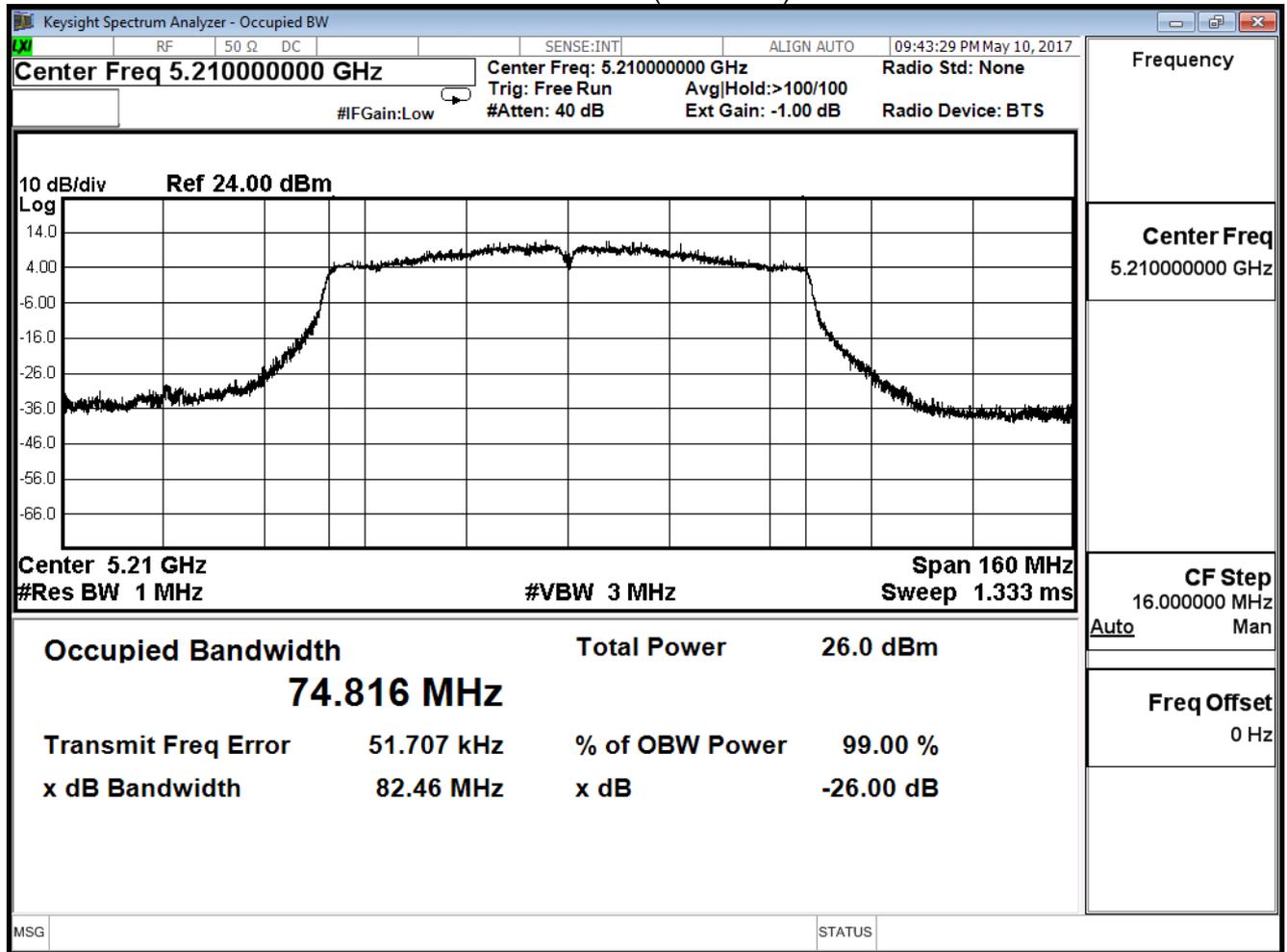
Channel 42 (5210MHz)



Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

IEEE802.11ac(80MHz) (ANT3)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
42	5210	82.460	74.816	--

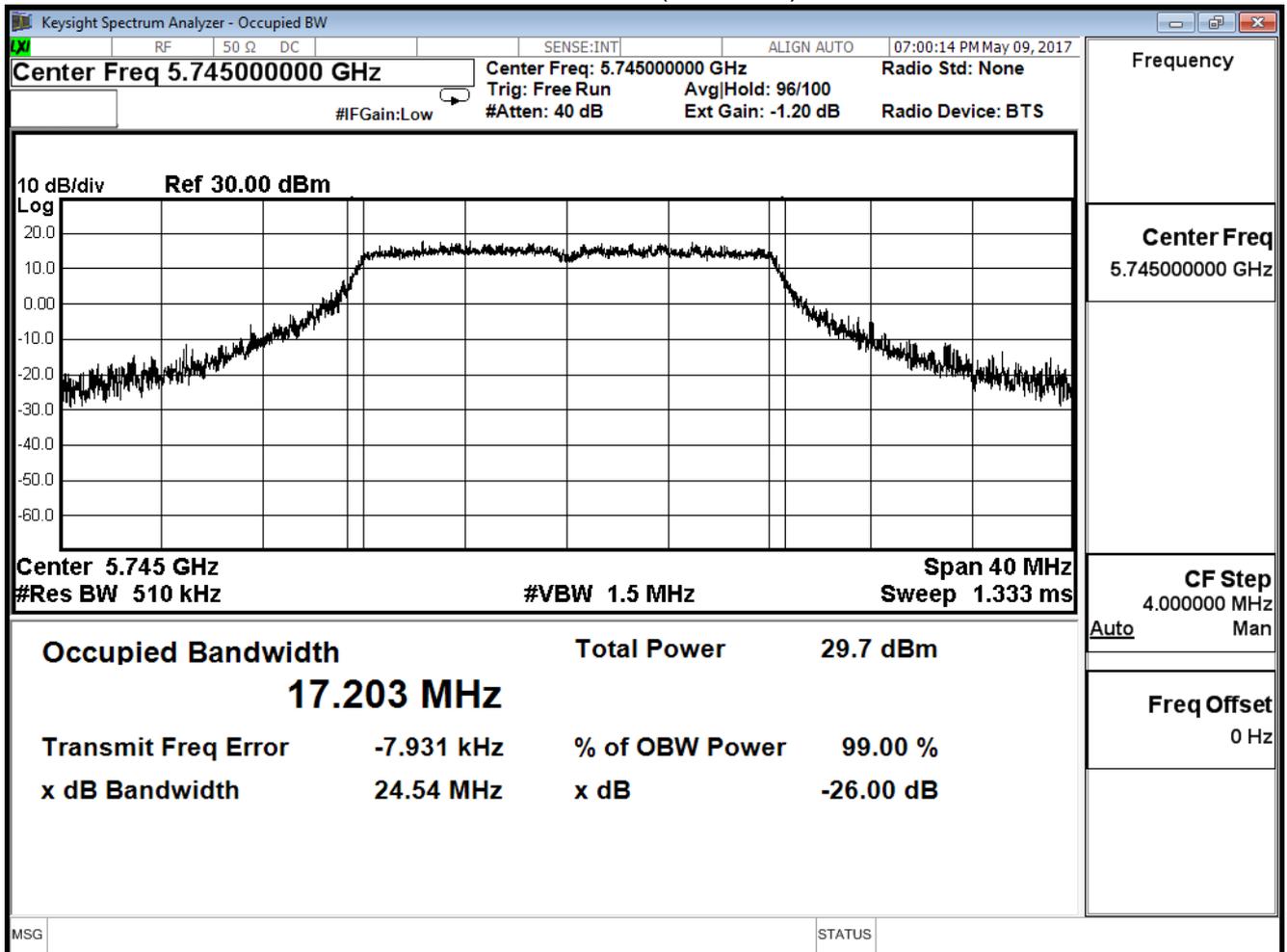
Channel 42 (5210MHz)



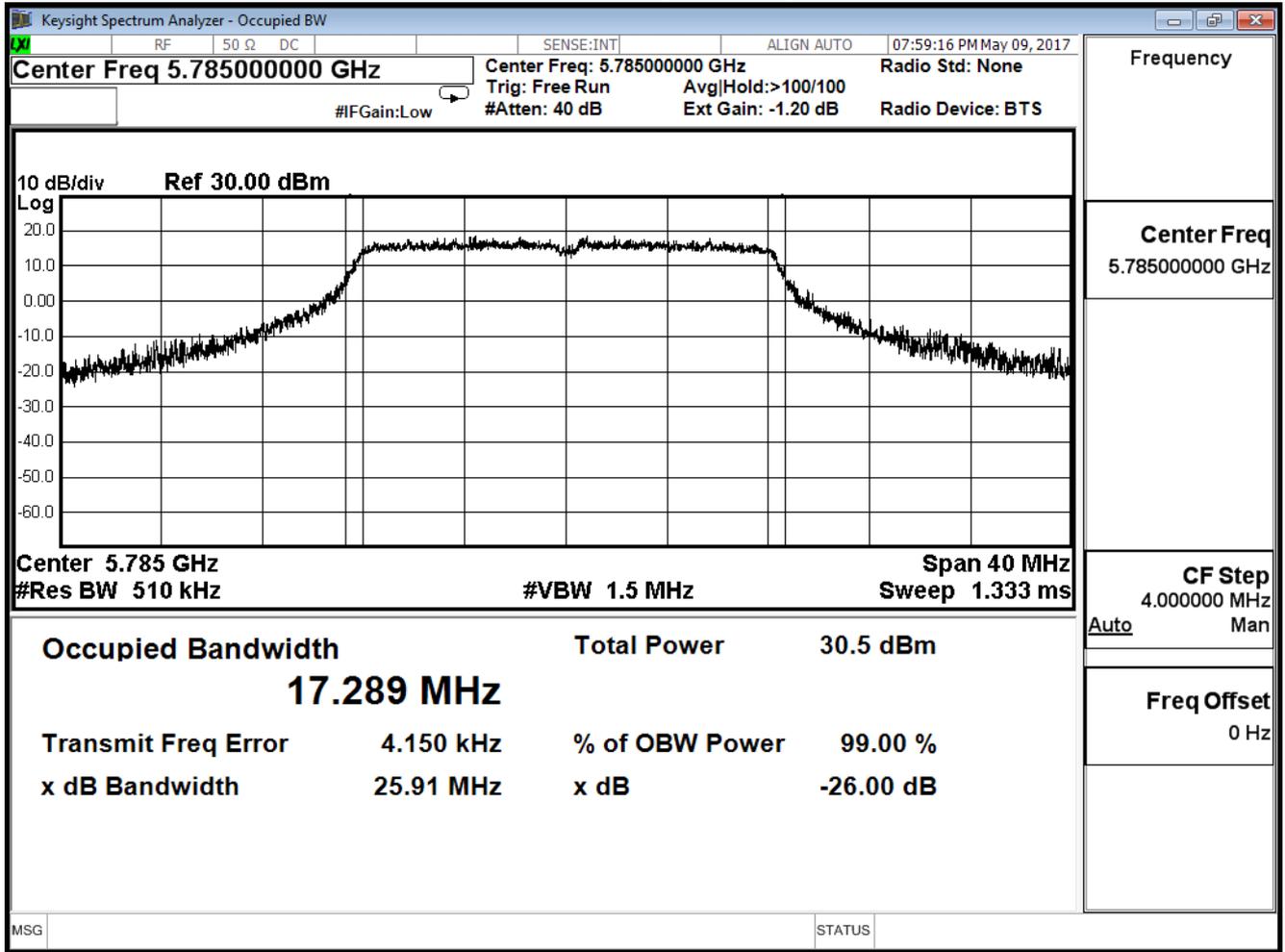
Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: TX CDD_ ADP: AD890326		
Date of Test	2017/05/09	Test Site	SR10-H

802.11a (ANT0)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
149	5745	17.203	--
157	5785	17.289	--
165	5825	17.264	--

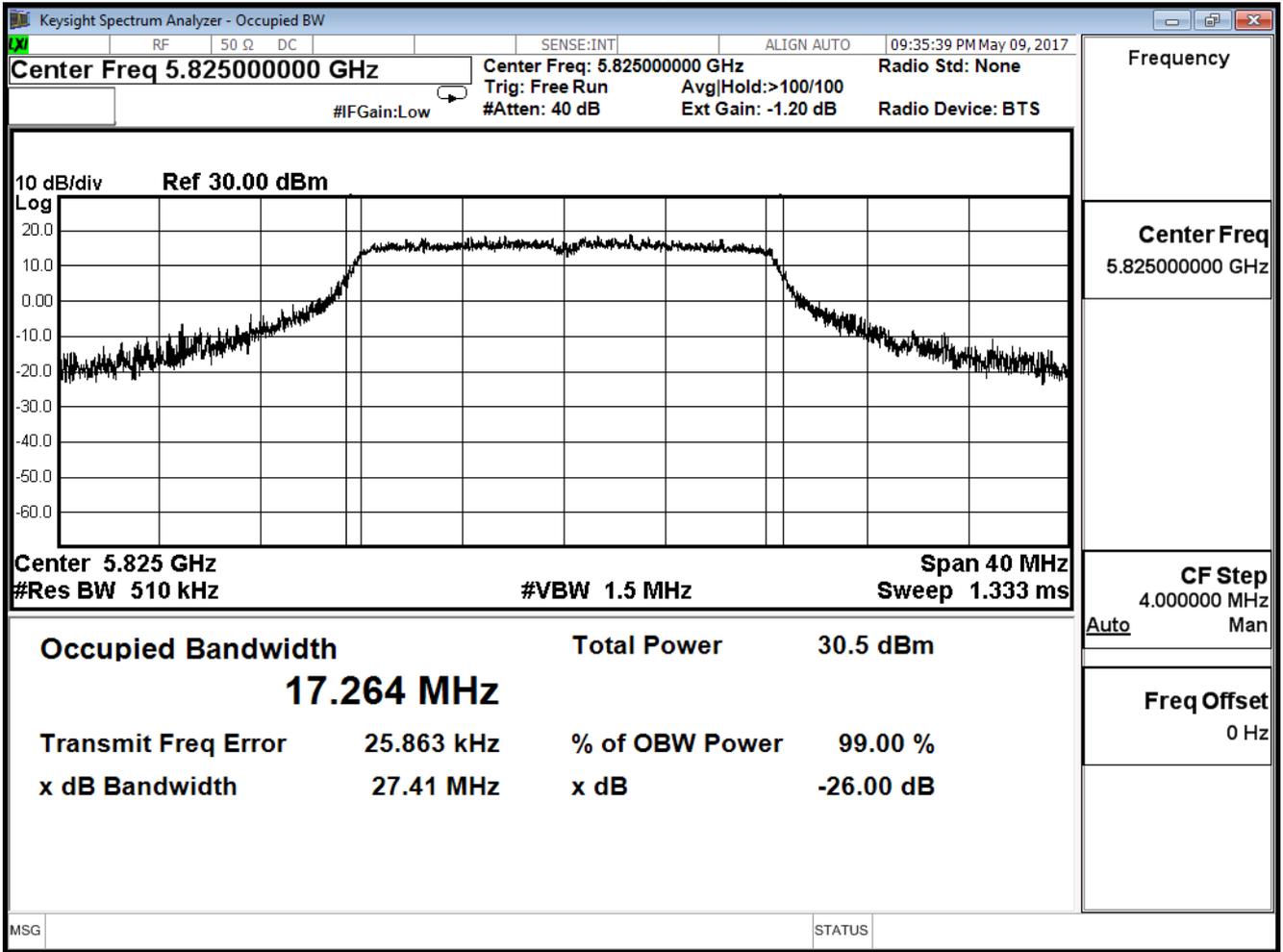
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

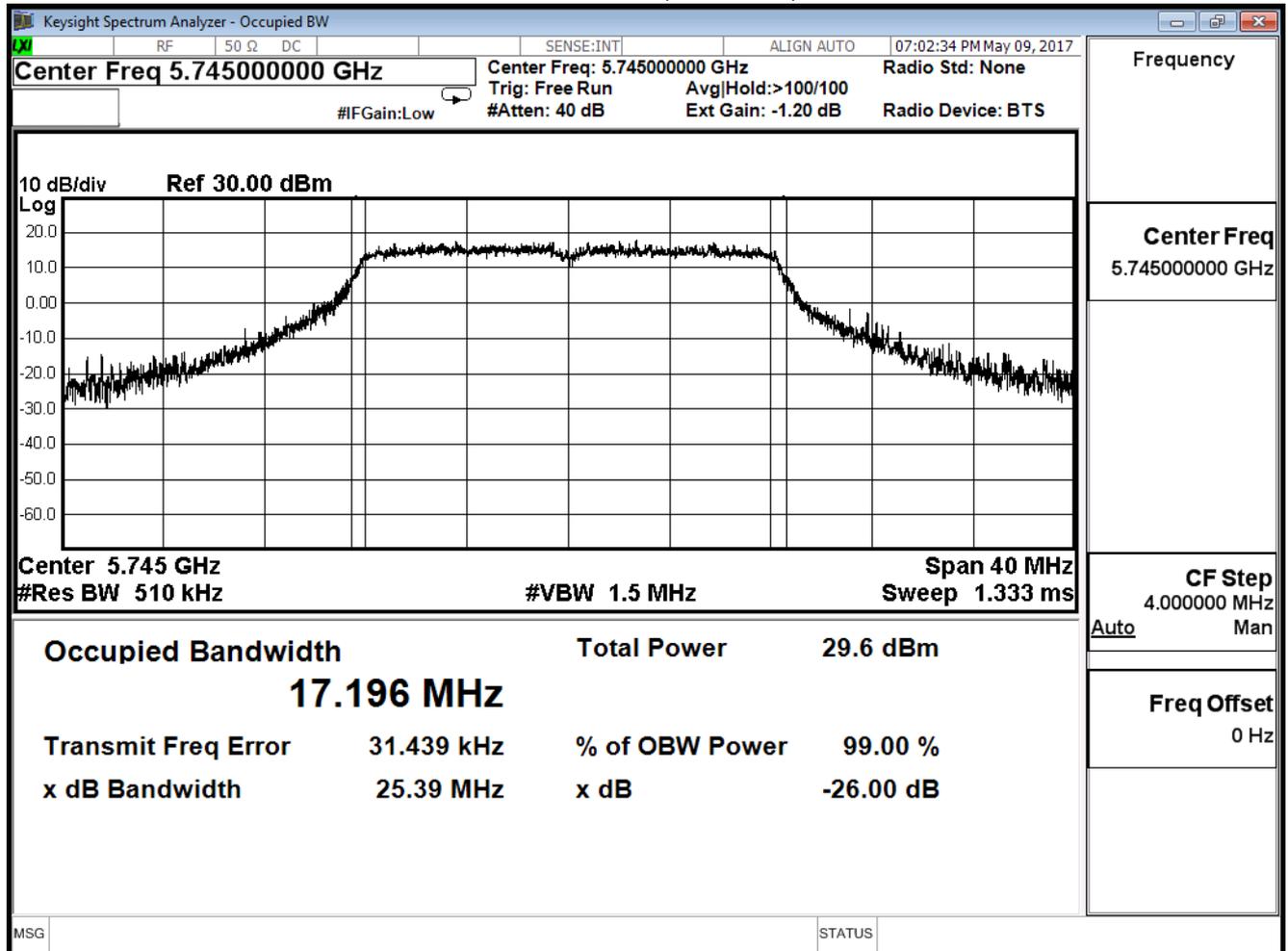


Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: TX CDD_ ADP: AD890326		
Date of Test	2017/05/09	Test Site	SR10-H

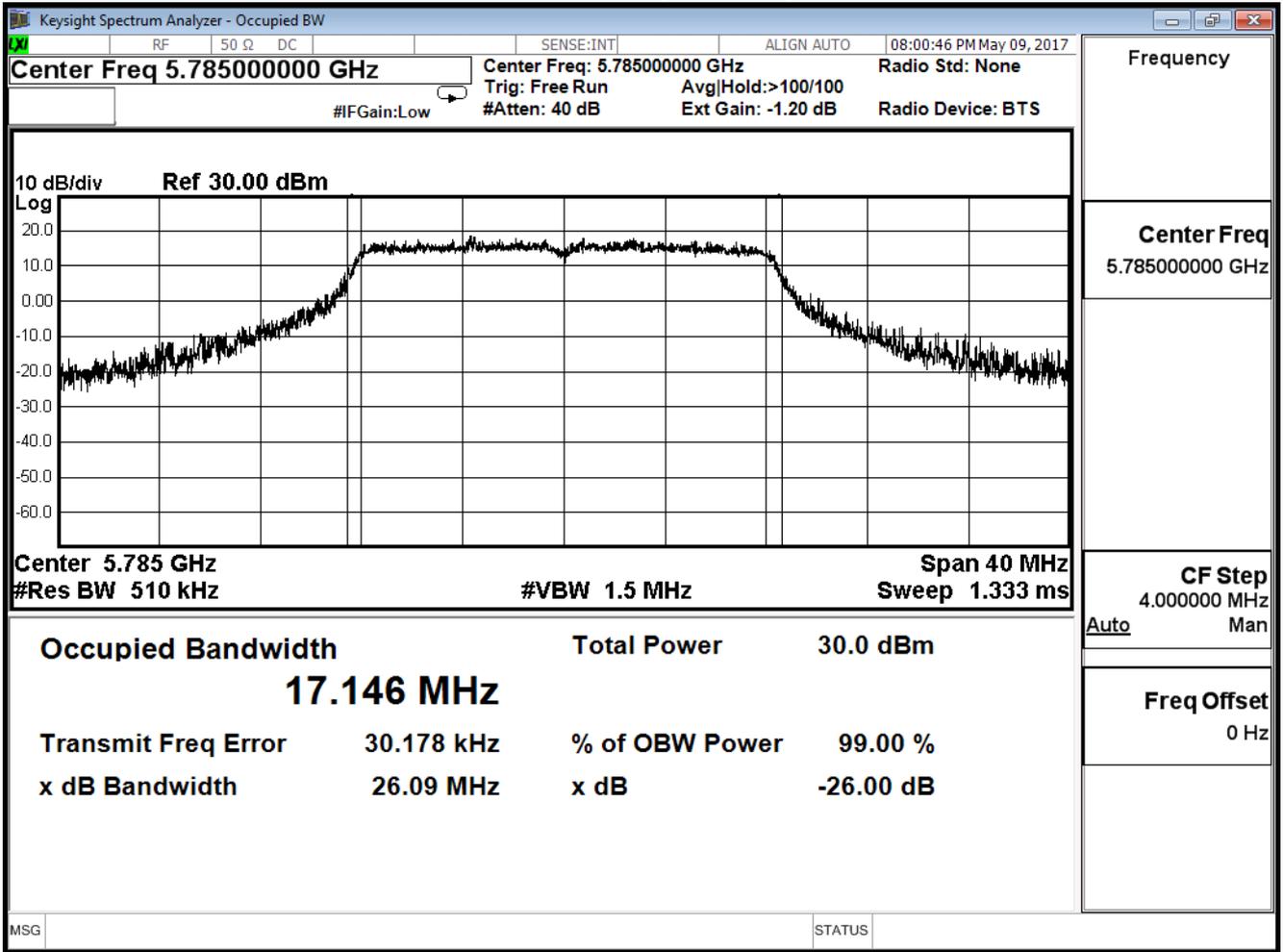
802.11a (ANT1)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
149	5745	17.196	--
157	5785	17.146	--
165	5825	17.382	--

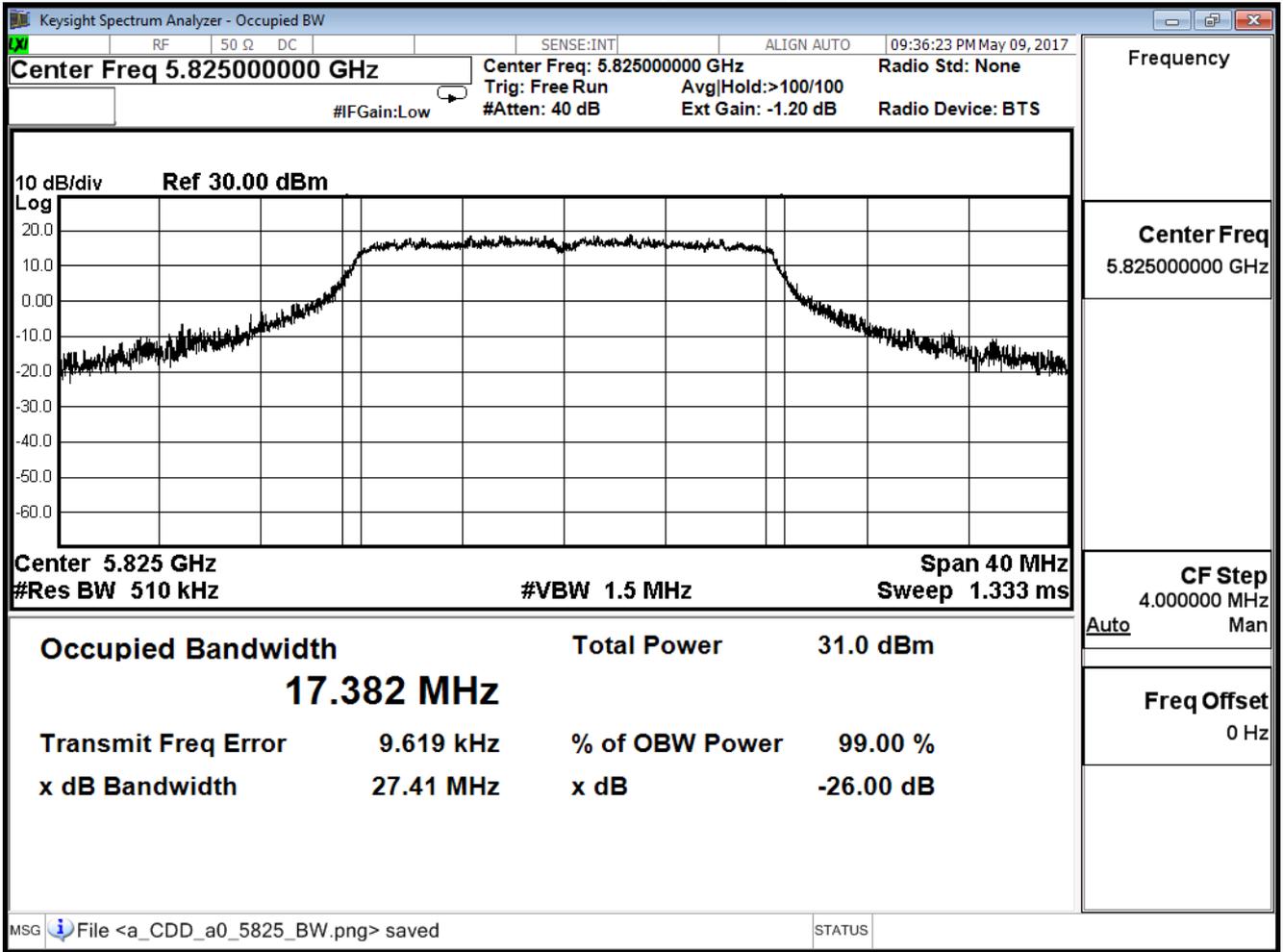
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

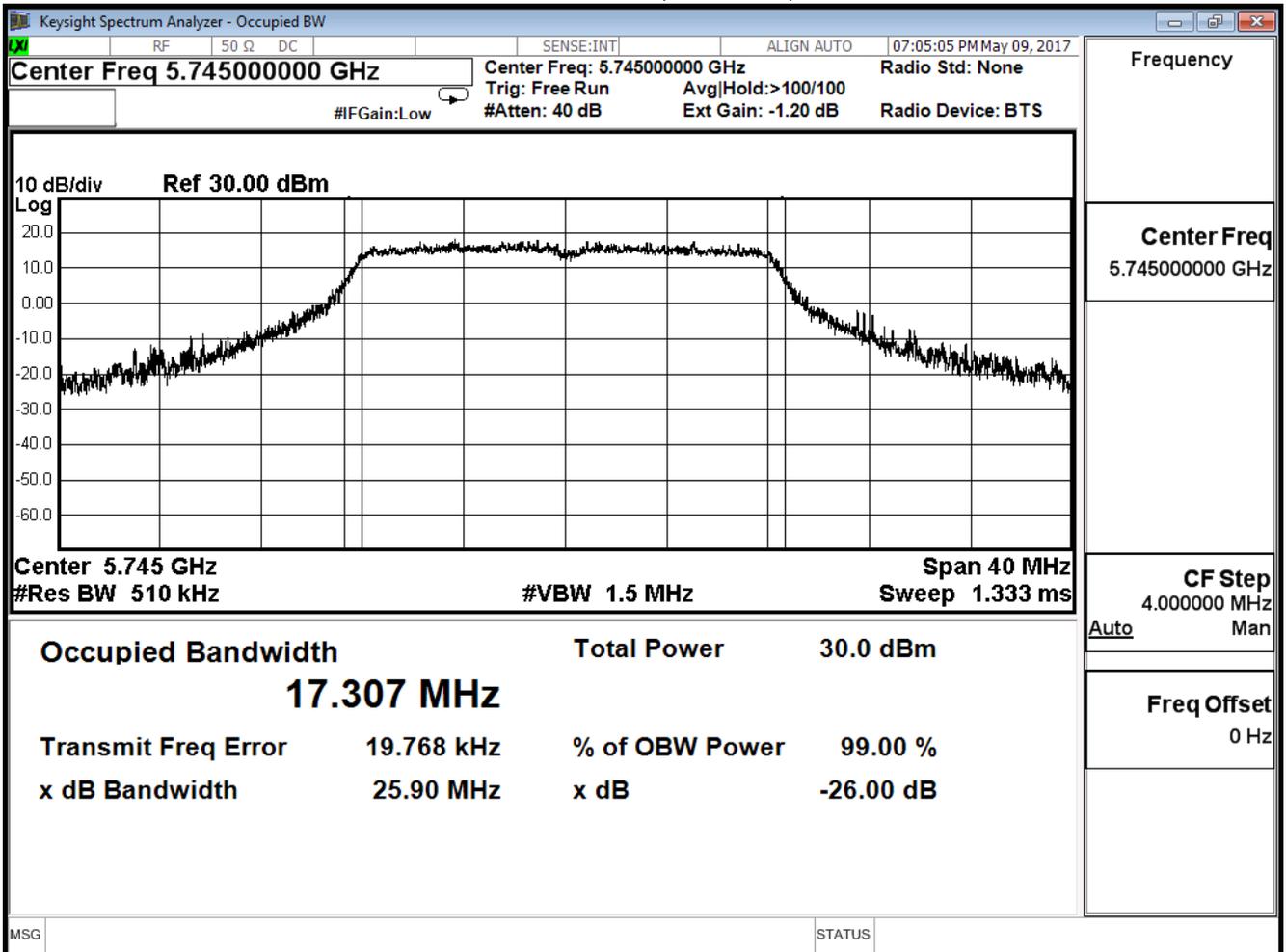


Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: TX CDD_ ADP: AD890326		
Date of Test	2017/05/09	Test Site	SR10-H

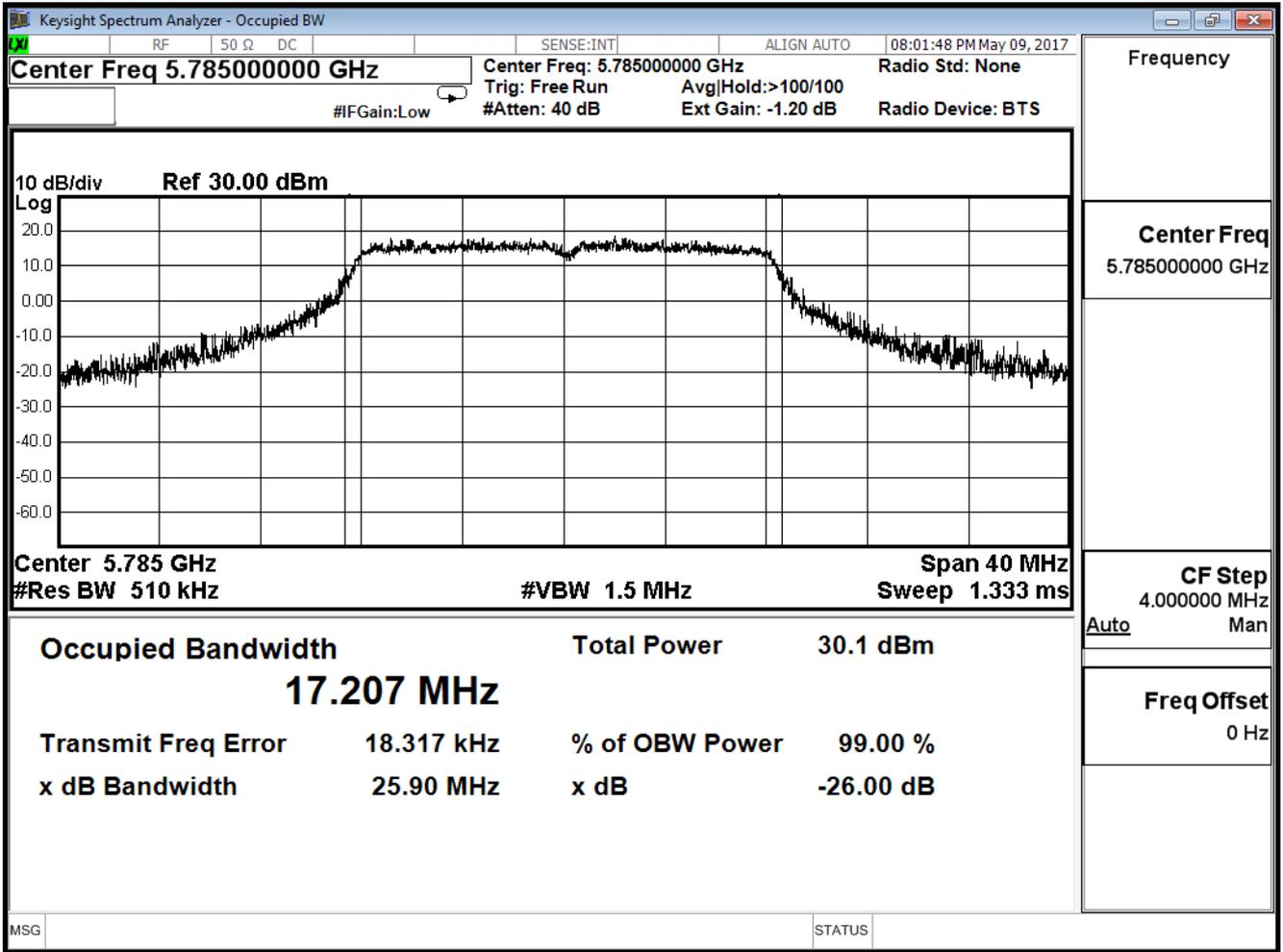
802.11a (ANT2)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
149	5745	17.307	--
157	5785	17.207	--
165	5825	17.403	--

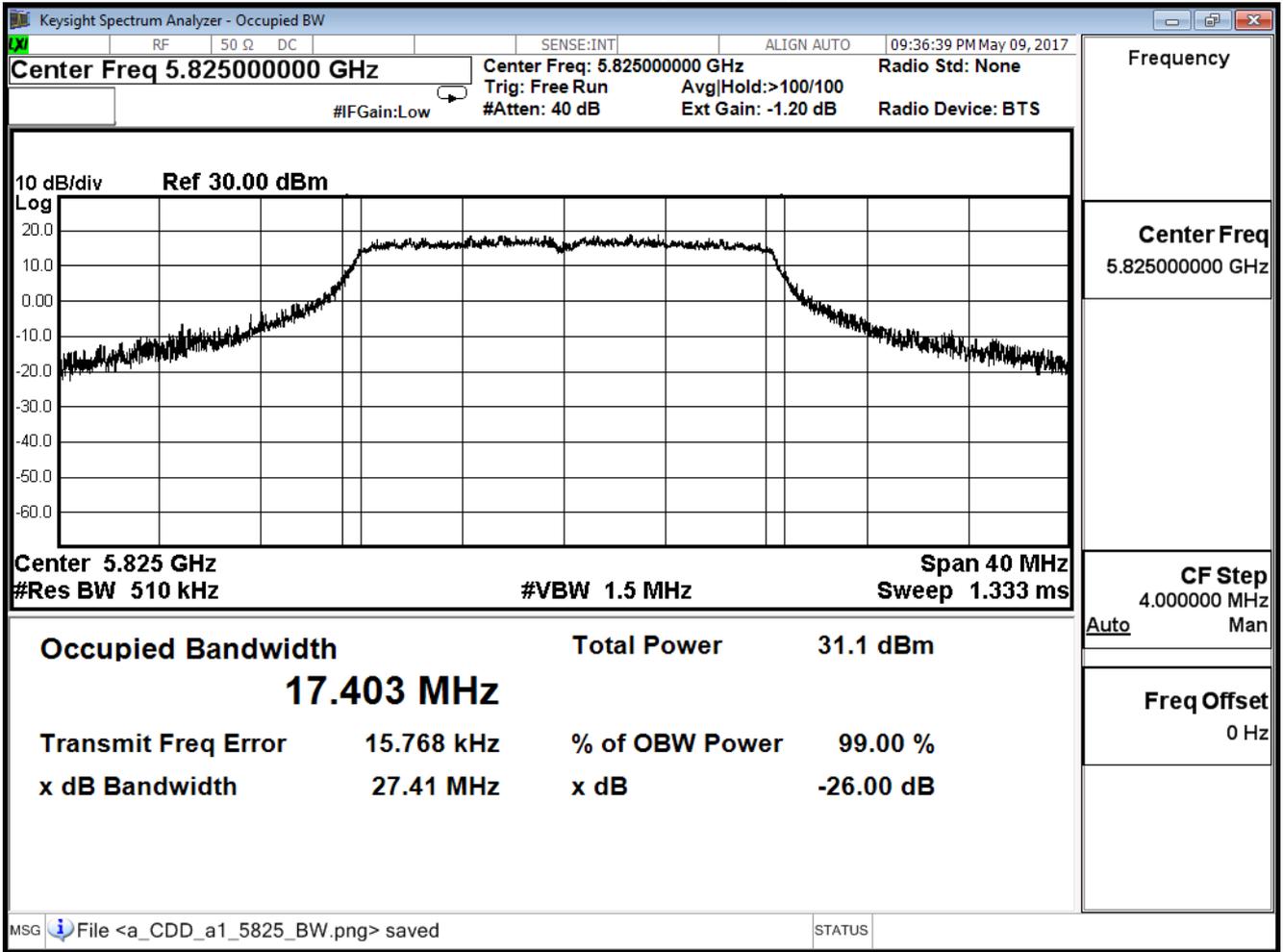
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

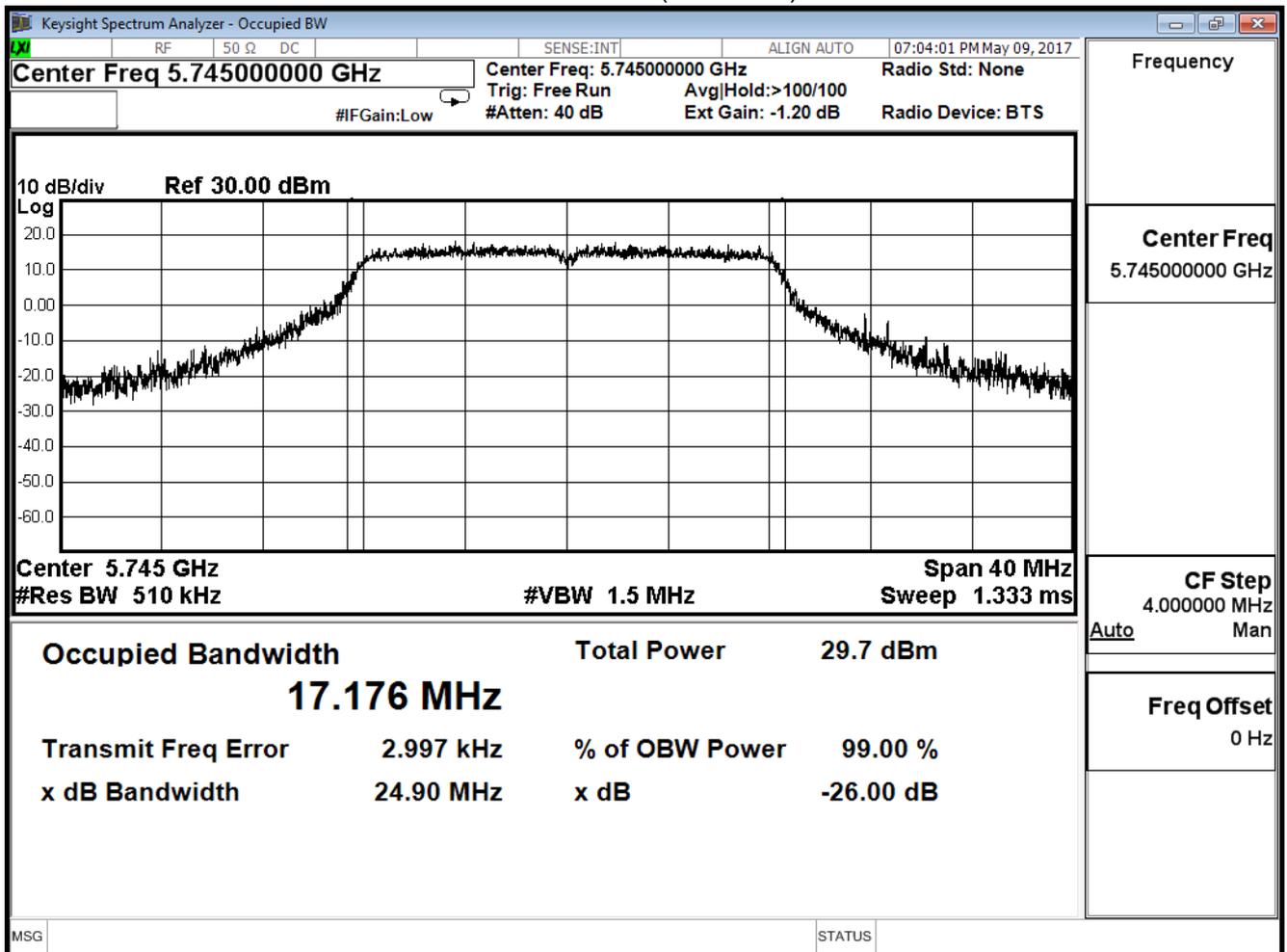


Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: TX CDD_ ADP: AD890326		
Date of Test	2017/05/09	Test Site	SR10-H

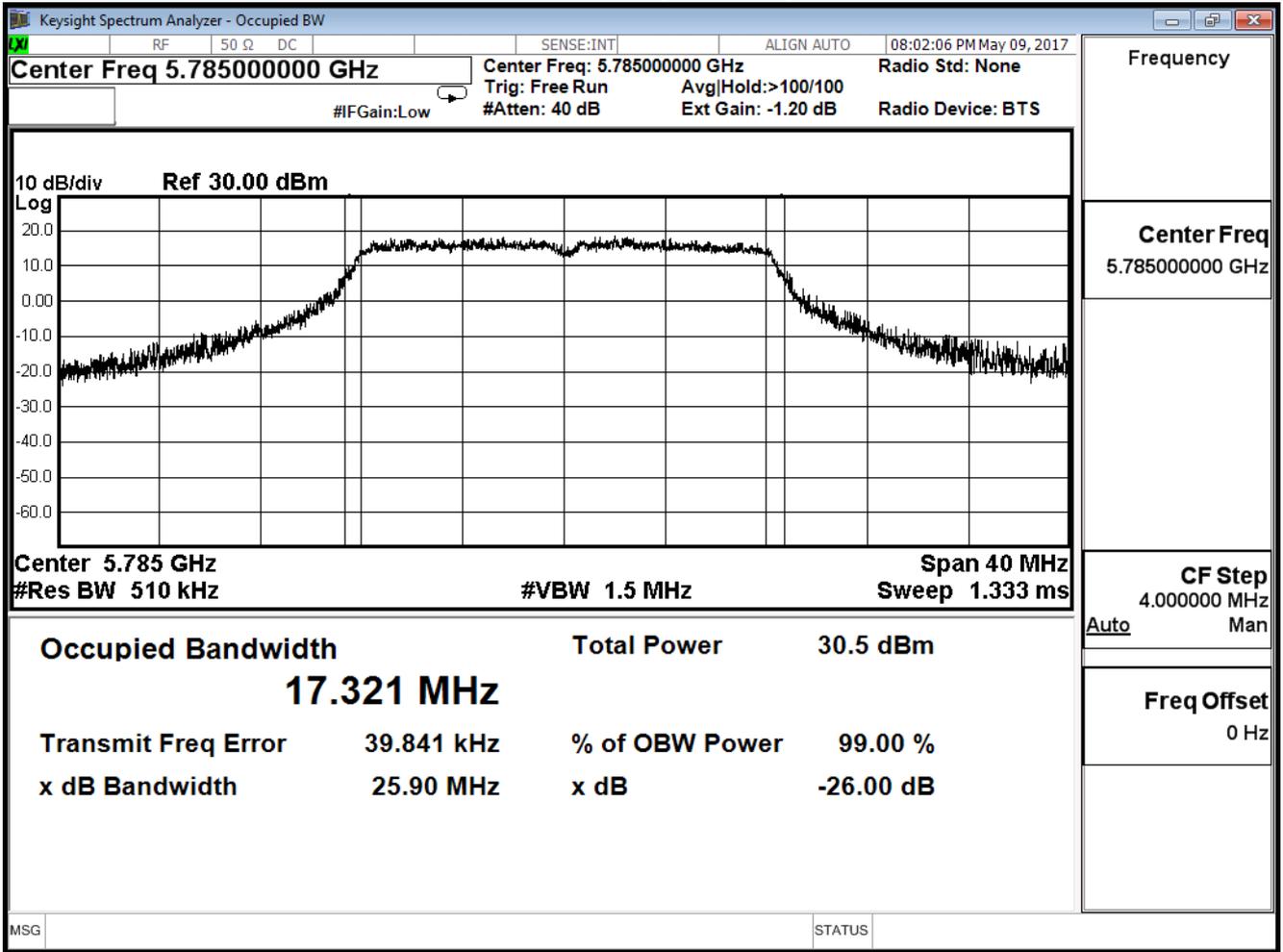
802.11a (ANT3)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
149	5745	17.176	--
157	5785	17.321	--
165	5825	17.350	--

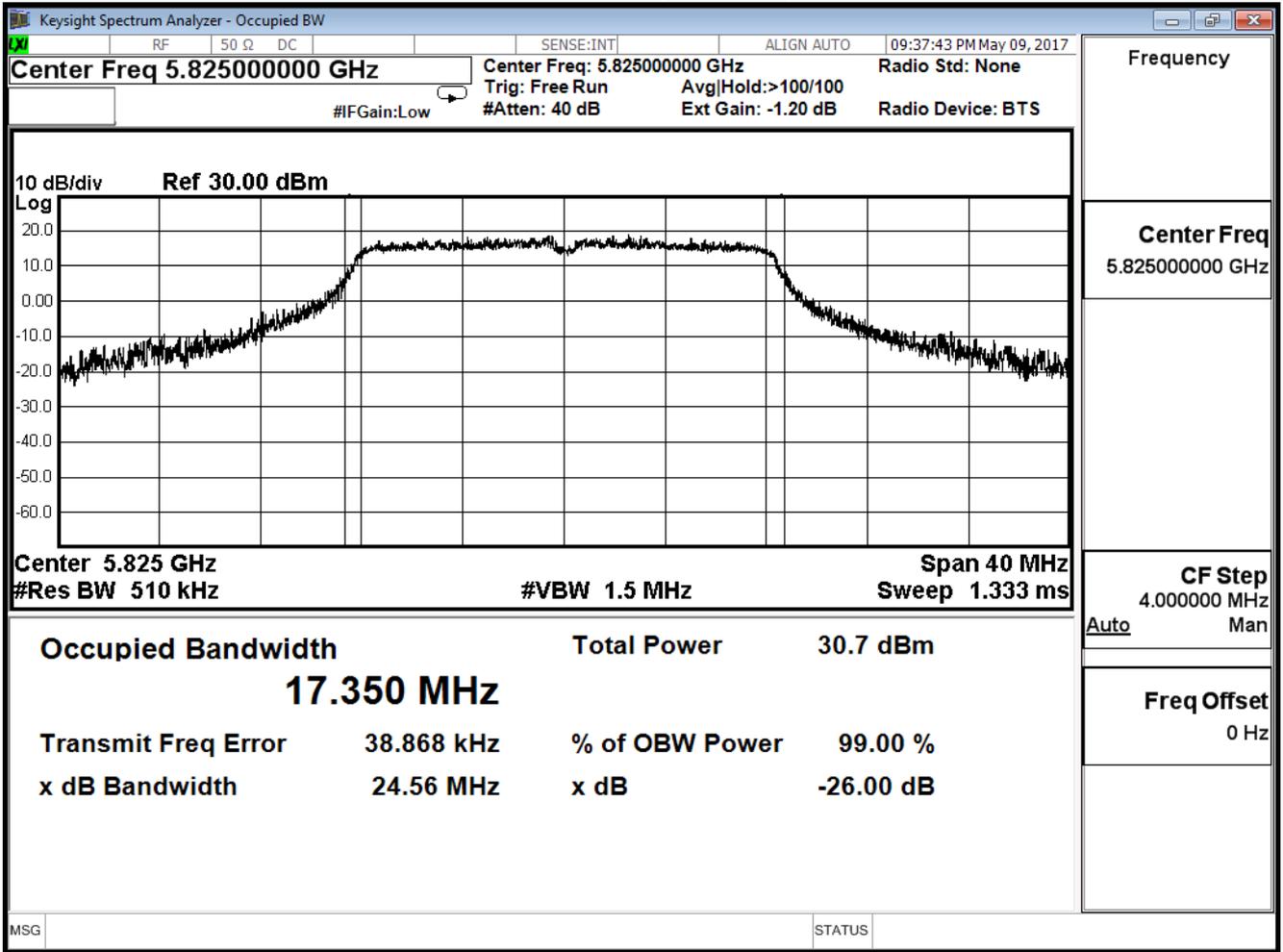
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

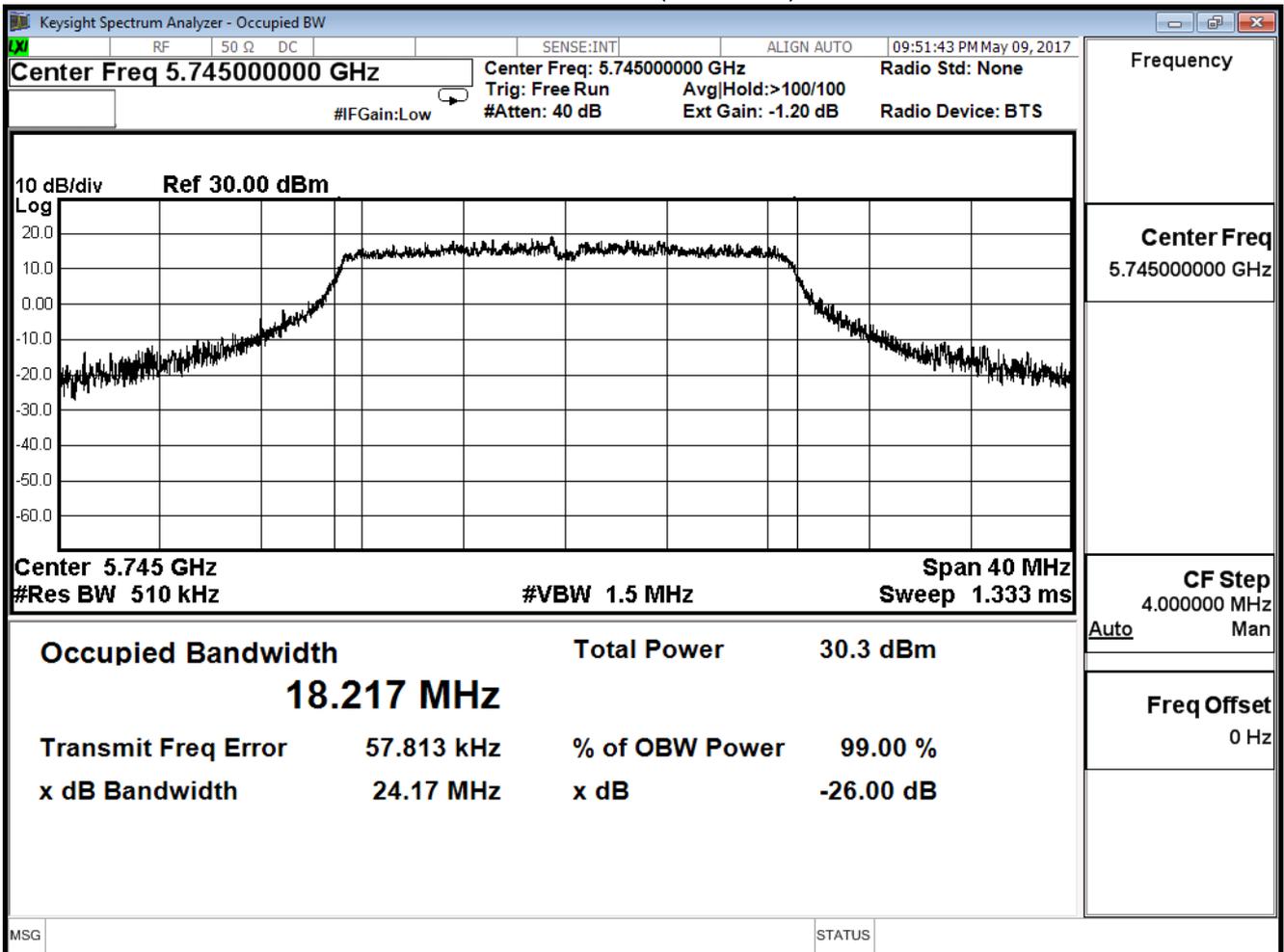


Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/09	Test Site	SR10-H

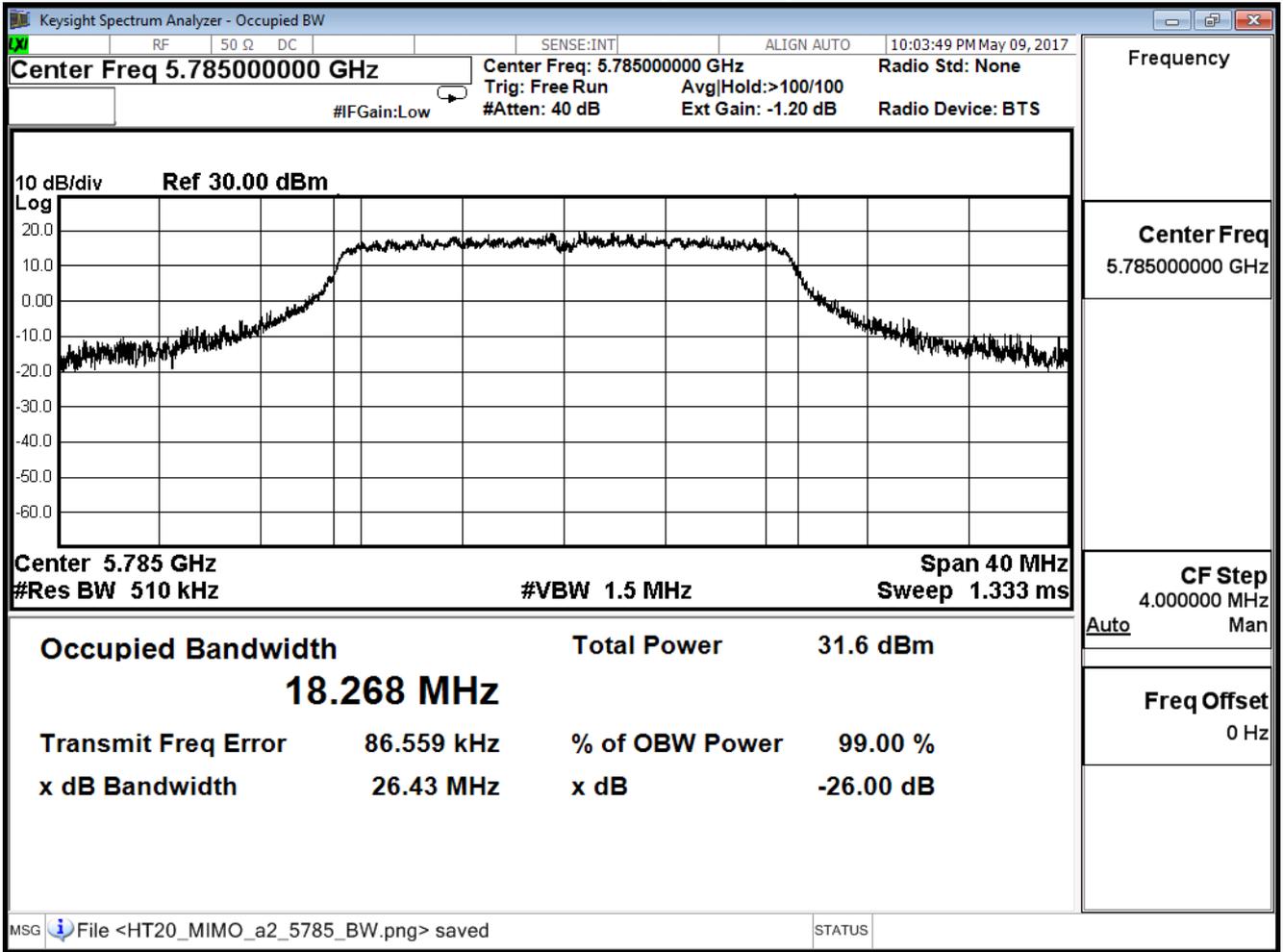
IEEE 802.11n(20MHz)(ANT0)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
149	5745	18.217	--
157	5785	18.268	--
165	5825	18.195	--

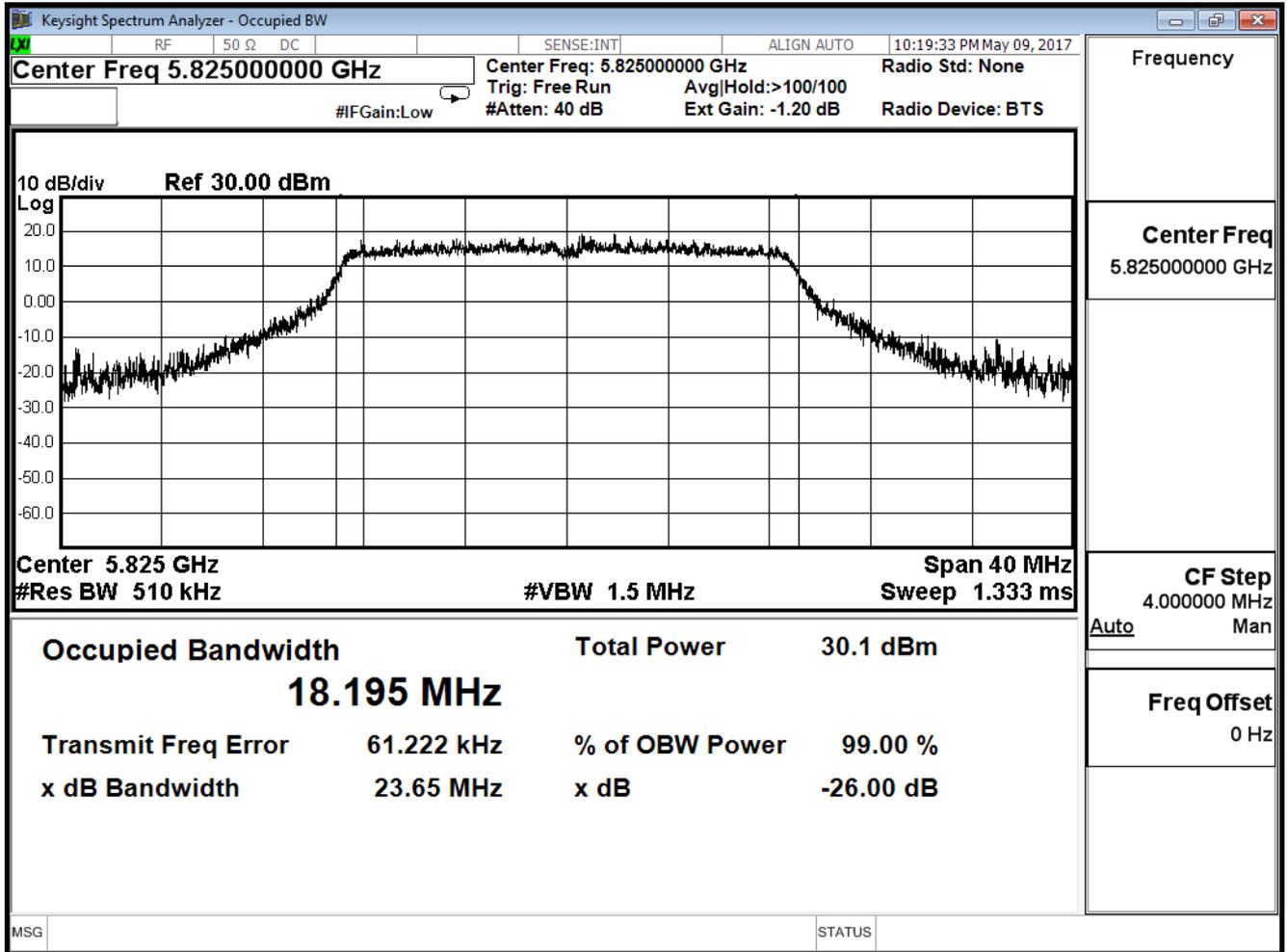
Channel 149 (5745MHz)



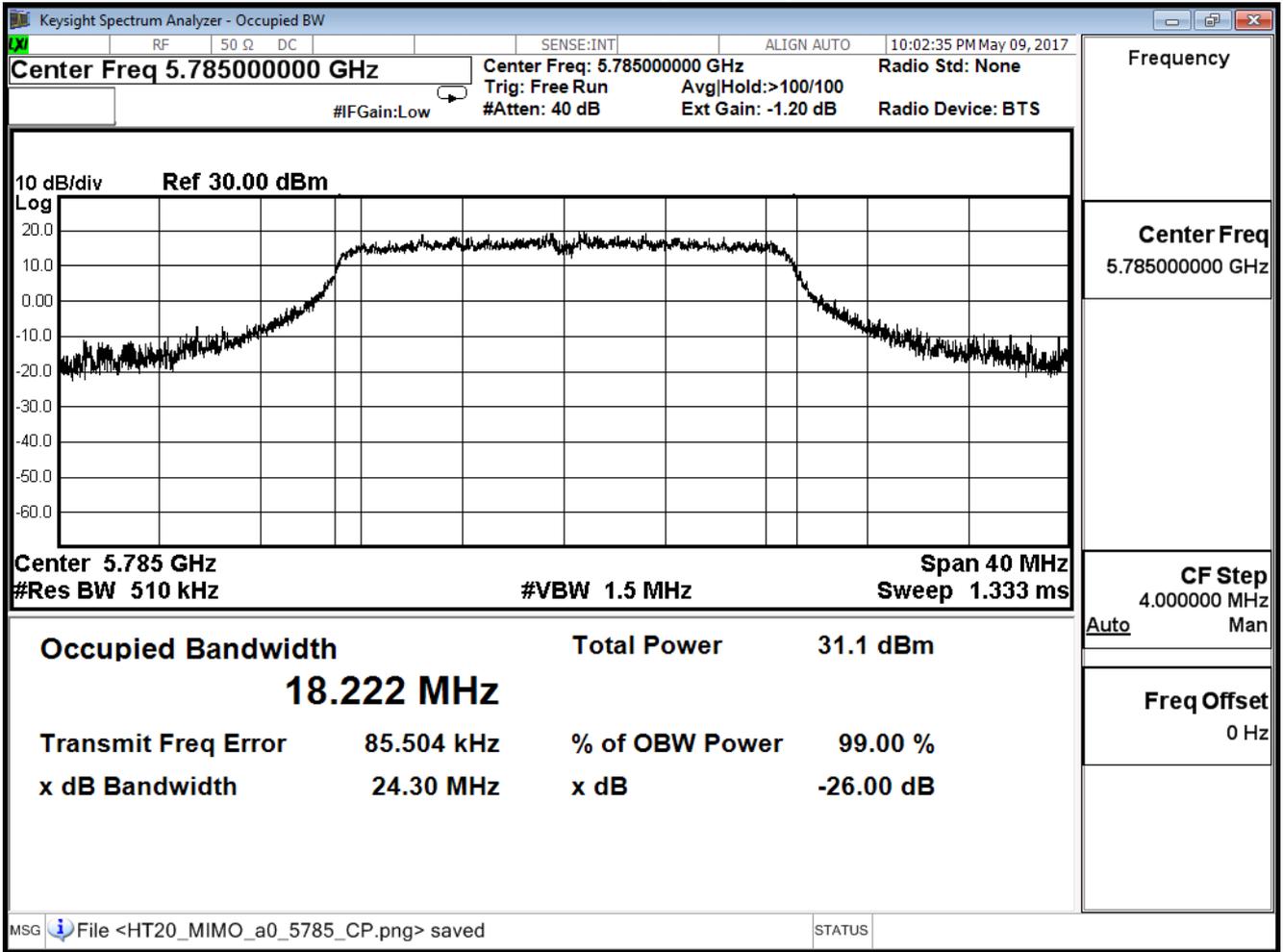
Channel 157 (5785MHz)



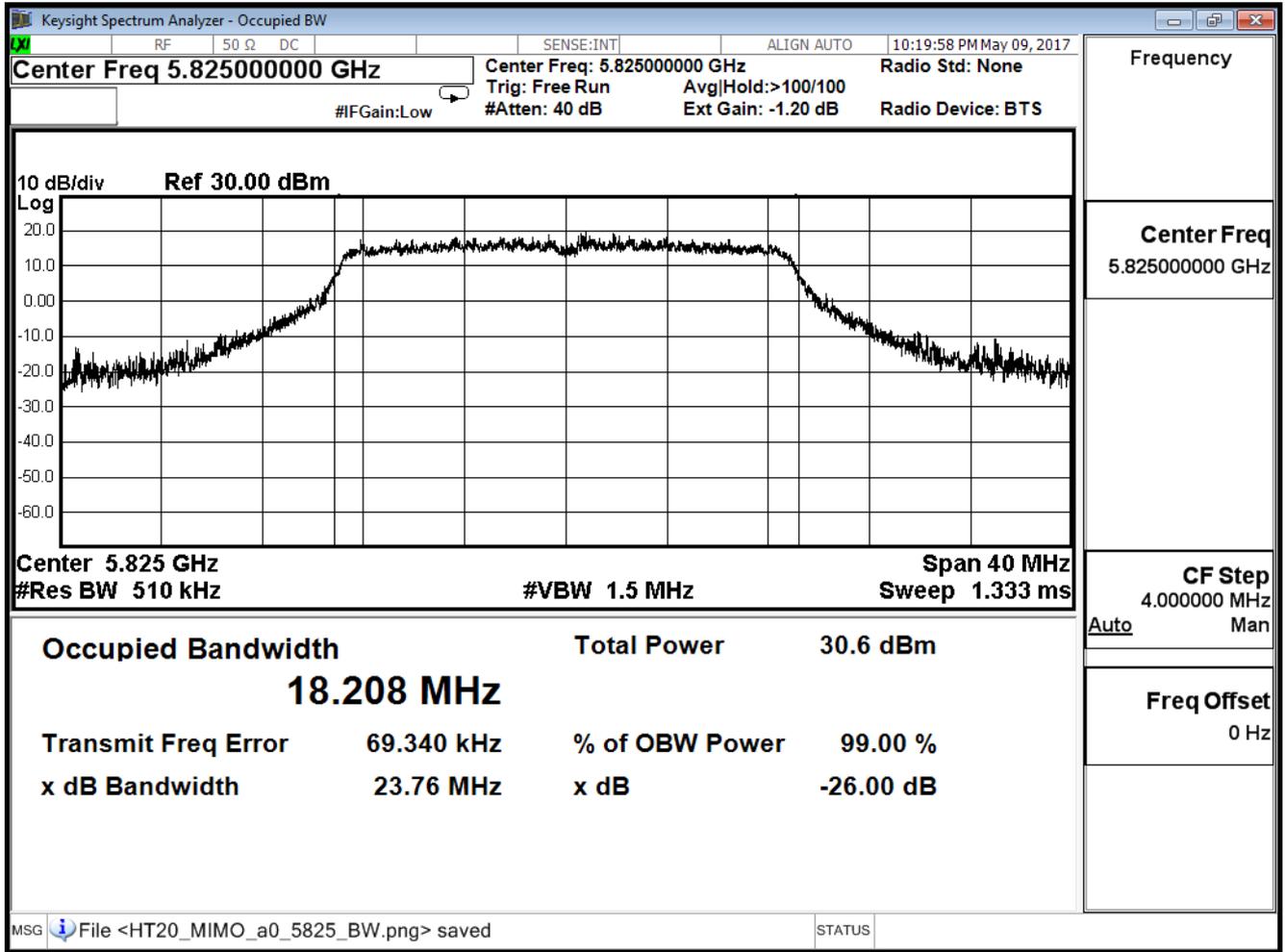
Channel 165 (5825MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

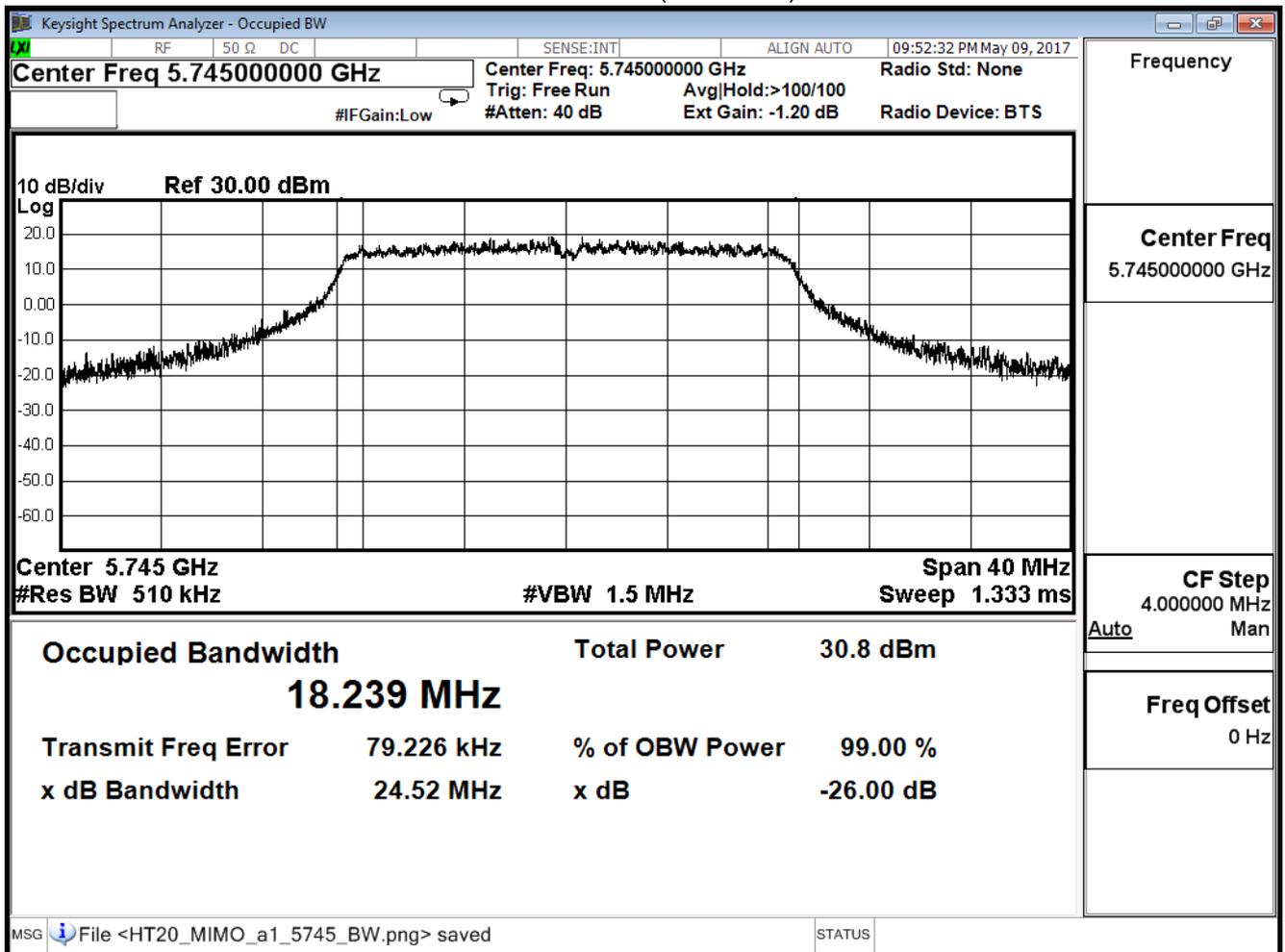


Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/09	Test Site	SR10-H

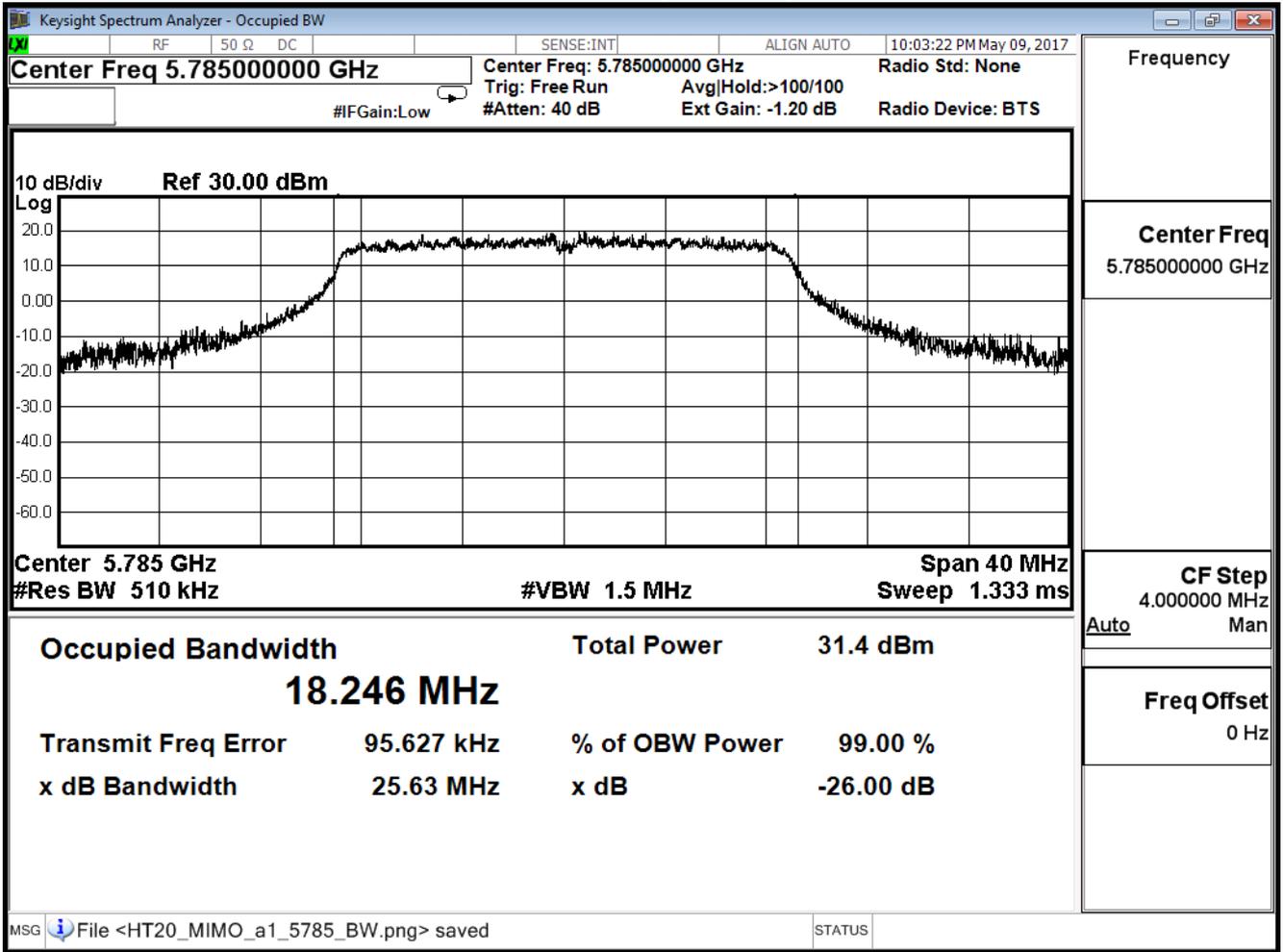
IEEE 802.11n(20MHz)(ANT2)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
149	5745	18.239	--
157	5785	18.246	--
165	5825	18.200	--

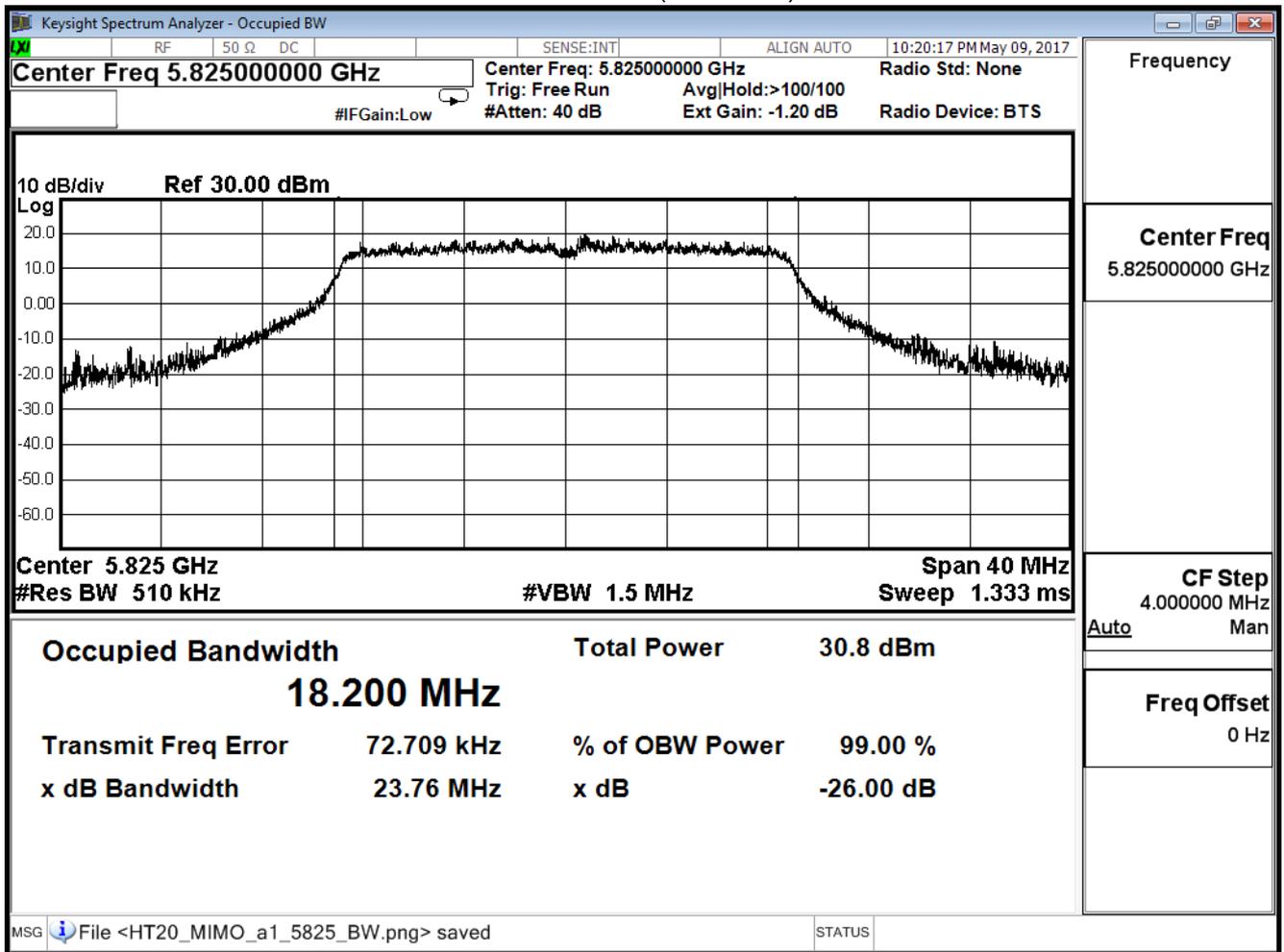
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

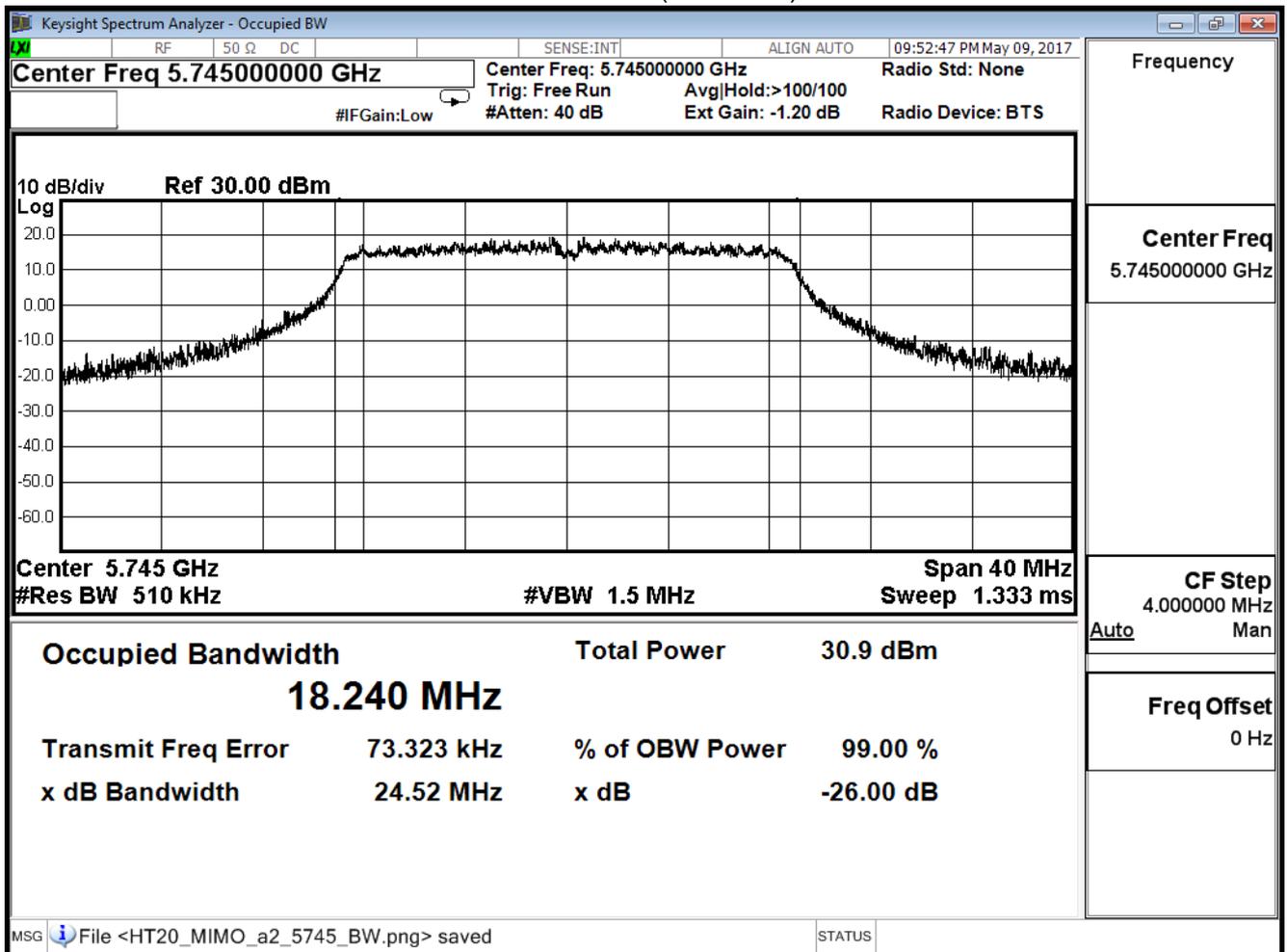


Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/09	Test Site	SR10-H

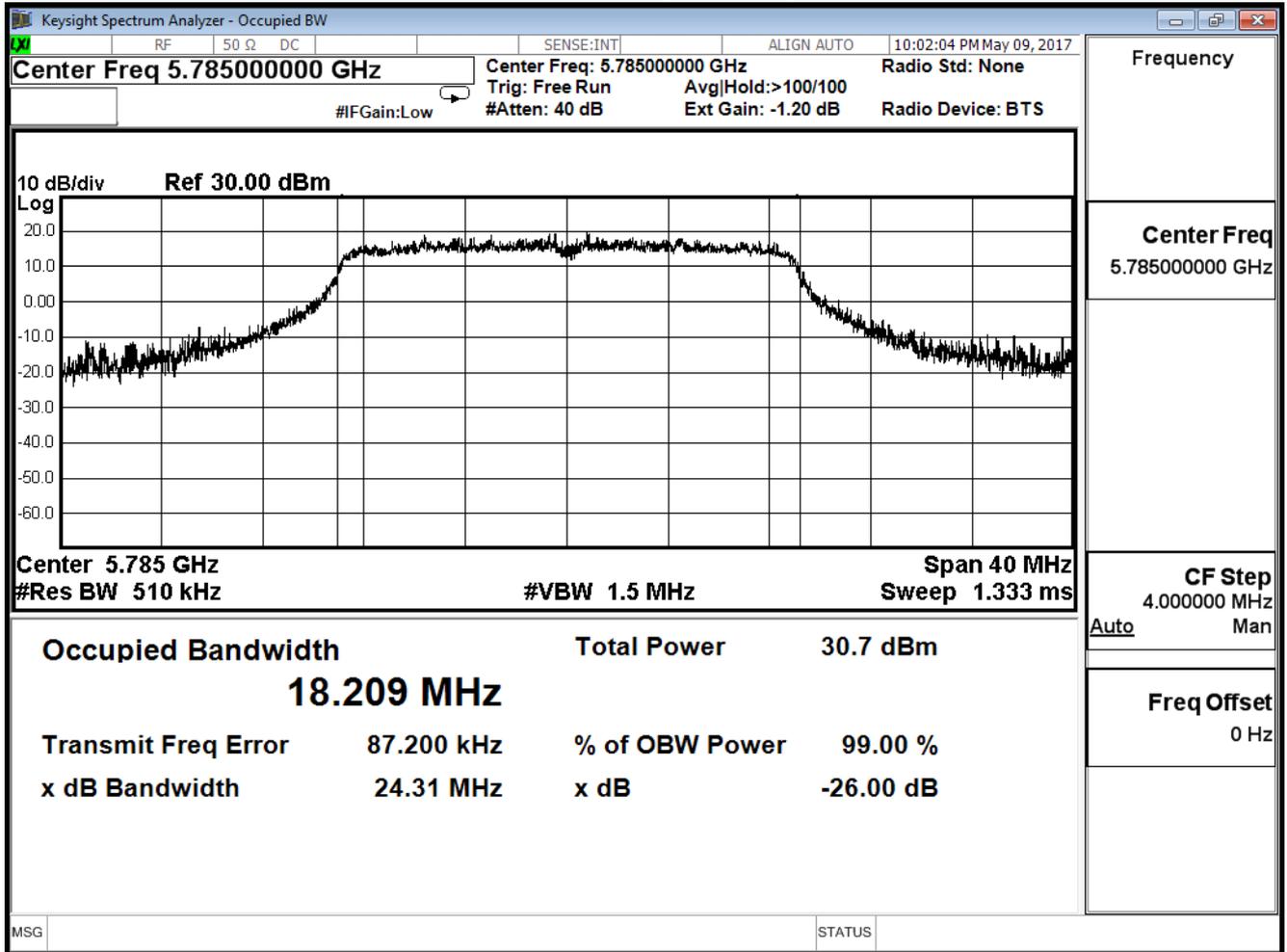
IEEE 802.11n(20MHz)(ANT3)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
149	5745	18.240	--
157	5785	18.209	--
165	5825	18.198	--

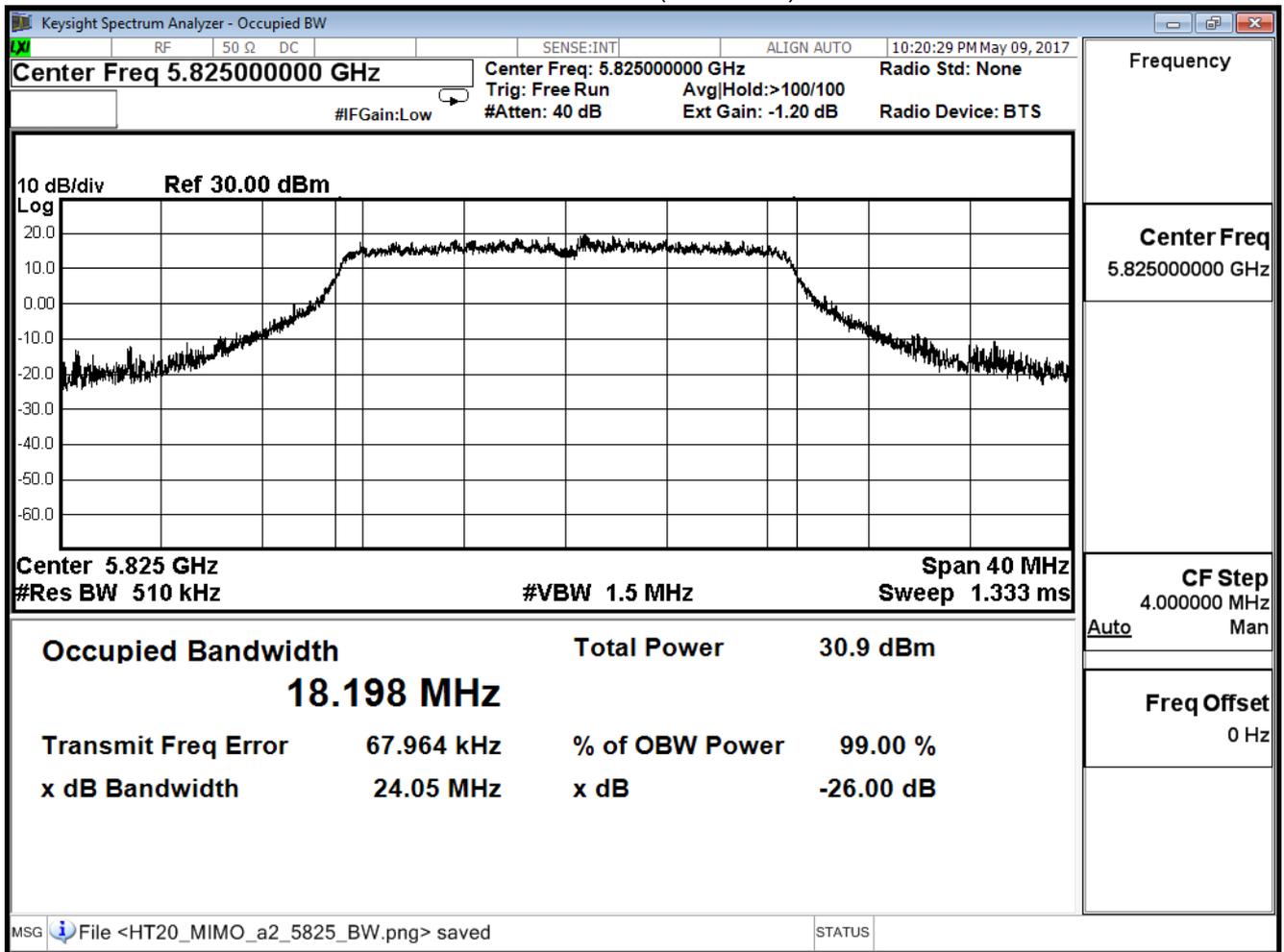
Channel 149 (5745MHz)



Channel 157 (5785MHz)



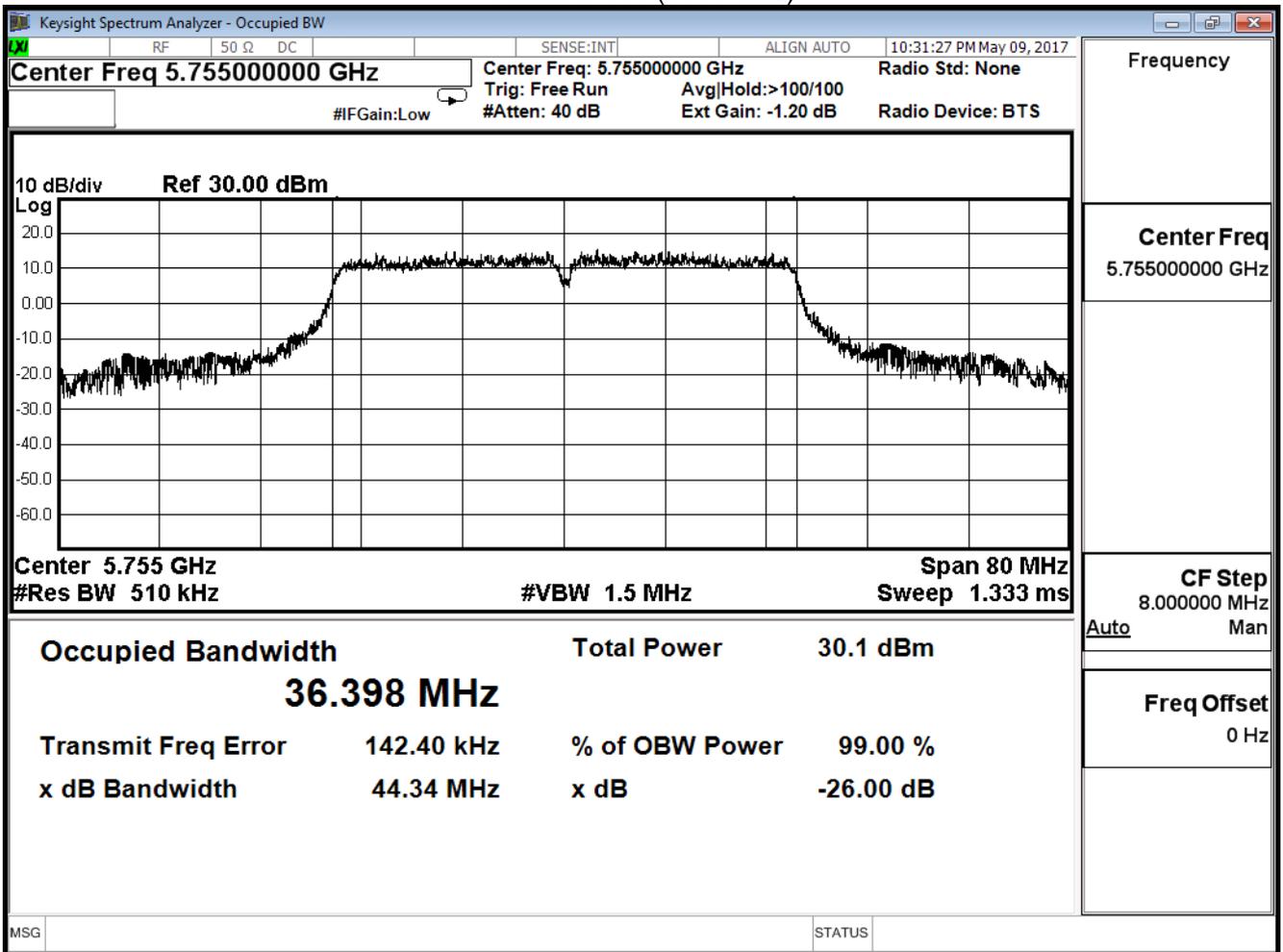
Channel 165 (5825MHz)



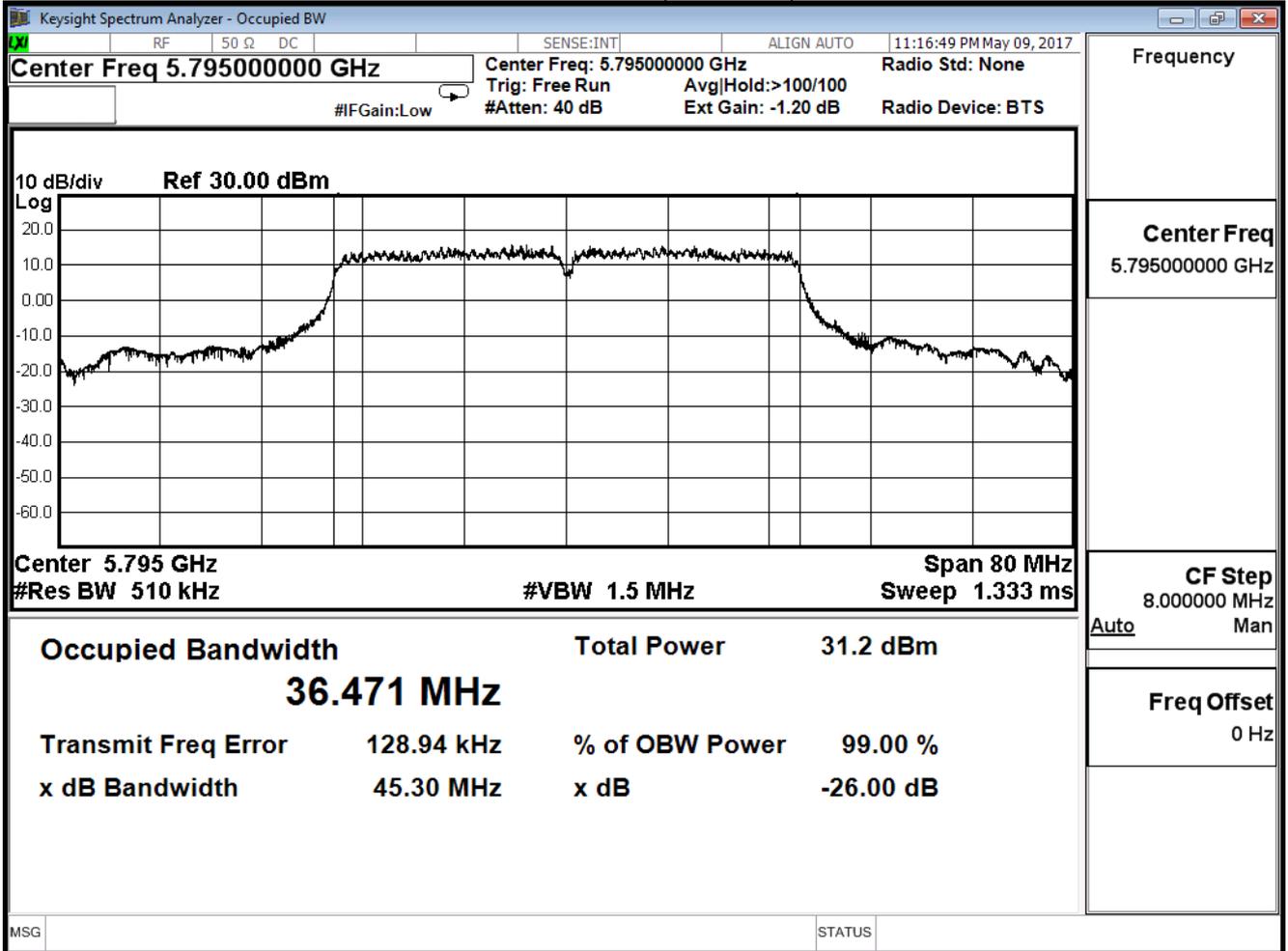
Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/09	Test Site	SR10-H

IEEE 802.11n(40MHz)(ANT0)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
151	5755	36.398	--
159	5795	36.471	--

Channel 151 (5755MHz)



Channel 159 (5795MHz)

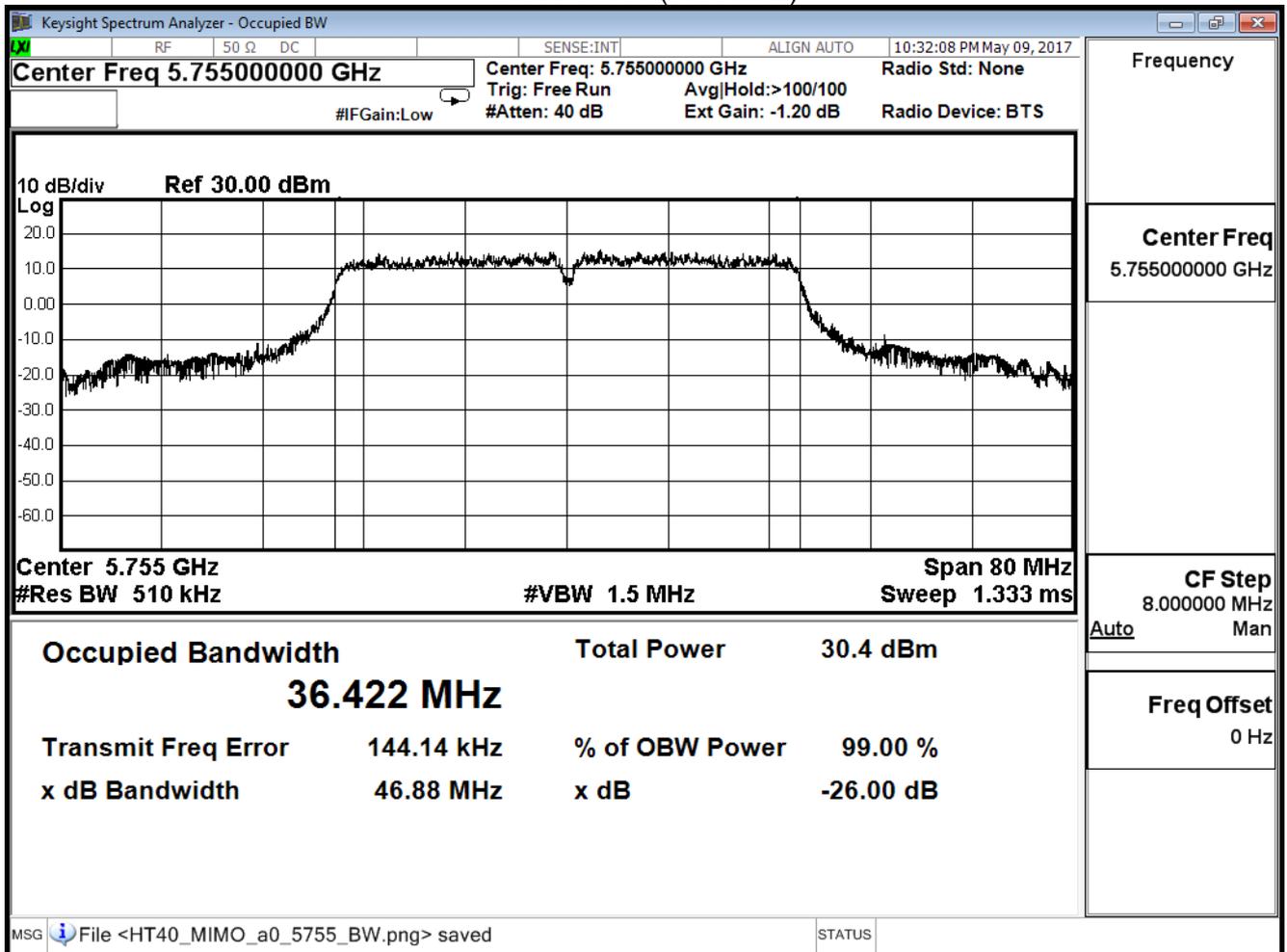


Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/09	Test Site	SR10-H

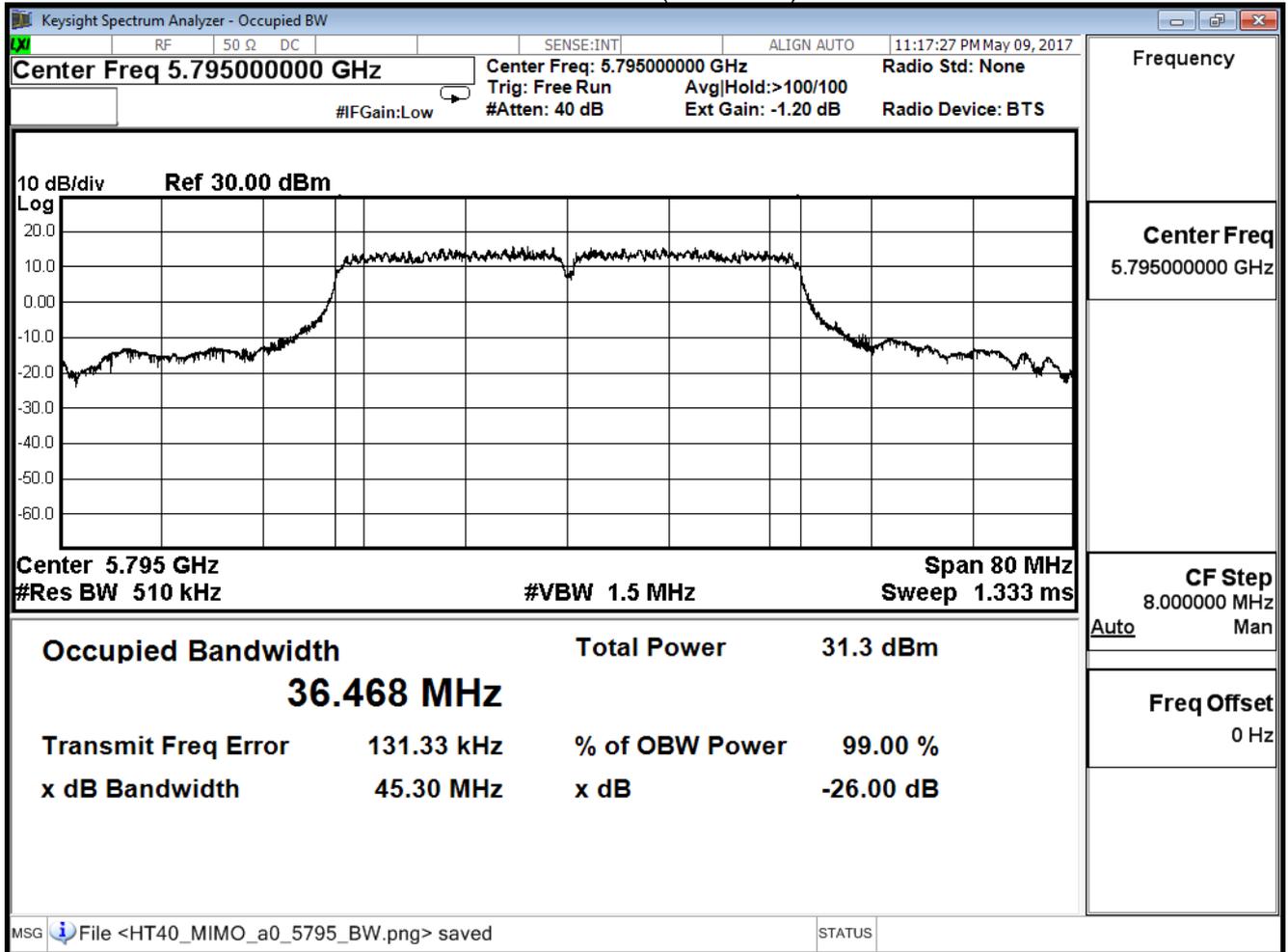
IEEE 802.11n(40MHz)(ANT1)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
151	5755	36.422	--
159	5795	36.468	--

Channel 151 (5755MHz)



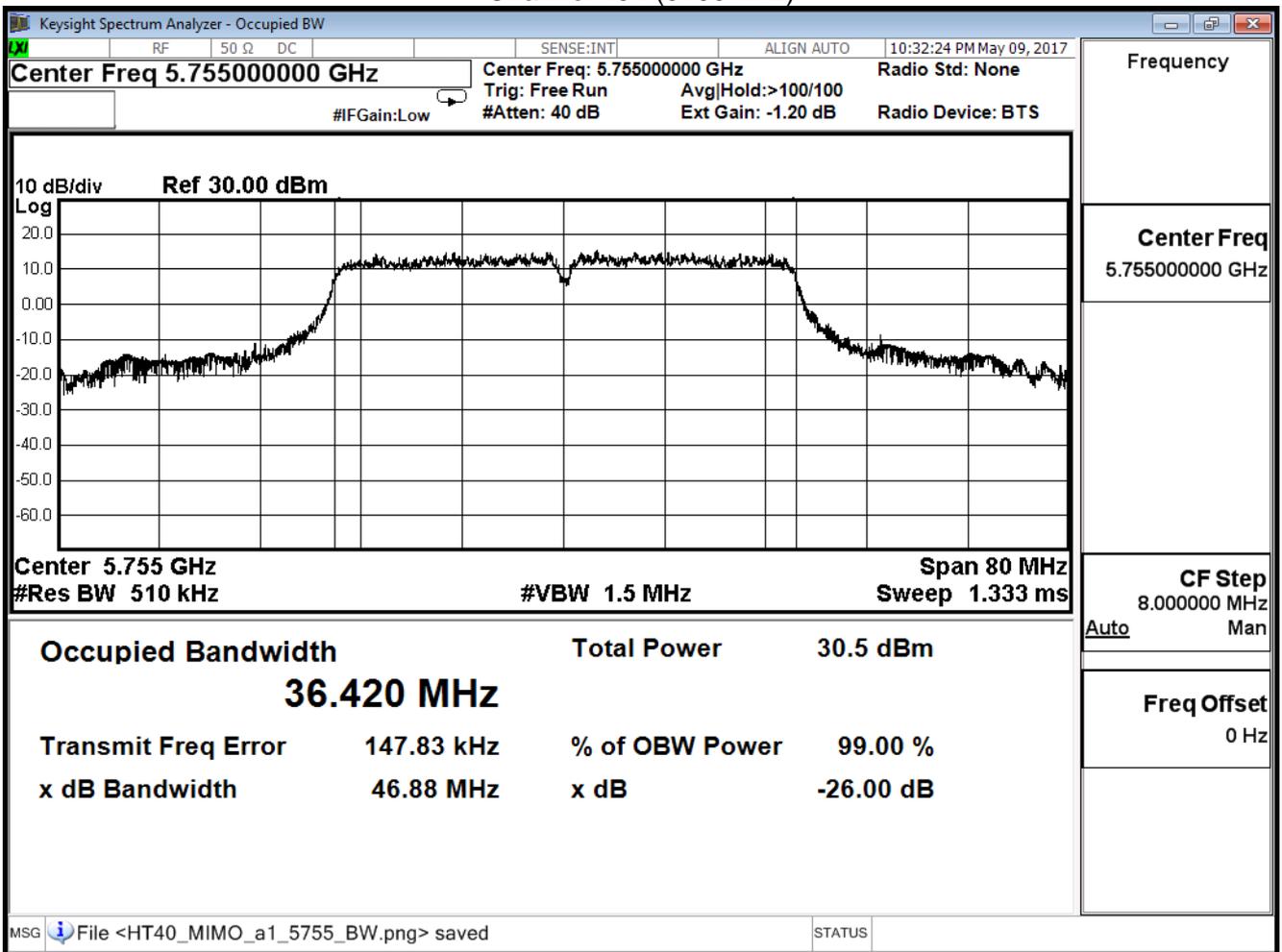
Channel 159 (5795MHz)



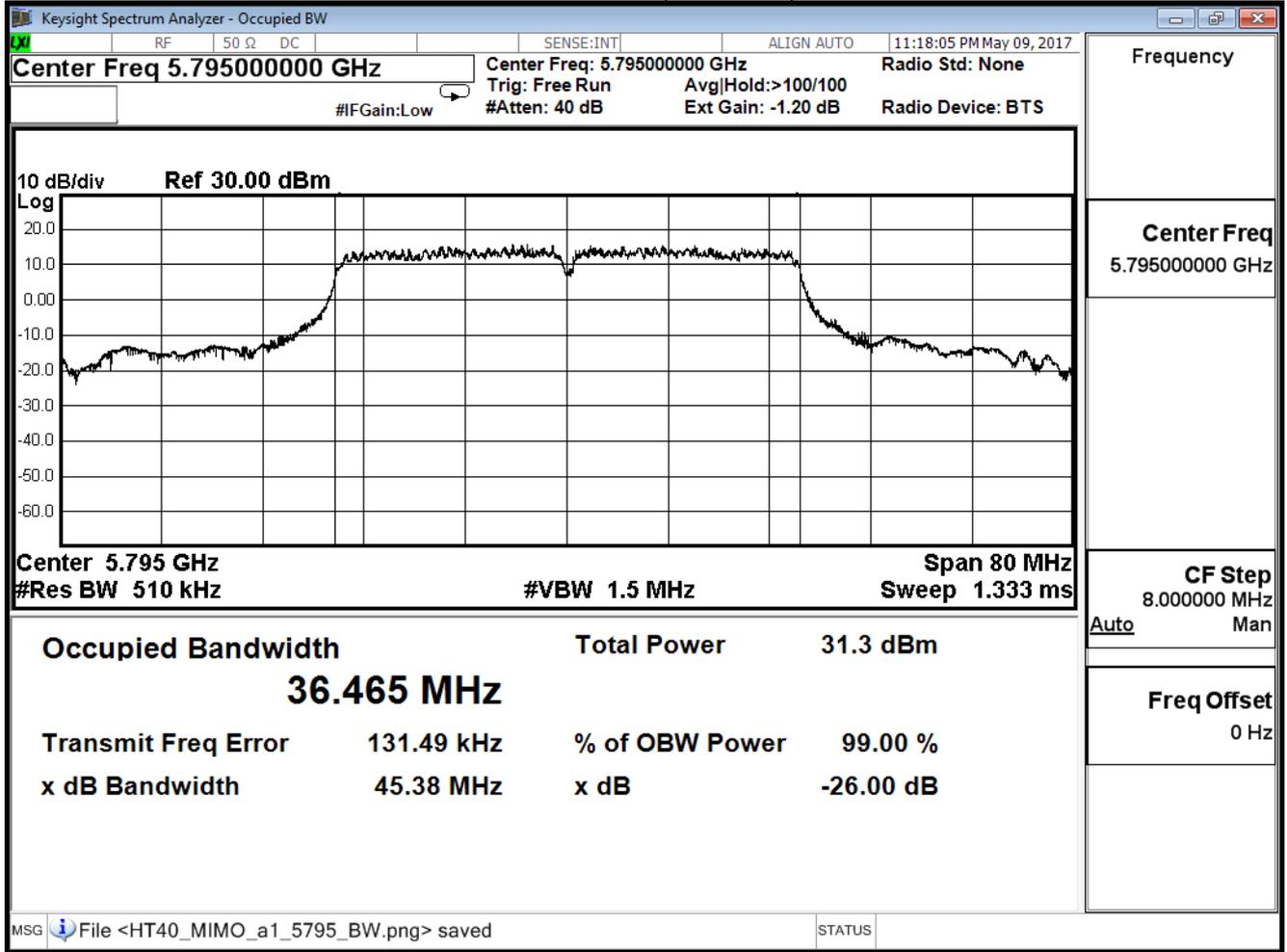
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: TX MIMO_ADP: AD890326		
Date of Test	2017/05/09	Test Site	SR10-H

IEEE 802.11n(40MHz)(ANT2)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
151	5755	36.420	--
159	5795	36.465	--

Channel 151 (5755MHz)



Channel 159 (5795MHz)

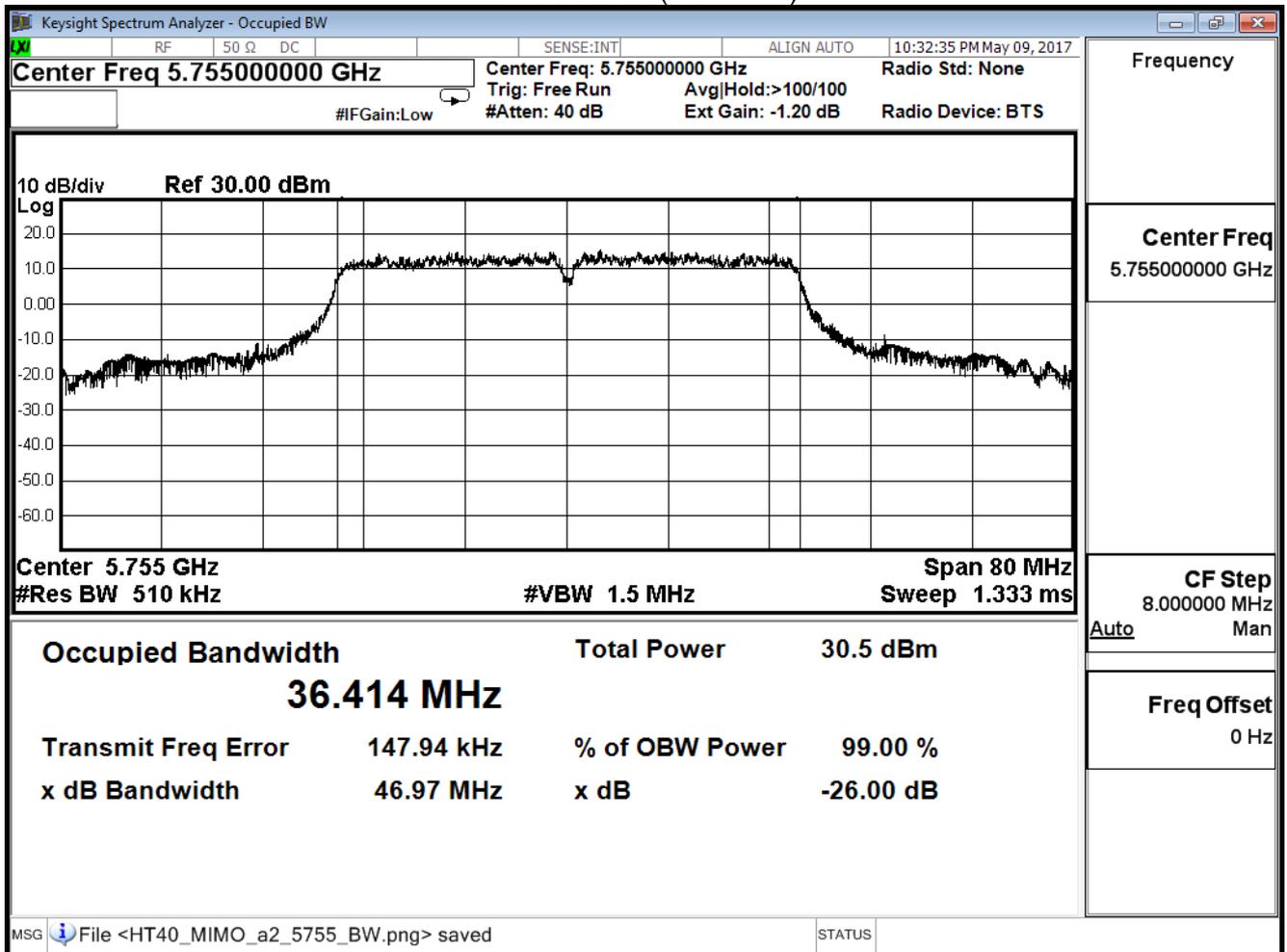


Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/09	Test Site	SR10-H

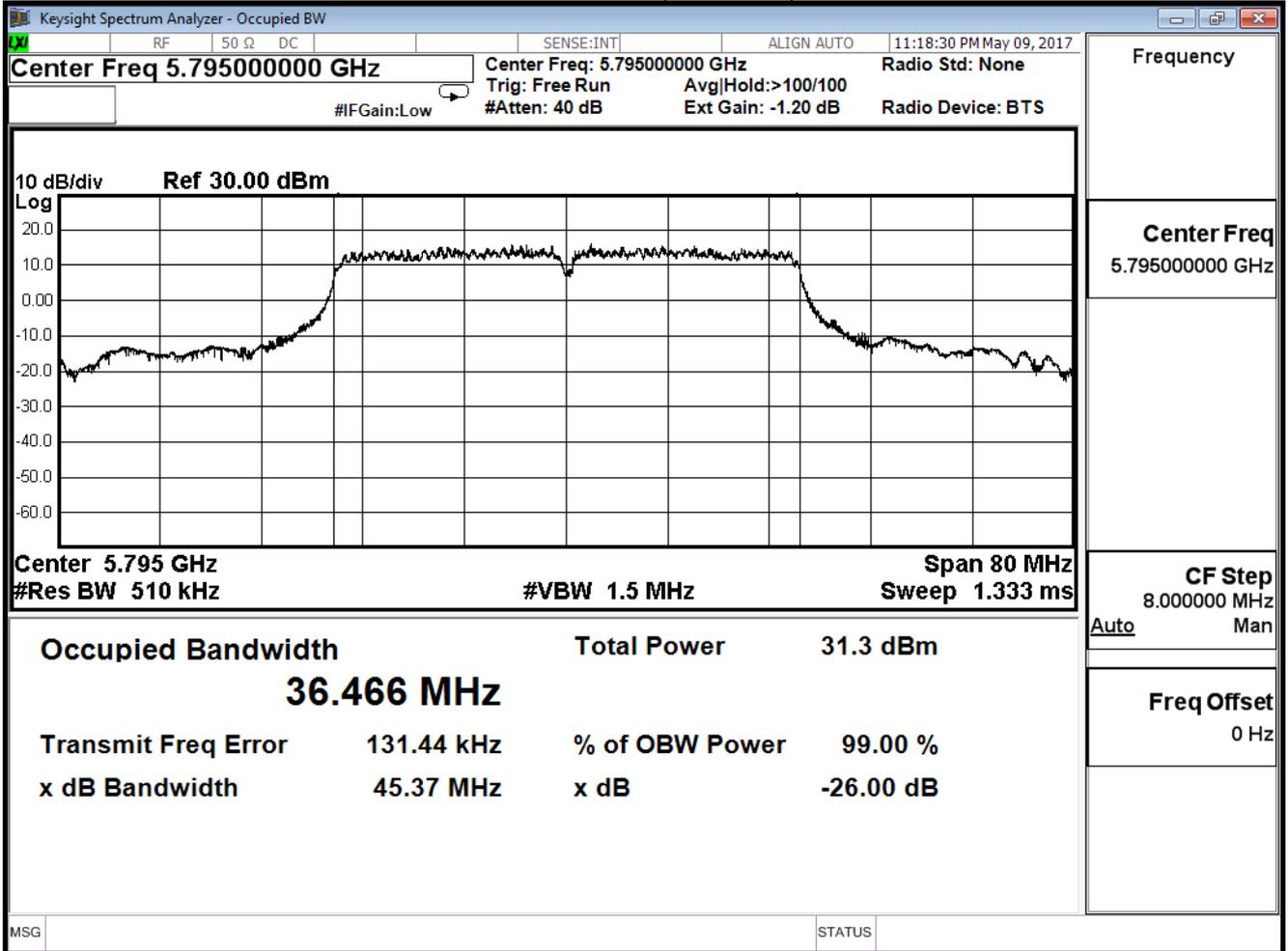
IEEE 802.11n(40MHz)(ANT3)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
151	5755	36.414	--
159	5795	36.466	--

Channel 151 (5755MHz)



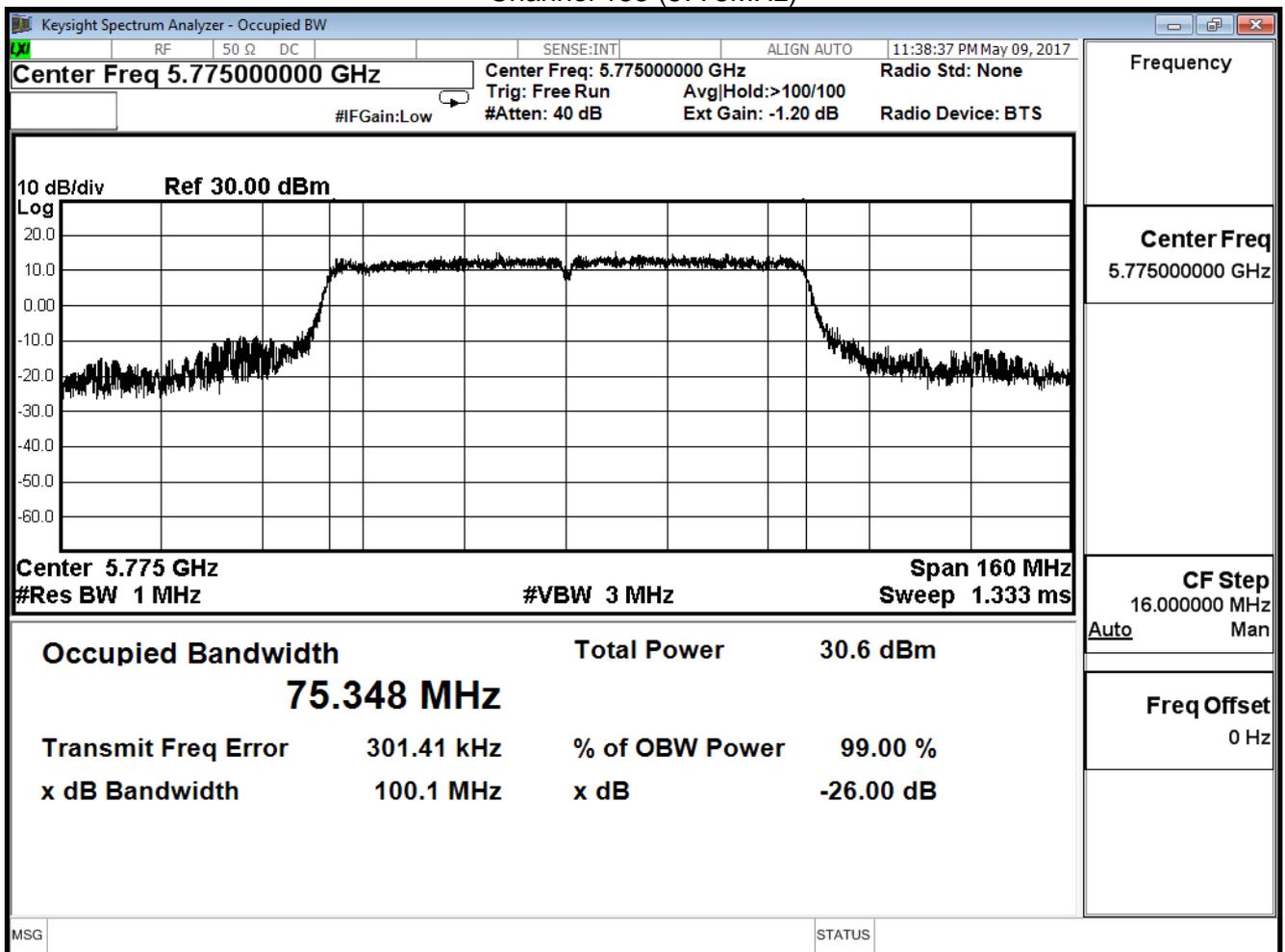
Channel 159 (5795MHz)



Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/09	Test Site	SR10-H

IEEE802.11ac(80MHz)(ANT0)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
155	5775	75.348	--

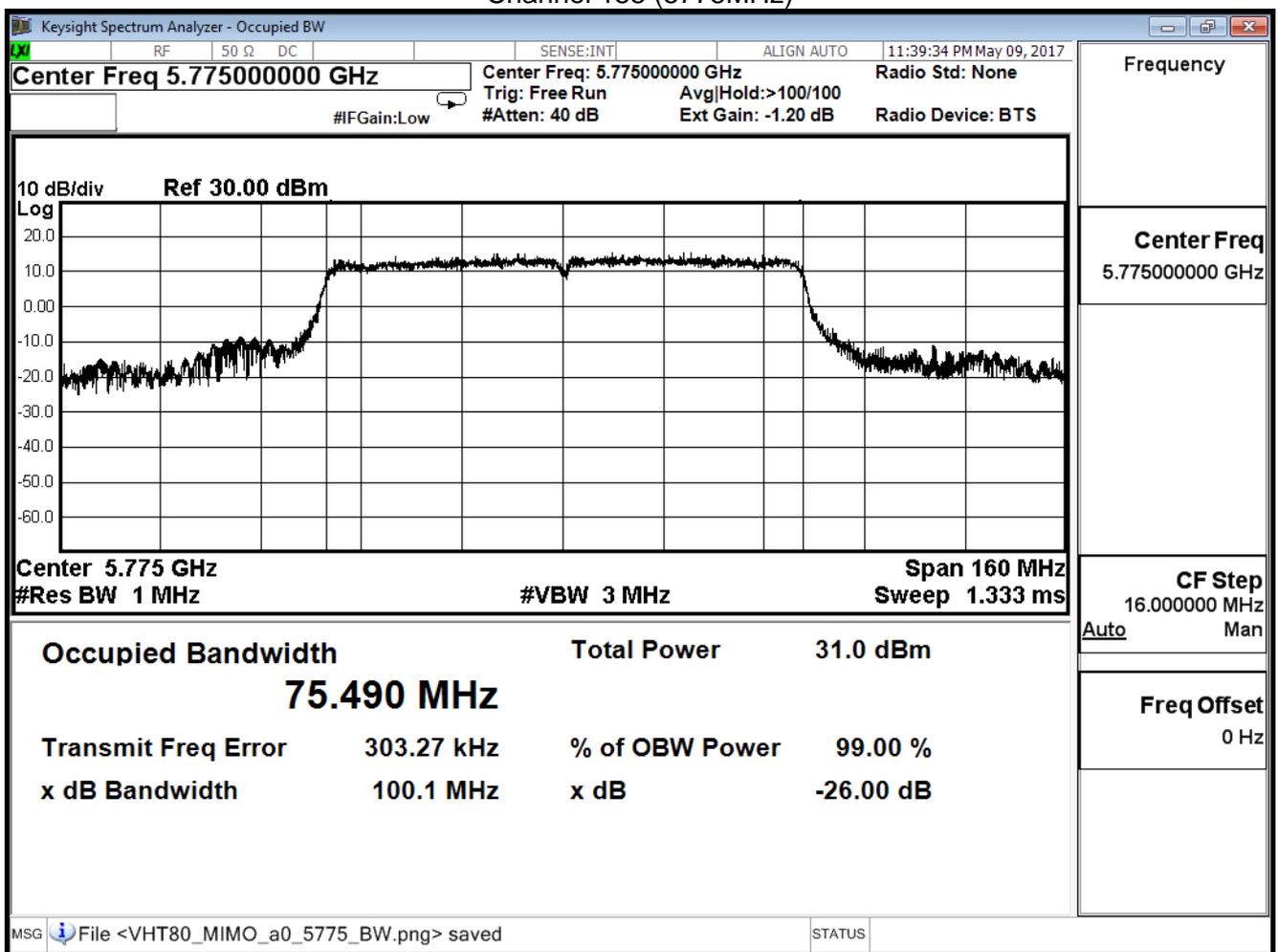
Channel 155 (5775MHz)



Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/09	Test Site	SR10-H

IEEE802.11ac(80MHz)(ANT1)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
155	5775	75.49	--

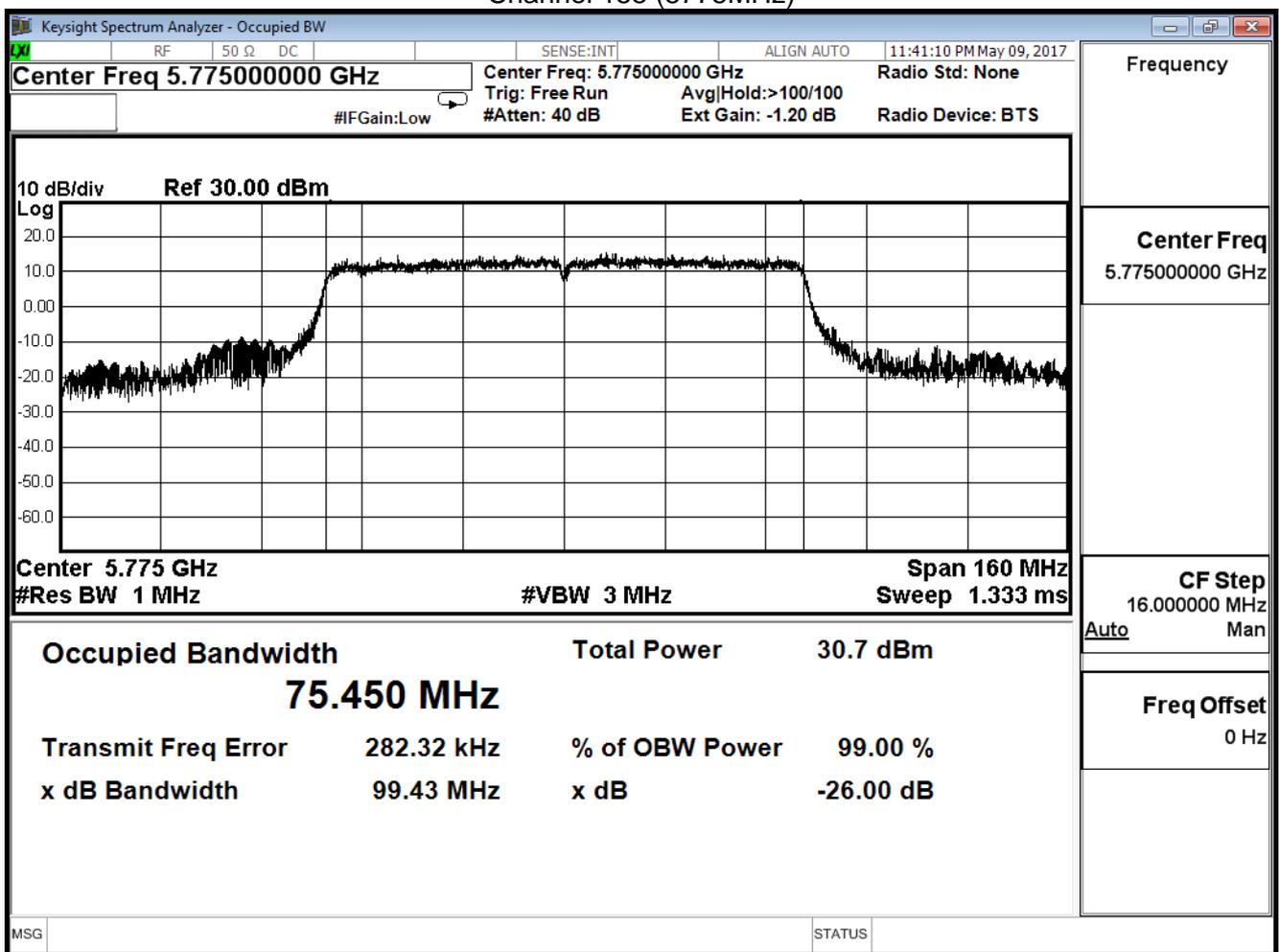
Channel 155 (5775MHz)



Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/09	Test Site	SR10-H

IEEE802.11ac(80MHz)(ANT2)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
155	5775	75.450	--

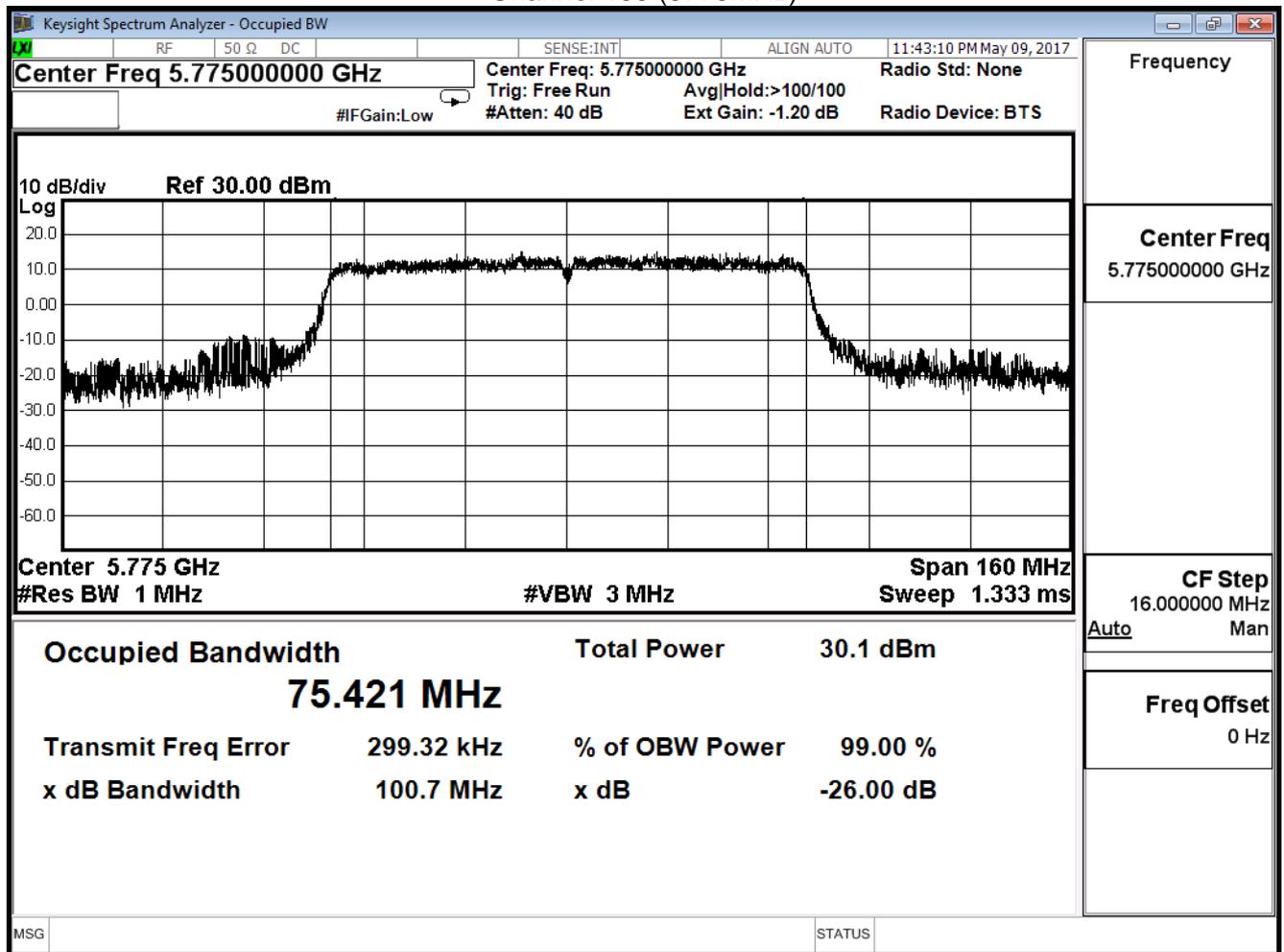
Channel 155 (5775MHz)



Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/09	Test Site	SR10-H

IEEE802.11ac(80MHz)(ANT3)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
155	5775	75.421	--

Channel 155 (5775MHz)

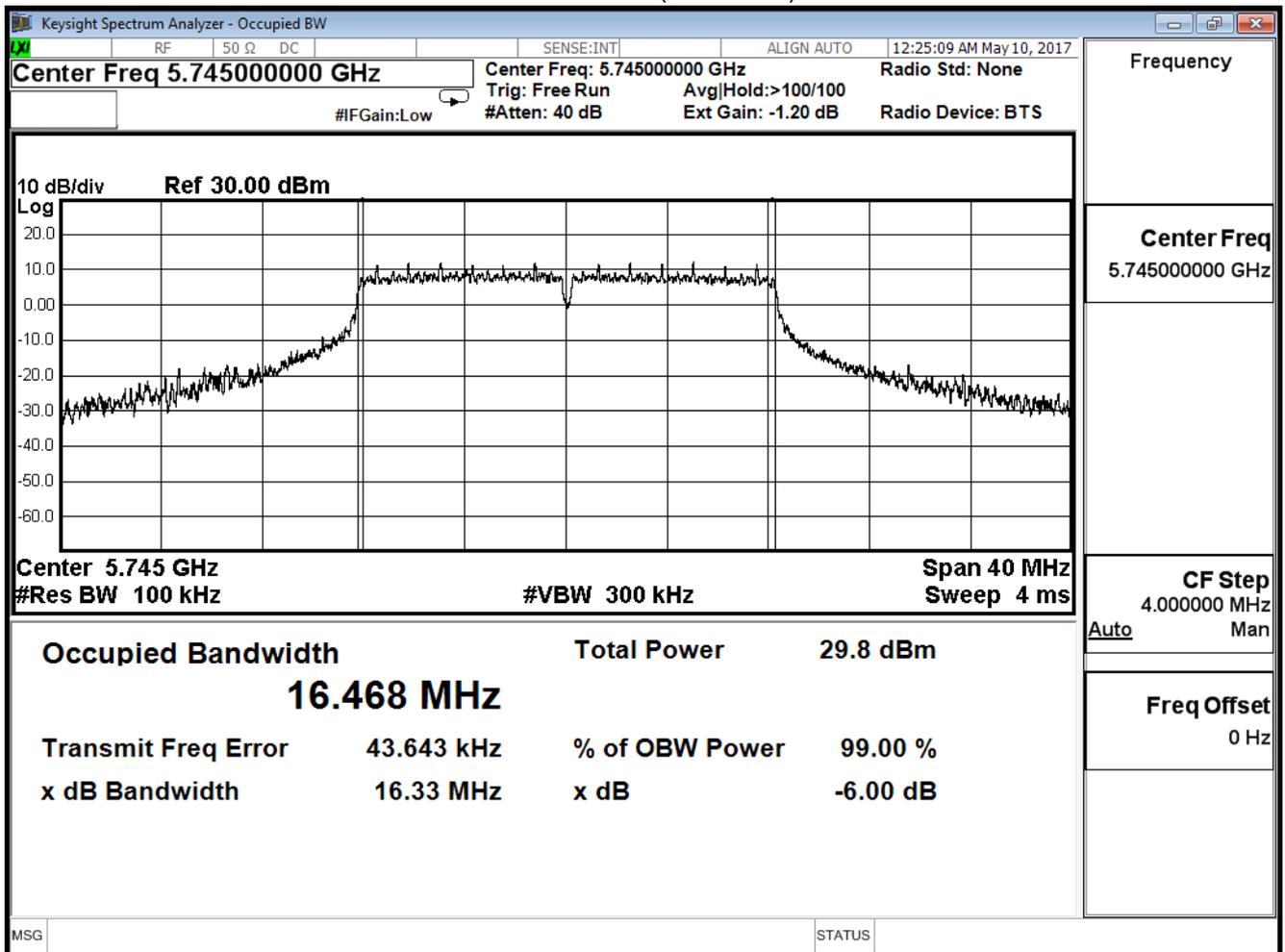


Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 1: TX CDD_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

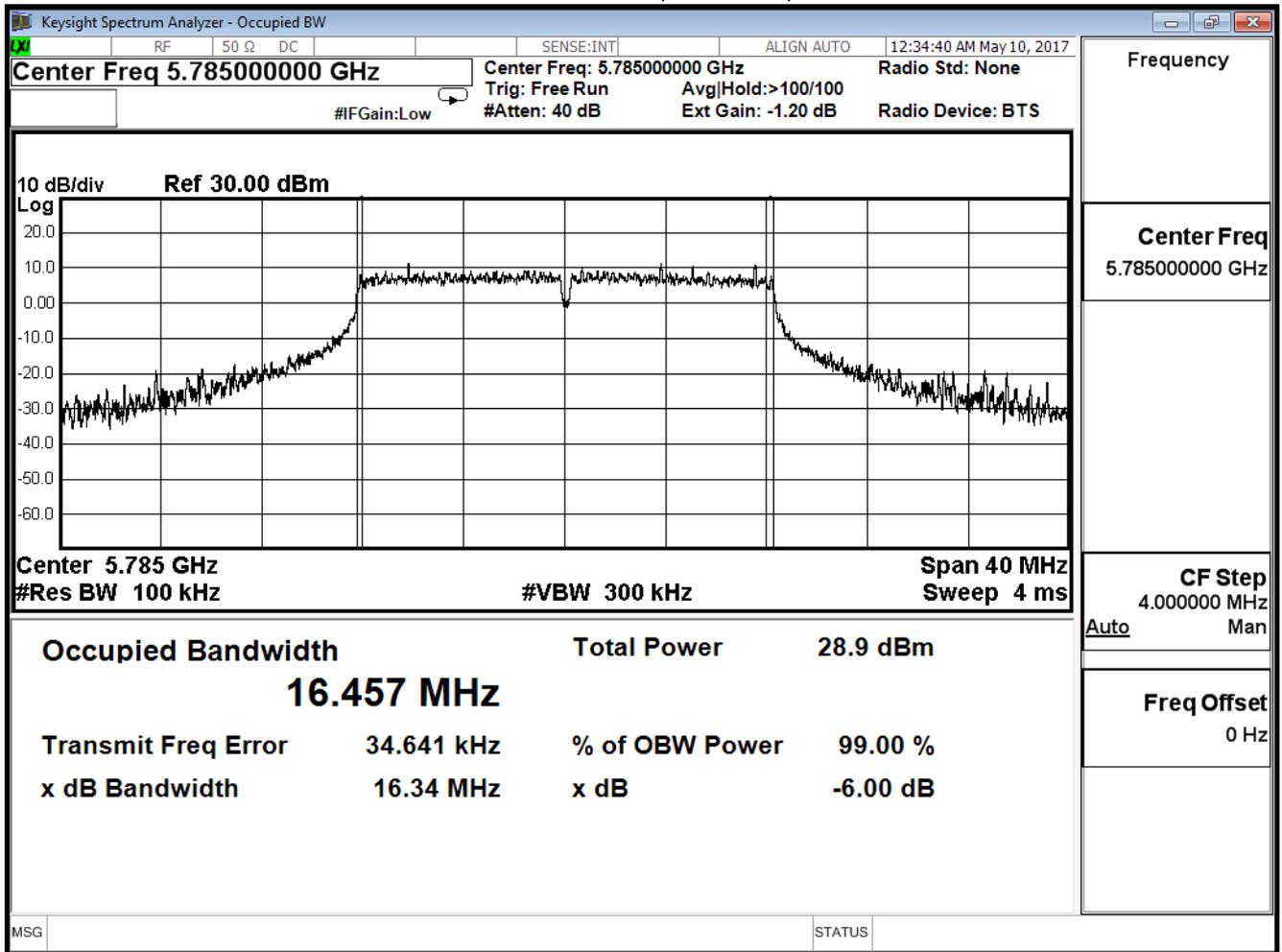
802.11a (ANT0)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
149	5745	16.33	>0.5
157	5785	16.34	>0.5
165	5825	16.35	>0.5

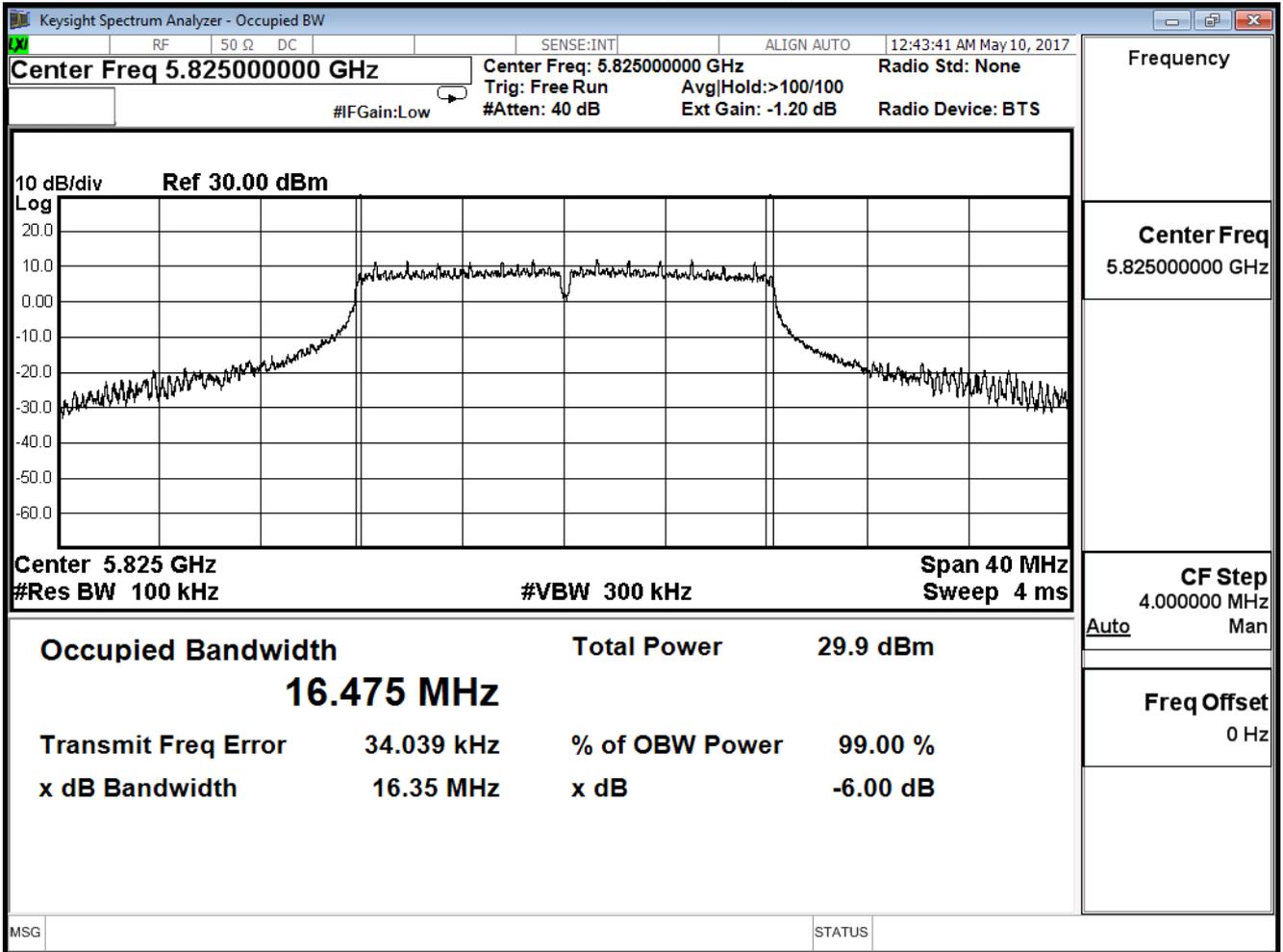
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

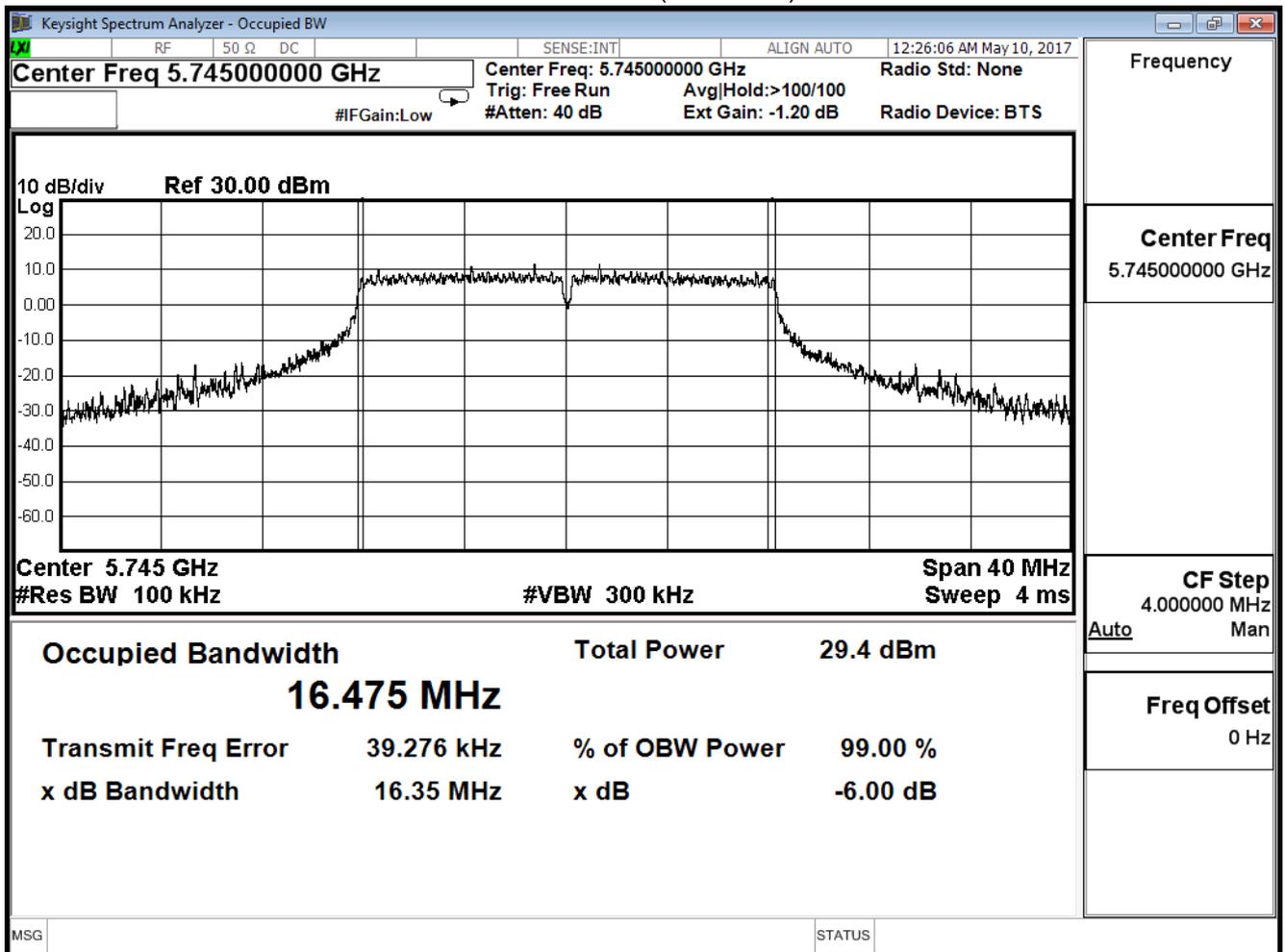


Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 1: TX CDD_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

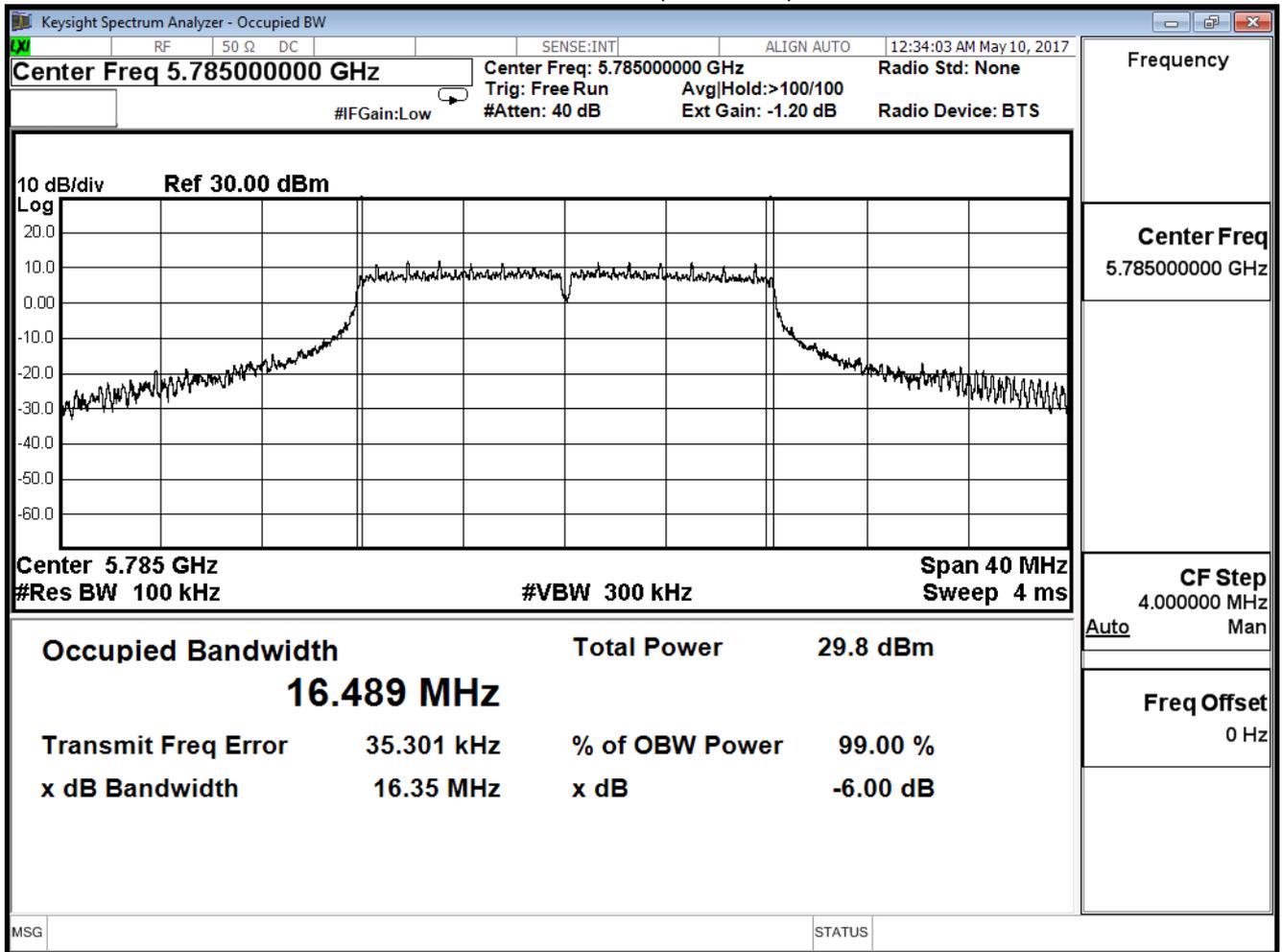
802.11a (ANT1)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
149	5745	16.35	>0.5
157	5785	16.35	>0.5
165	5825	16.34	>0.5

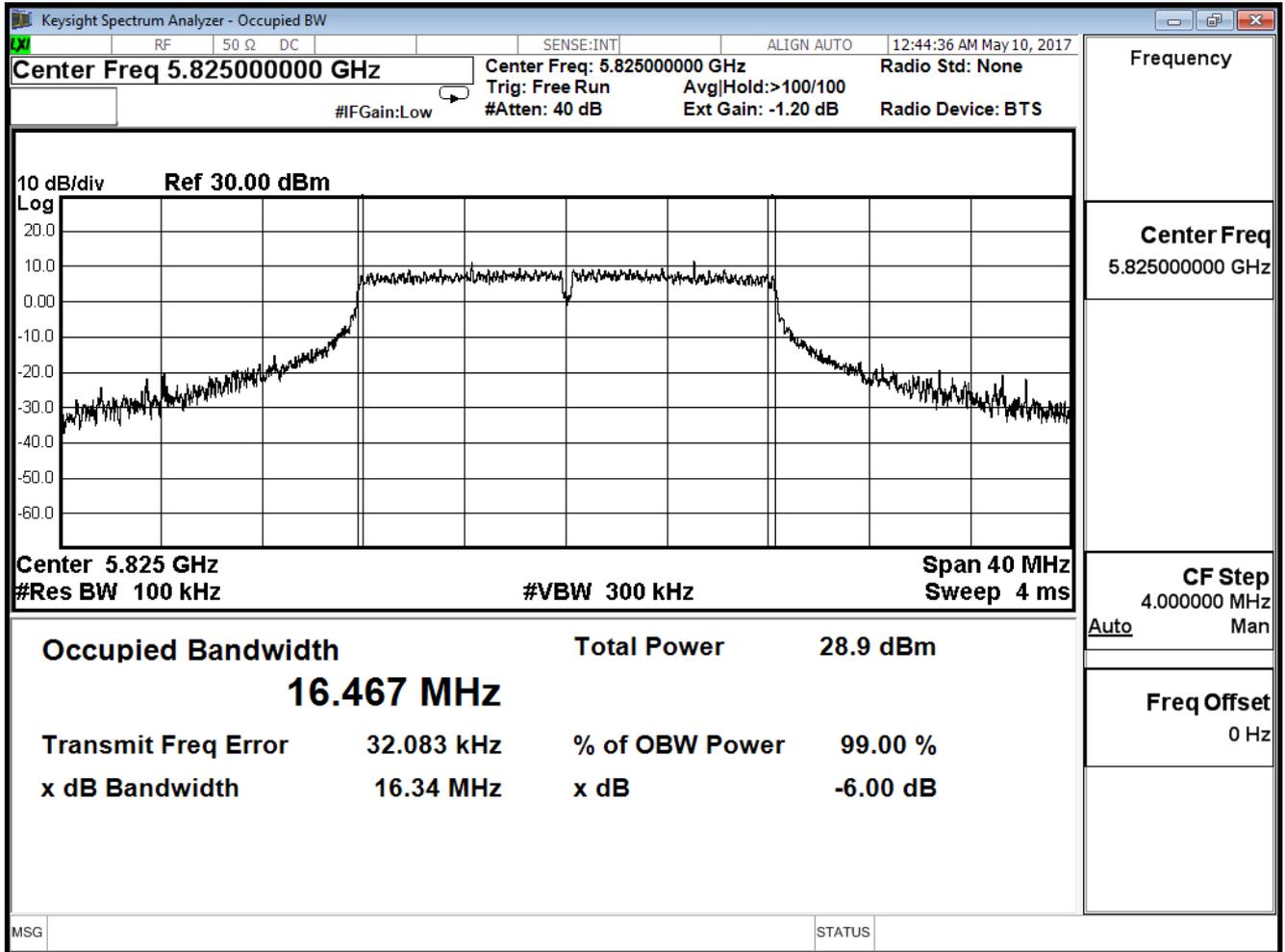
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

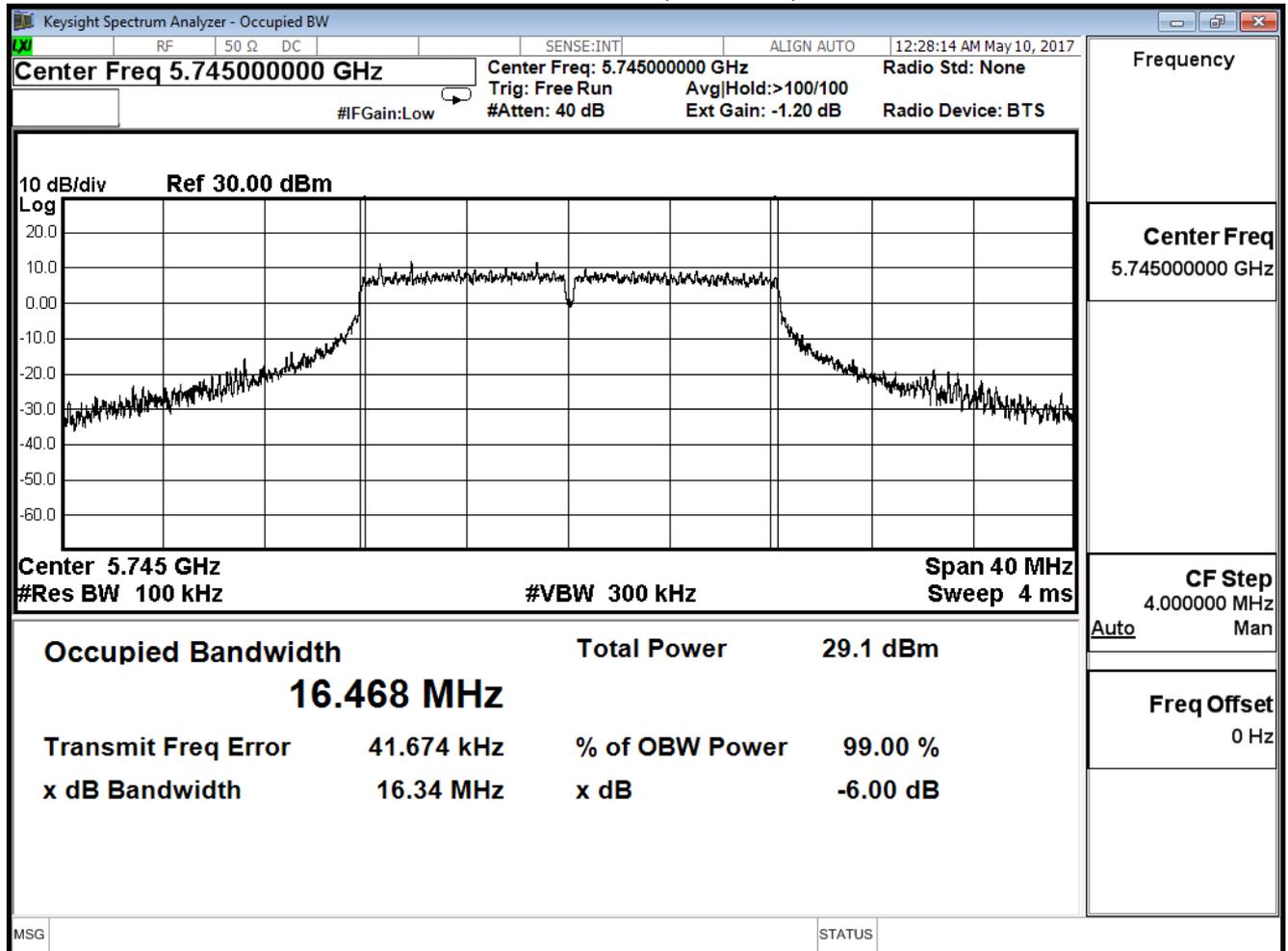


Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 1: TX CDD_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

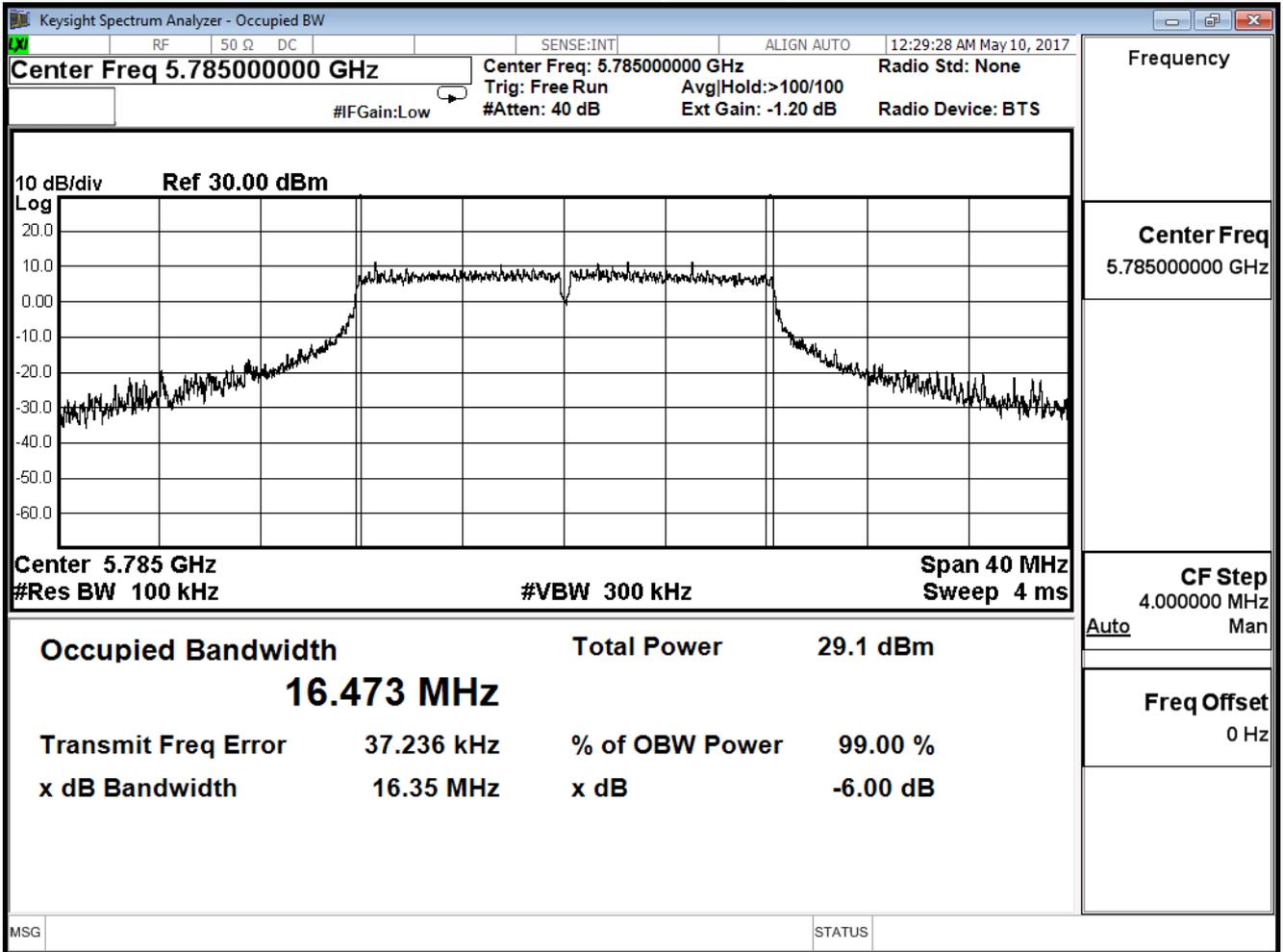
802.11a (ANT2)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
149	5745	16.34	>0.5
157	5785	16.35	>0.5
165	5825	16.34	>0.5

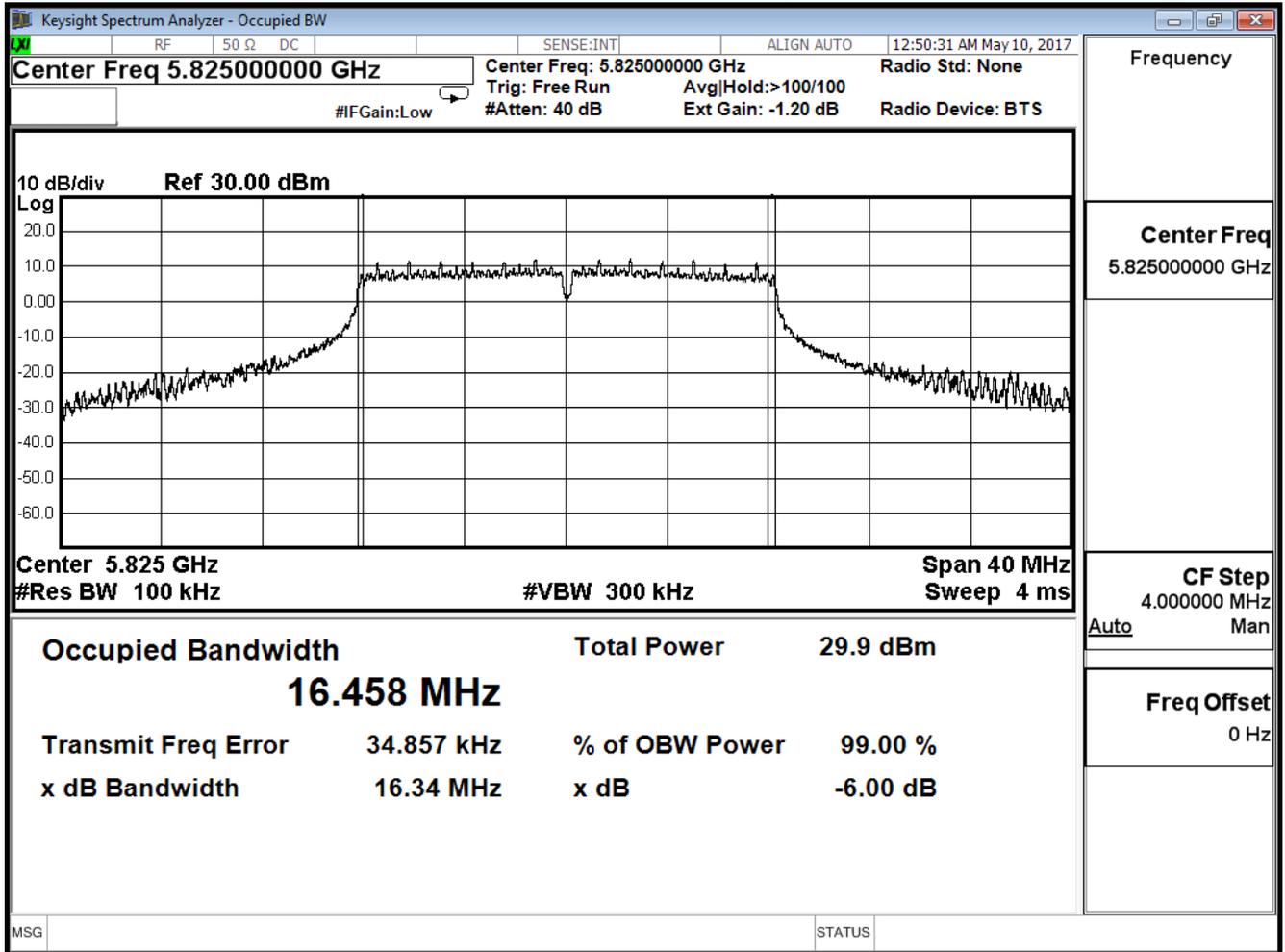
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

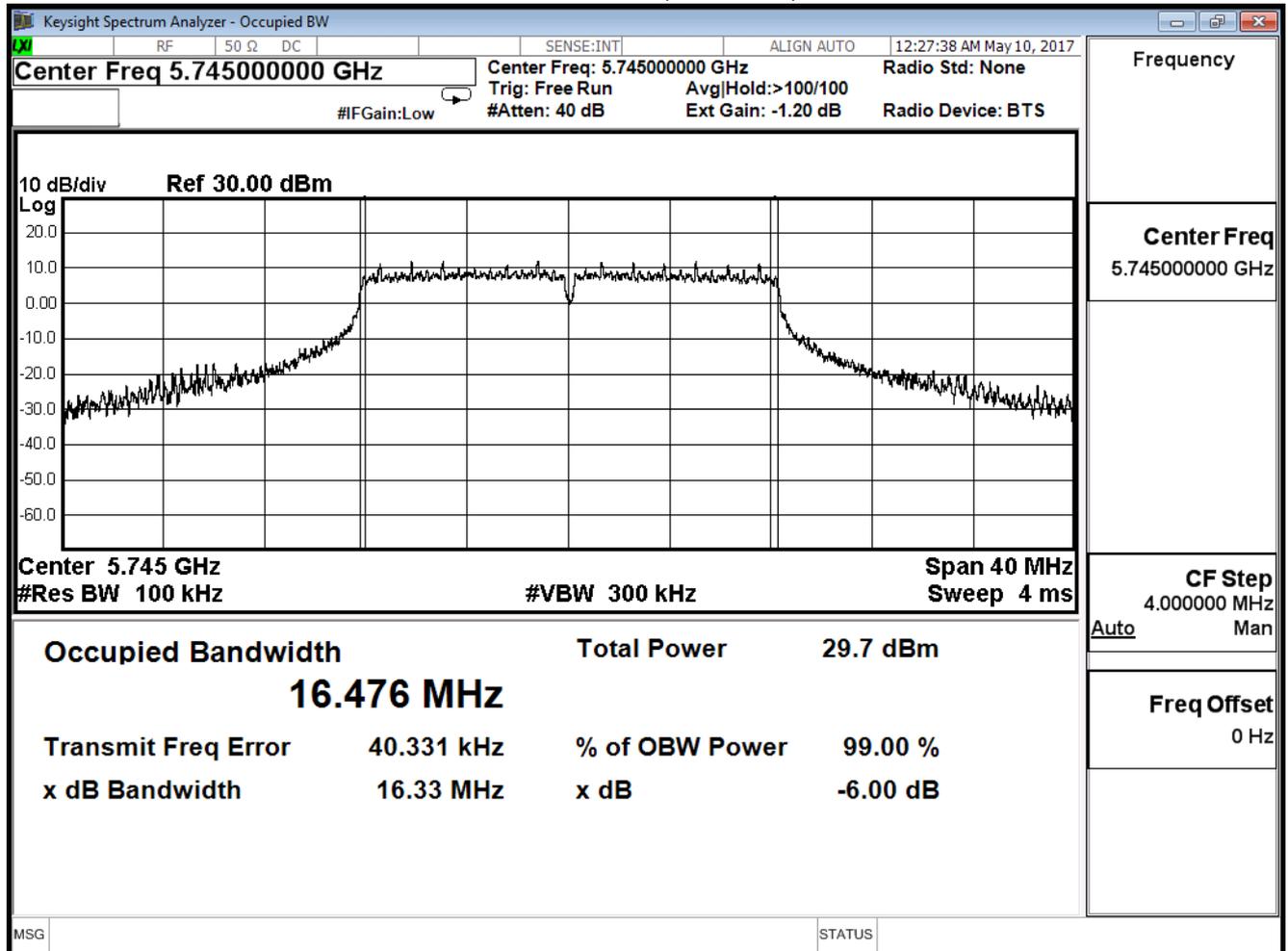


Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 1: TX CDD_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

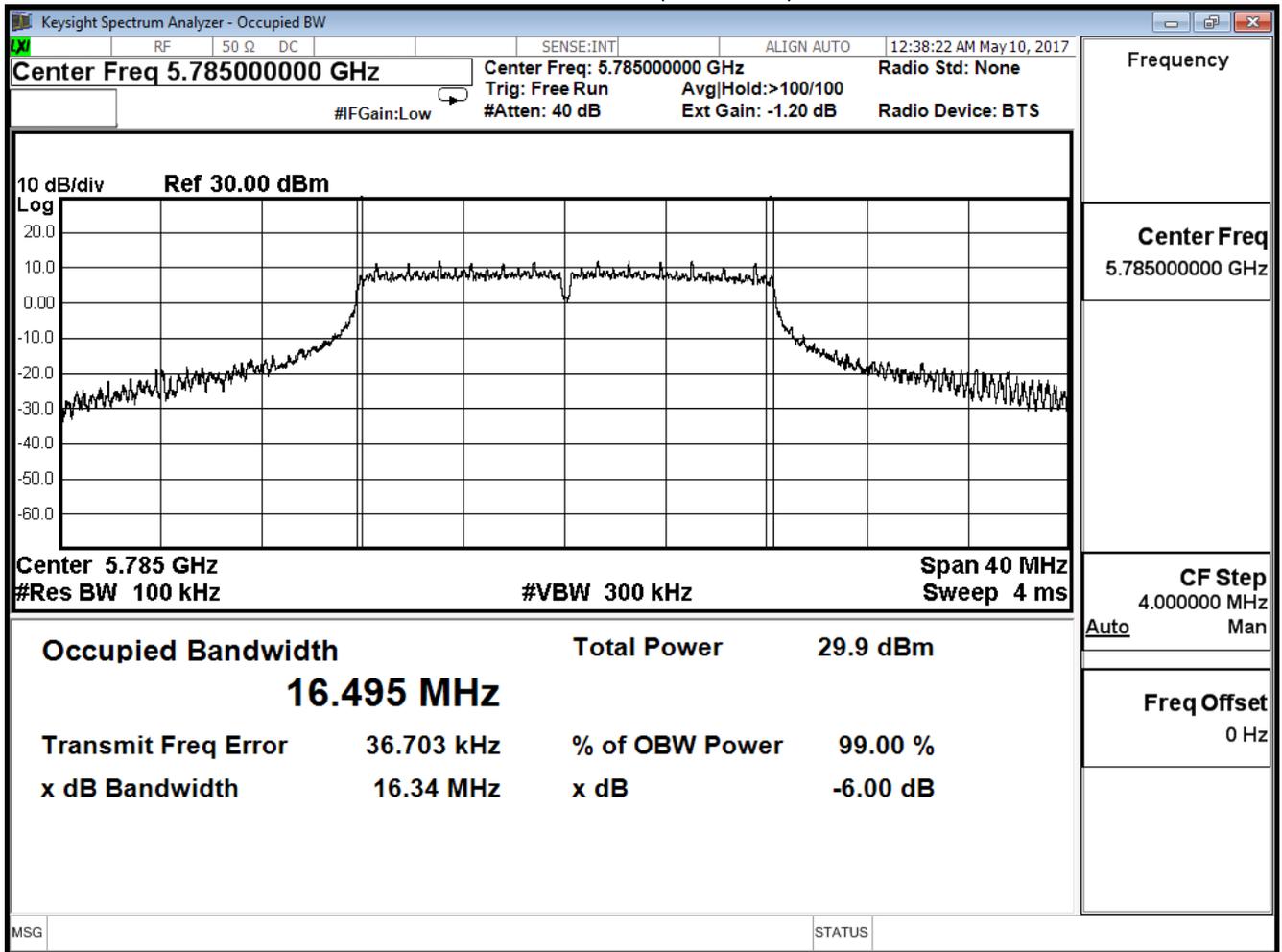
802.11a (ANT3)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
149	5745	16.33	>0.5
157	5785	16.34	>0.5
165	5825	16.32	>0.5

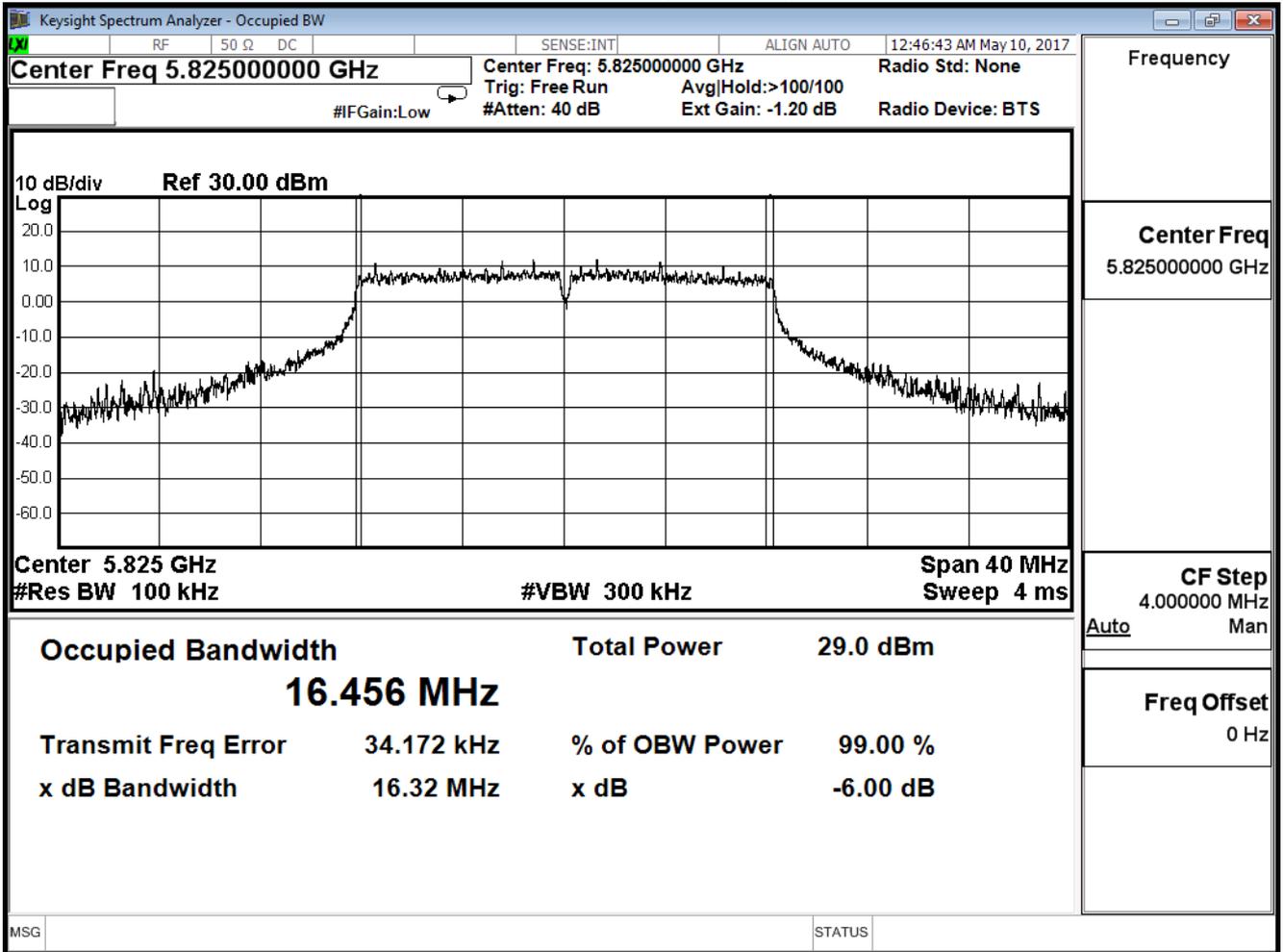
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

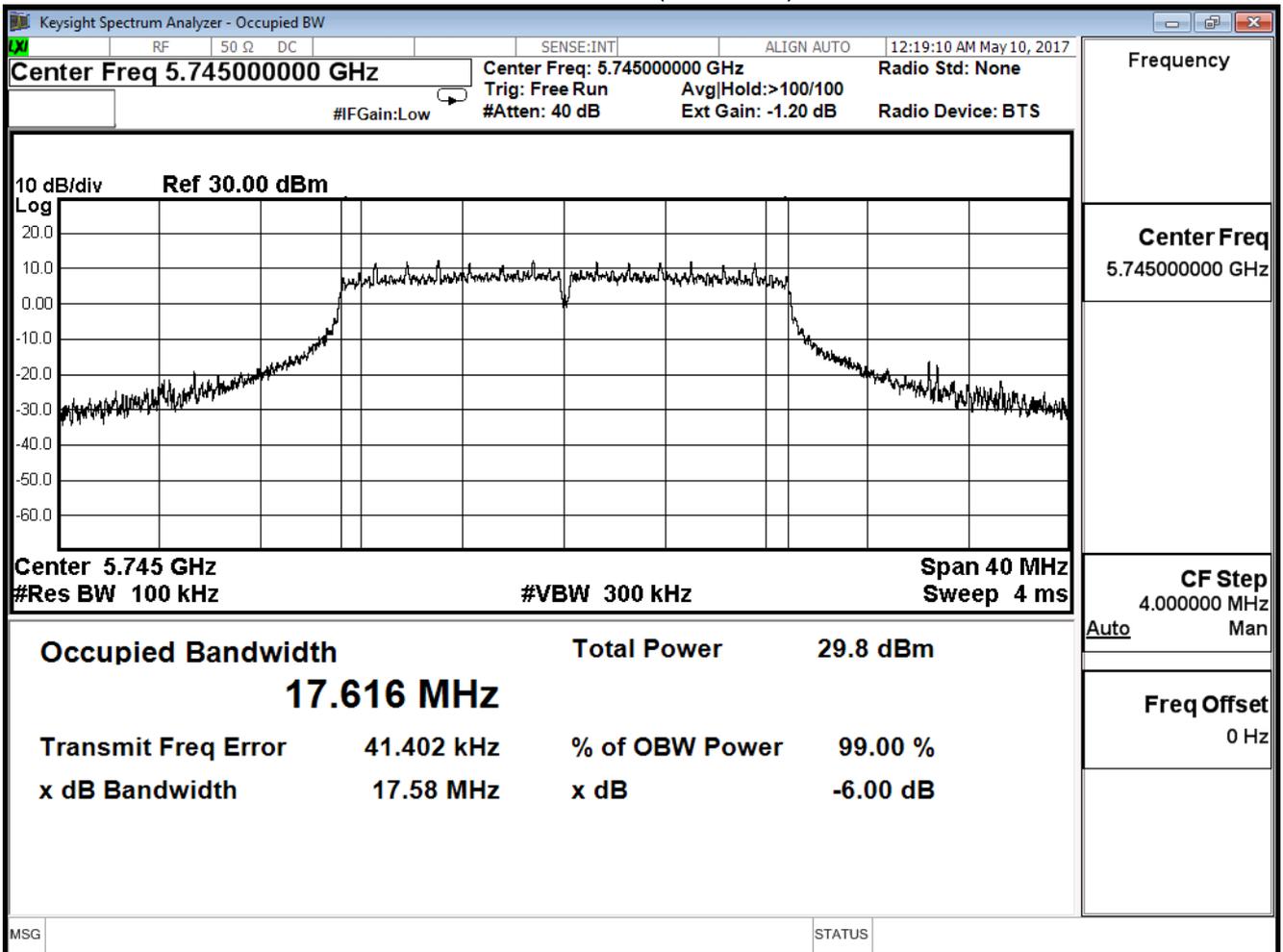


Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

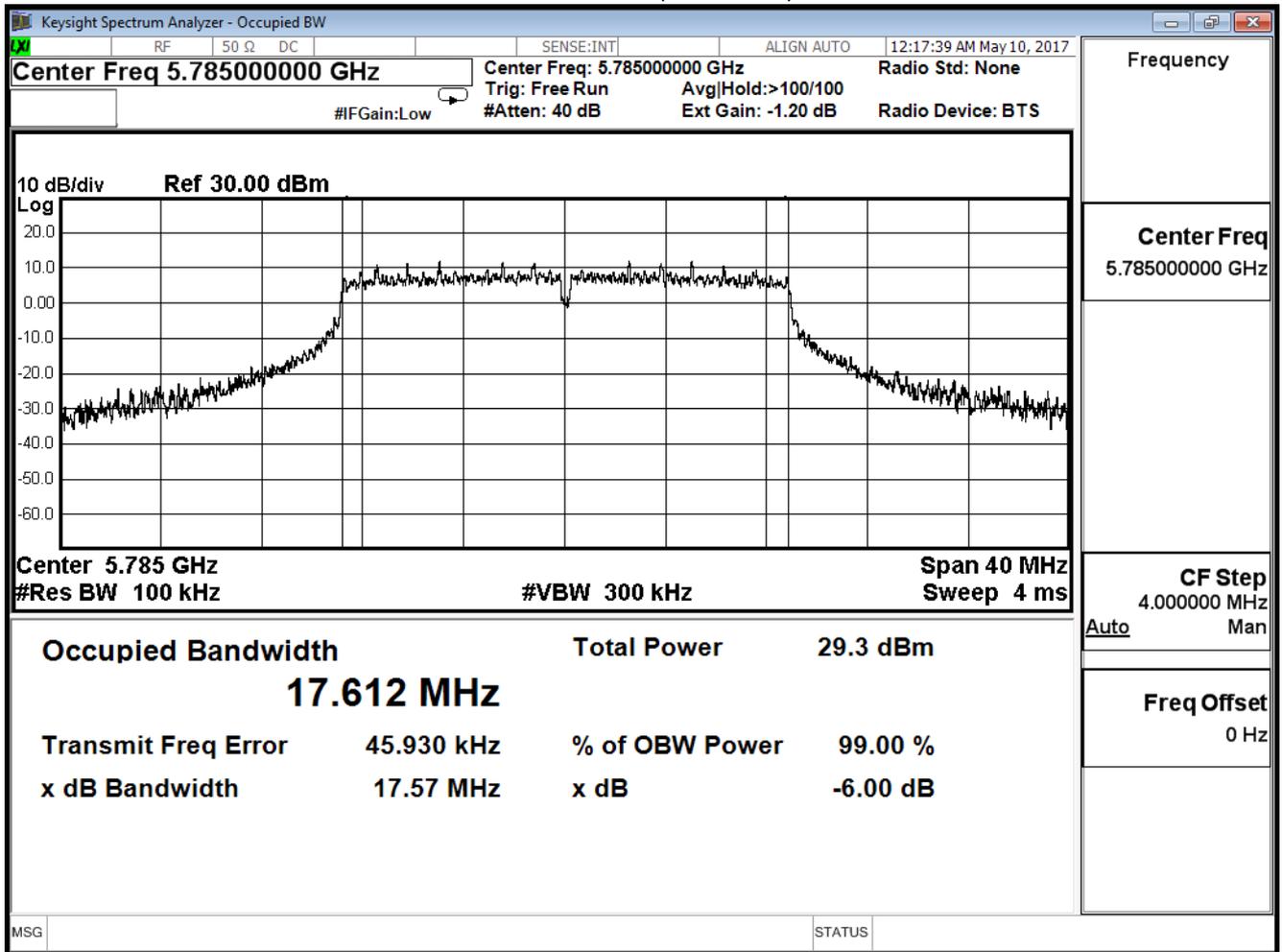
IEEE 802.11n(20MHz)(ANT0)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
149	5745	17.58	>0.5
157	5785	17.57	>0.5
165	5825	17.57	>0.5

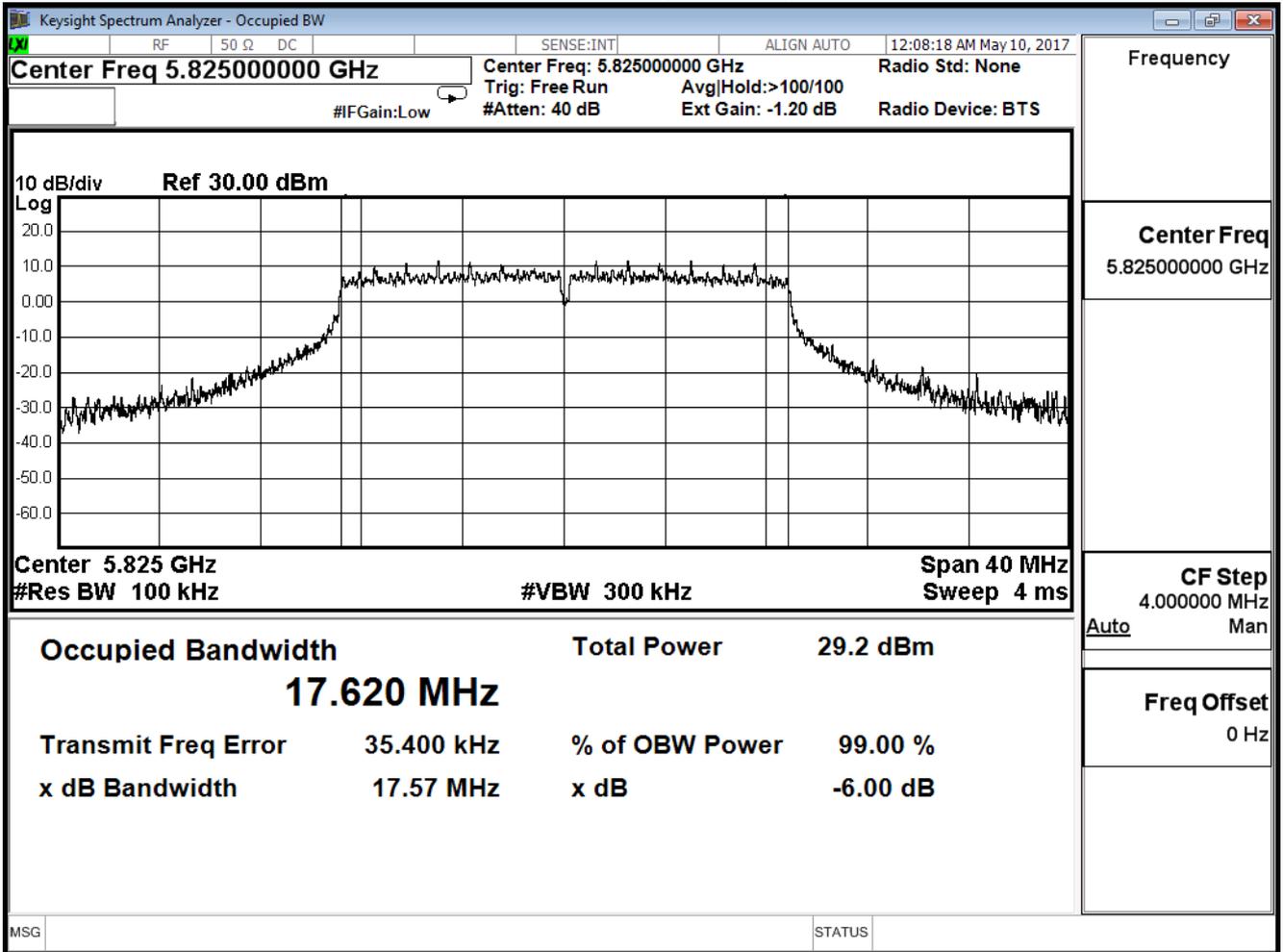
Channel 149 (5745MHz)



Channel 157 (5785MHz)



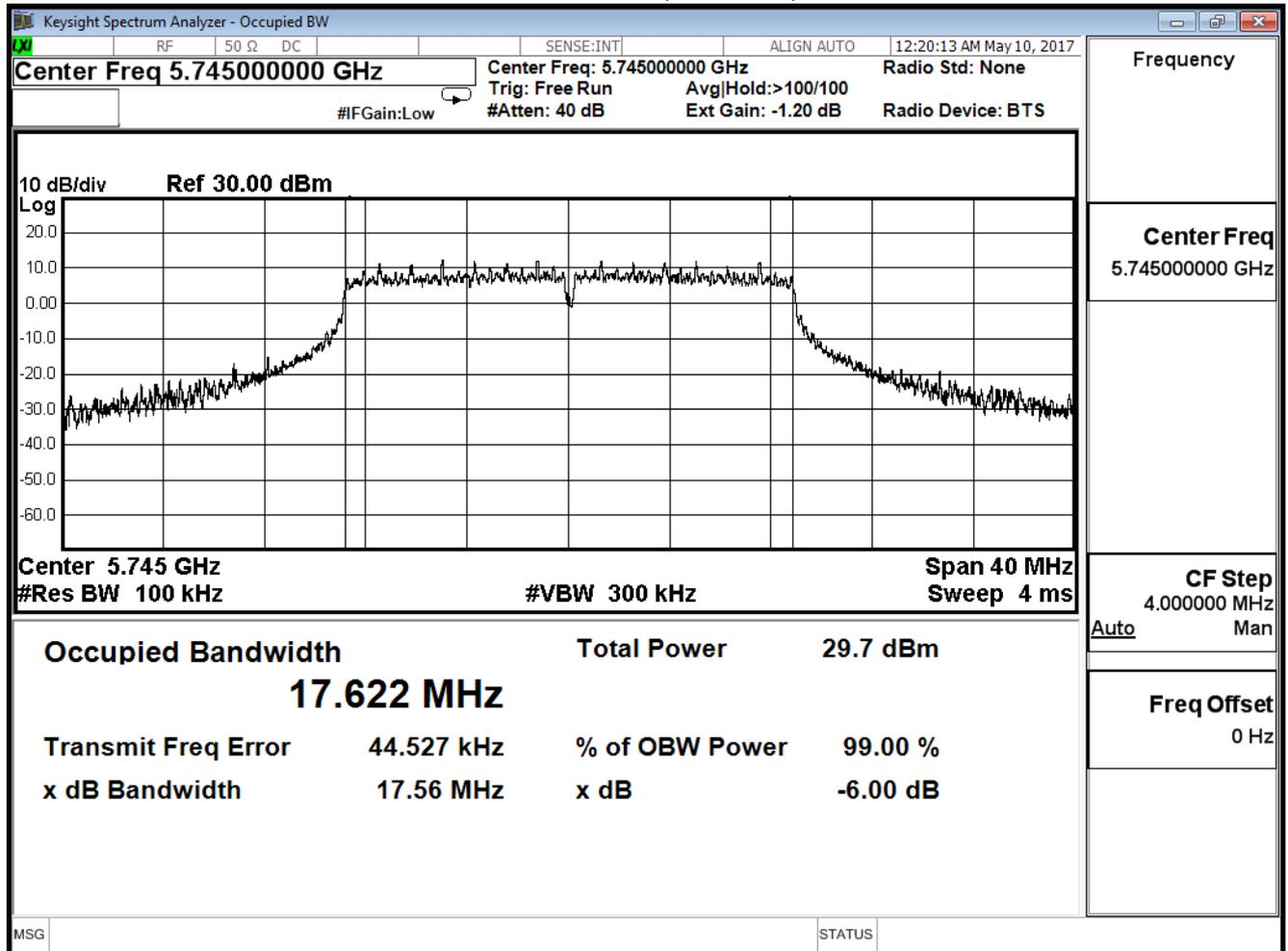
Channel 165 (5825MHz)



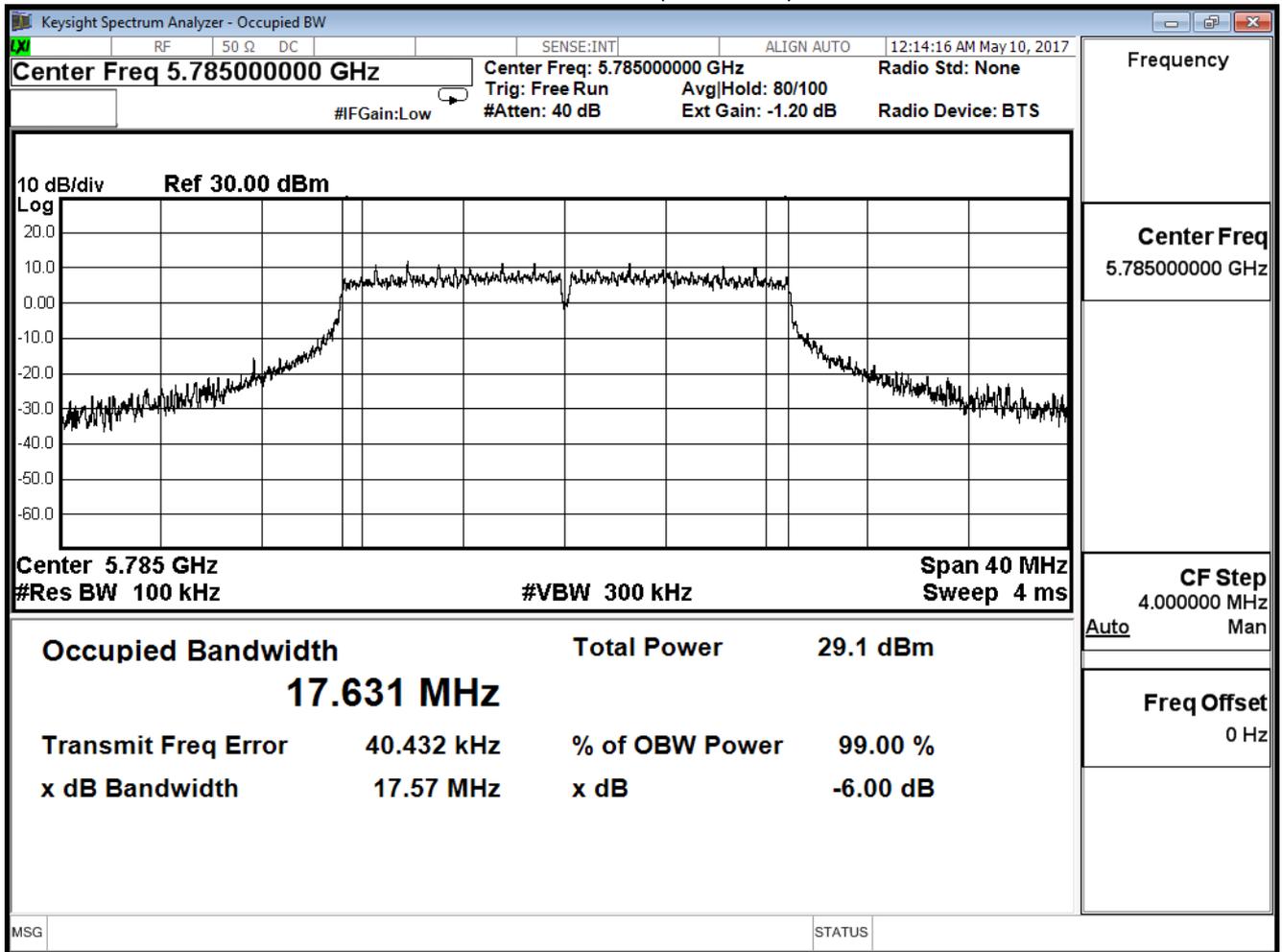
Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

IEEE 802.11n(20MHz)(ANT1)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
149	5745	17.56	>0.5
157	5785	17.57	>0.5
165	5825	17.56	>0.5

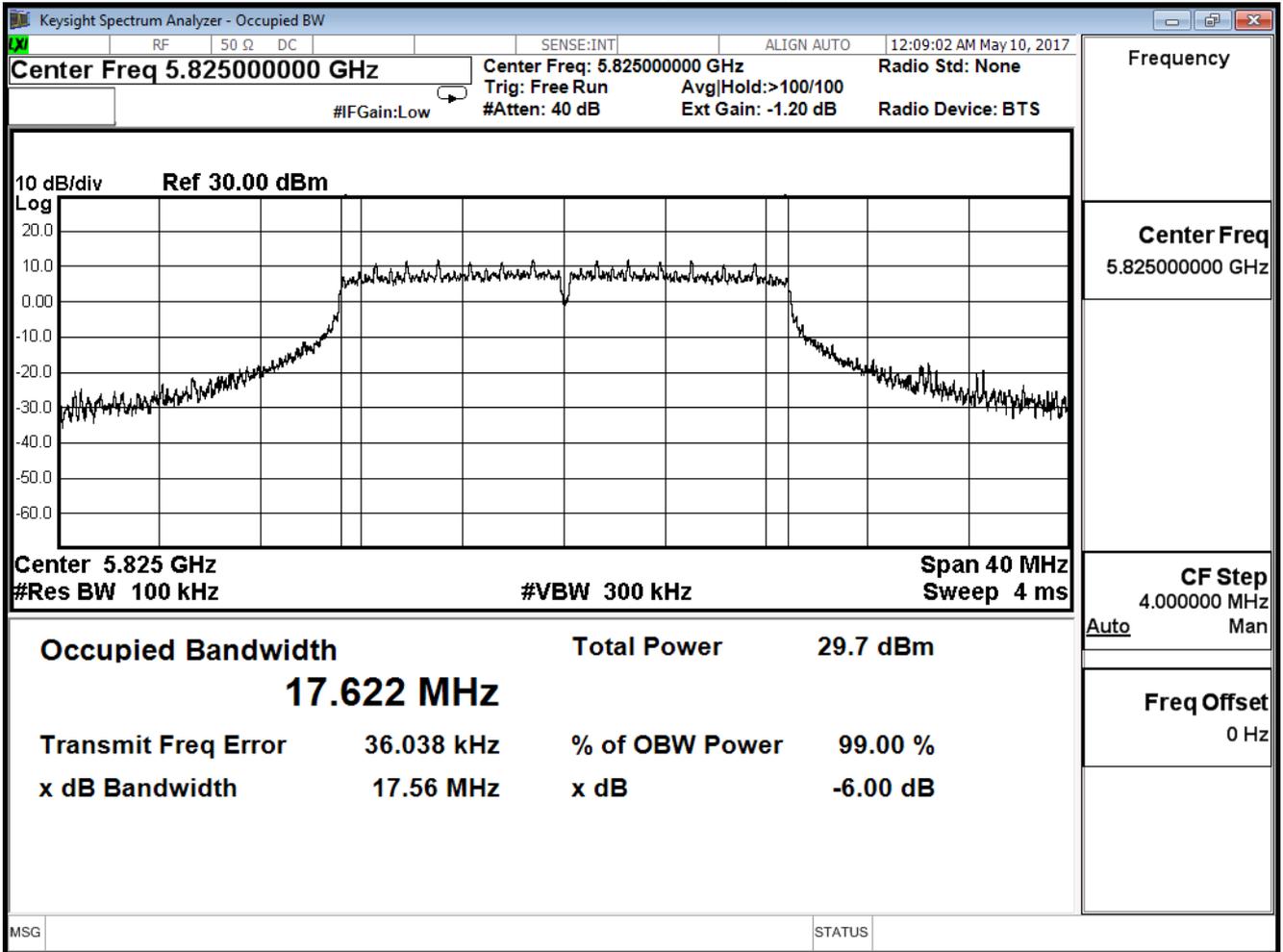
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

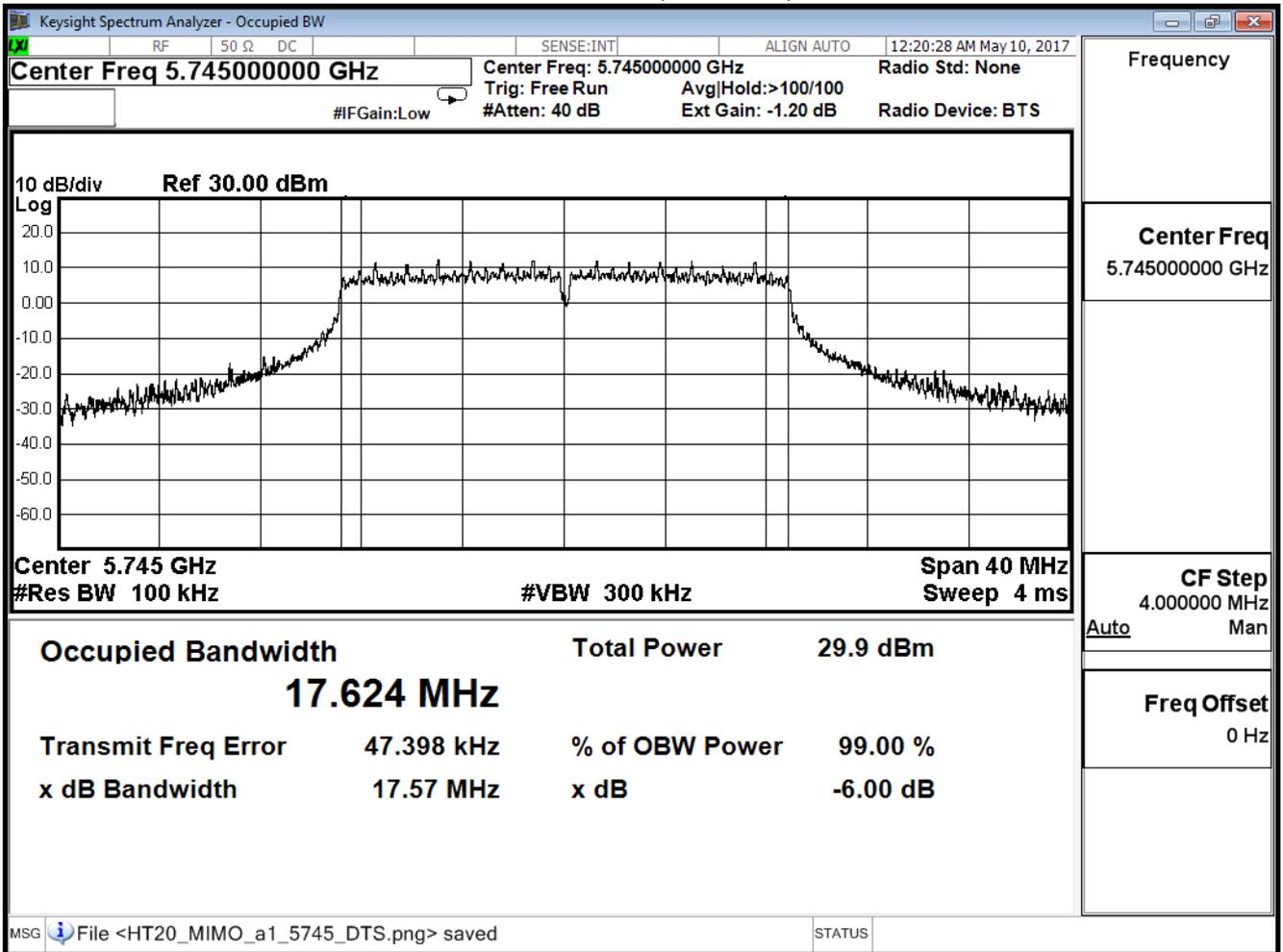


Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

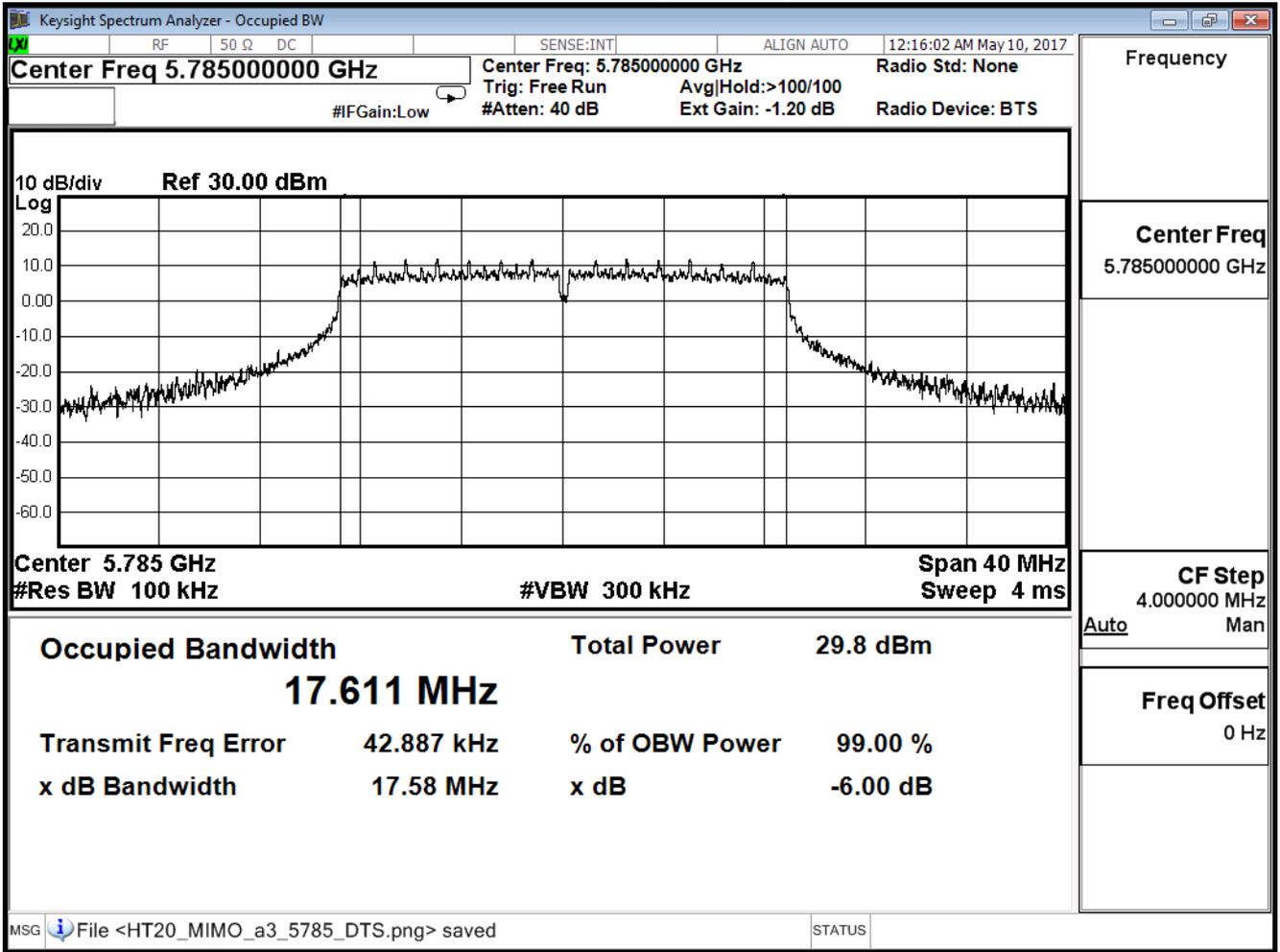
IEEE 802.11n(20MHz)(ANT2)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
149	5745	17.57	>0.5
157	5785	17.58	>0.5
165	5825	17.58	>0.5

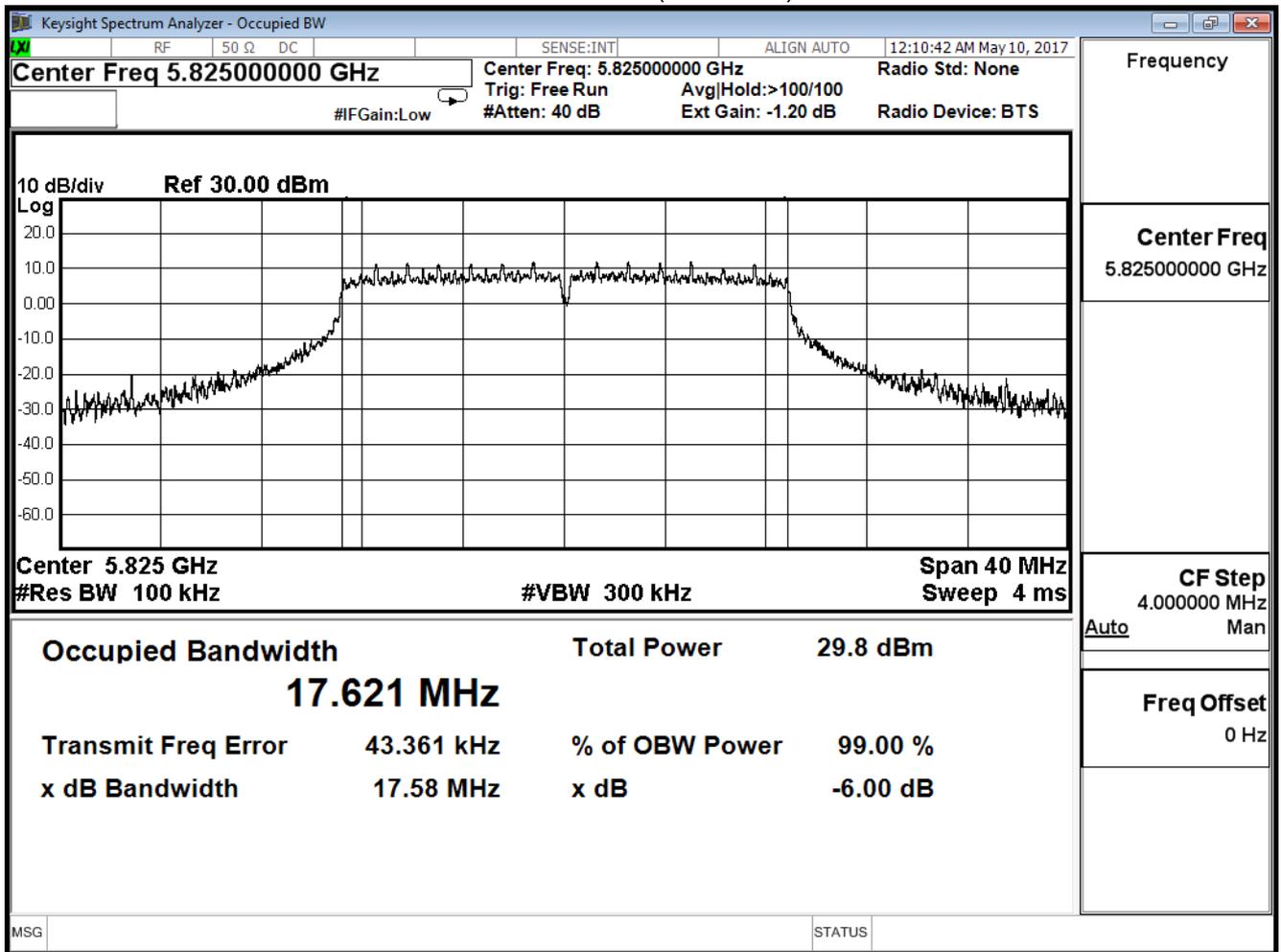
Channel 149 (5745MHz)



Channel 157 (5785MHz)



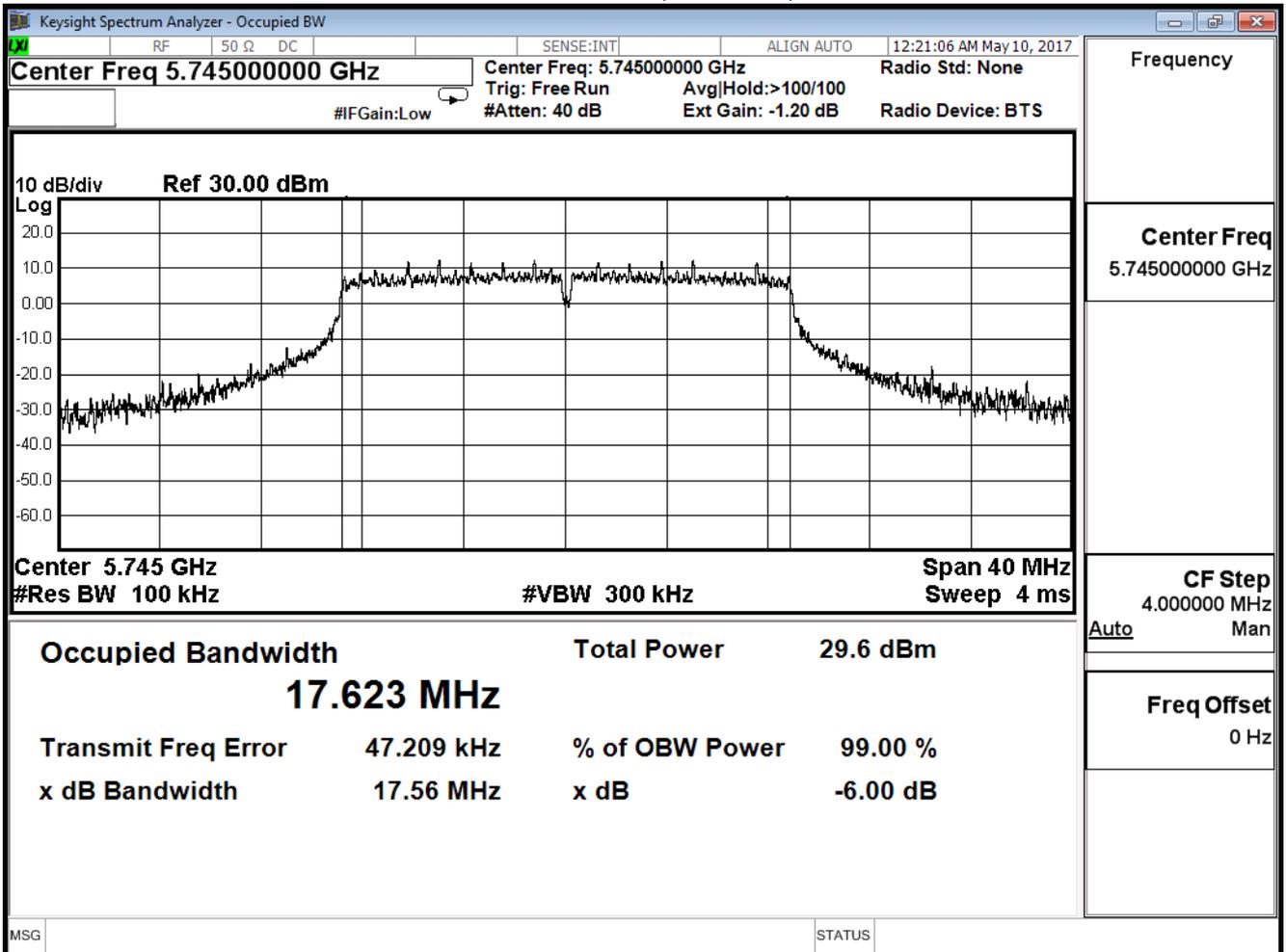
Channel 165 (5825MHz)



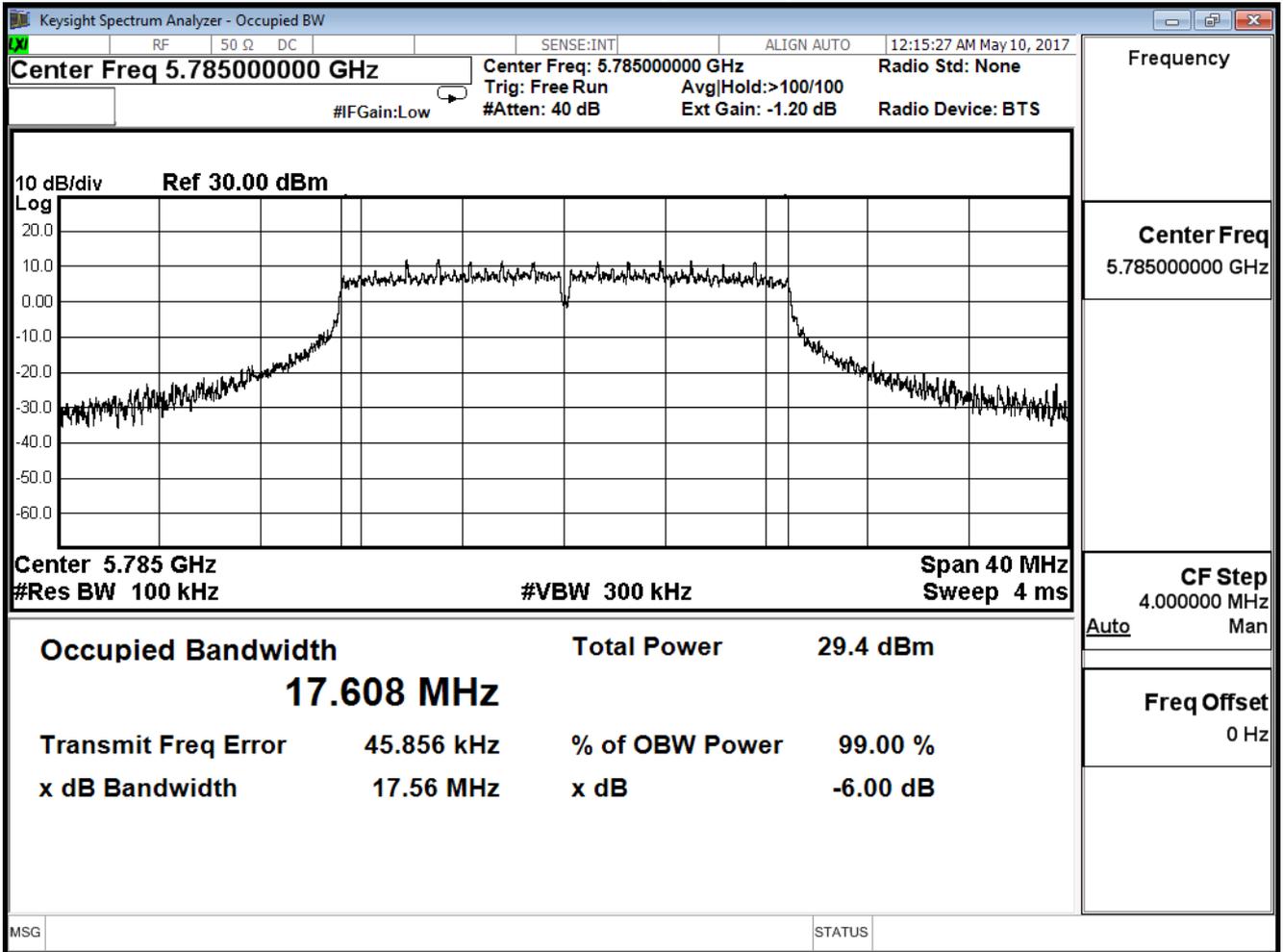
Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

IEEE 802.11n(20MHz)(ANT3)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
149	5745	17.56	>0.5
157	5785	17.56	>0.5
165	5825	17.58	>0.5

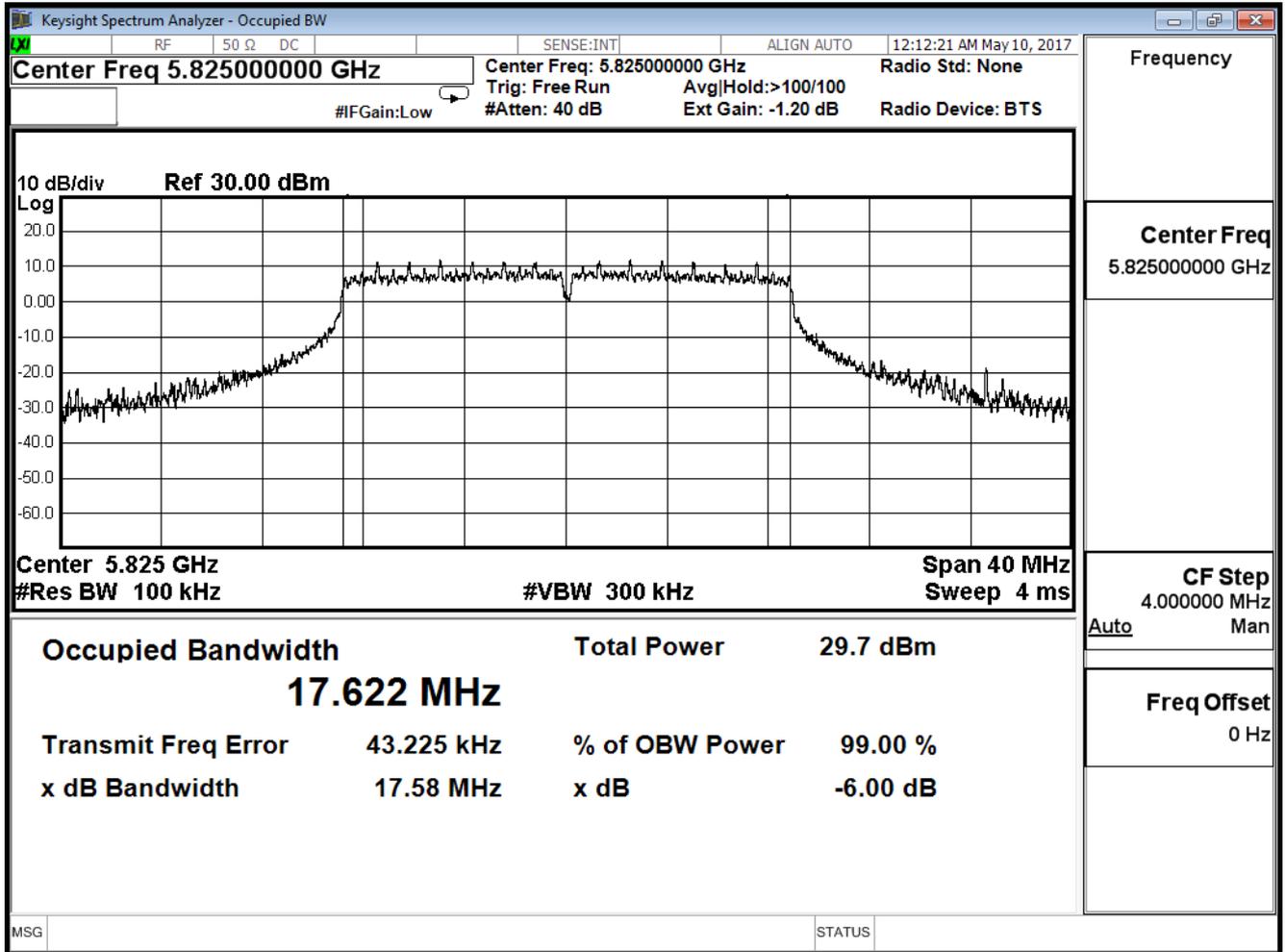
Channel 149 (5745MHz)



Channel 157 (5785MHz)



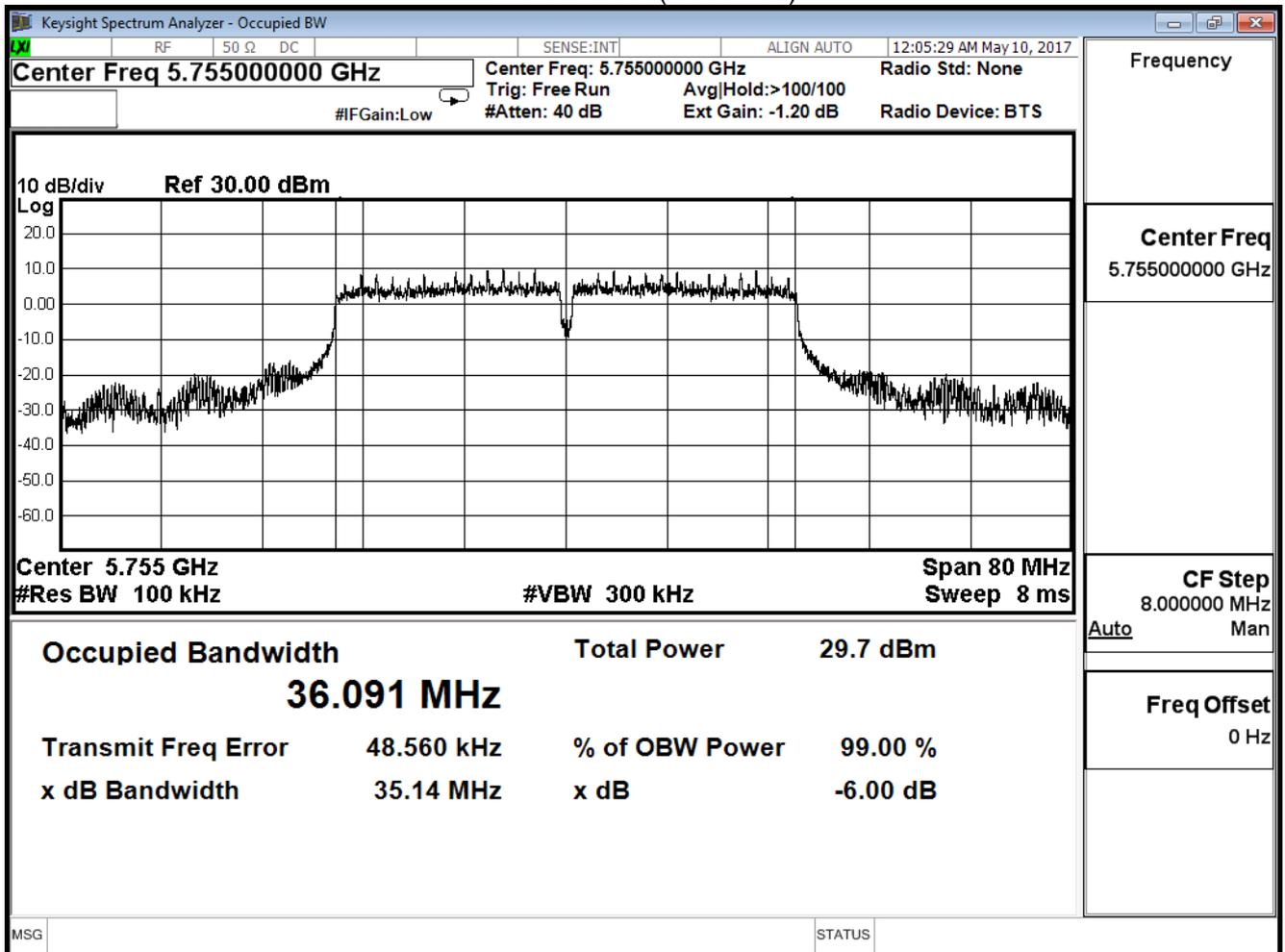
Channel 165 (5825MHz)



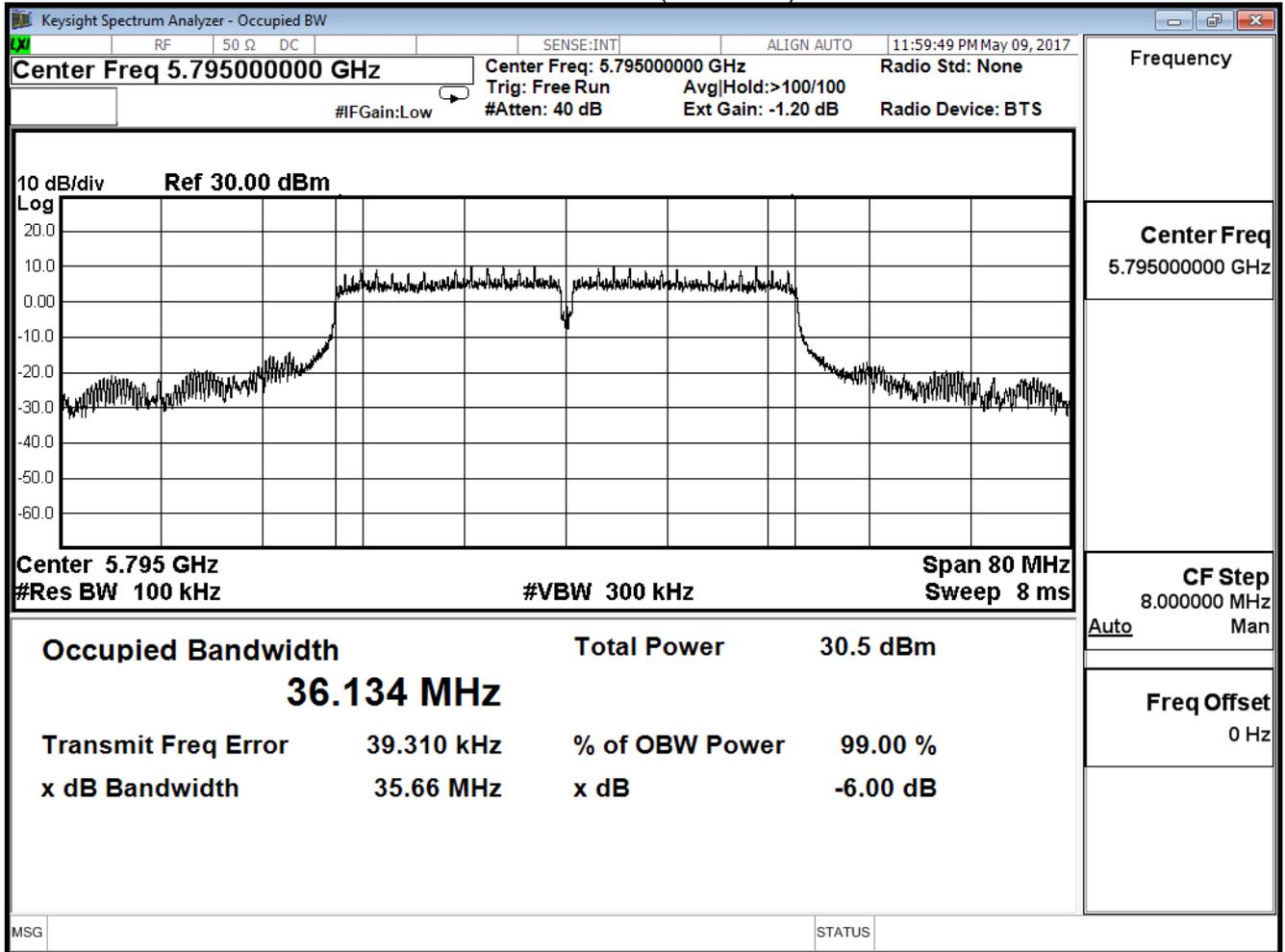
Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

IEEE 802.11n(40MHz)(ANT0)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
151	5755	35.14	>0.5
159	5795	35.66	>0.5

Channel 151 (5755MHz)



Channel 159 (5795MHz)

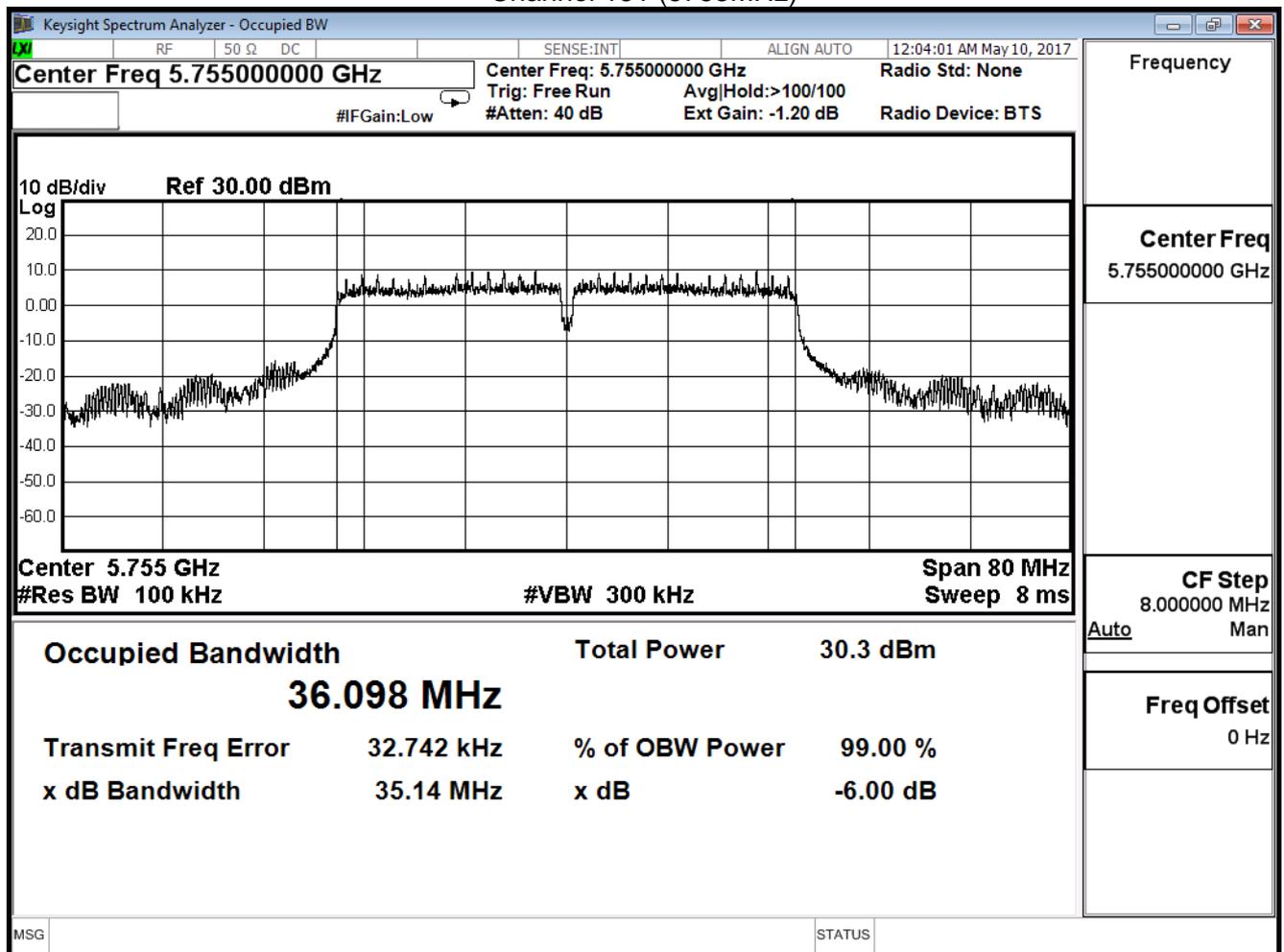


Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

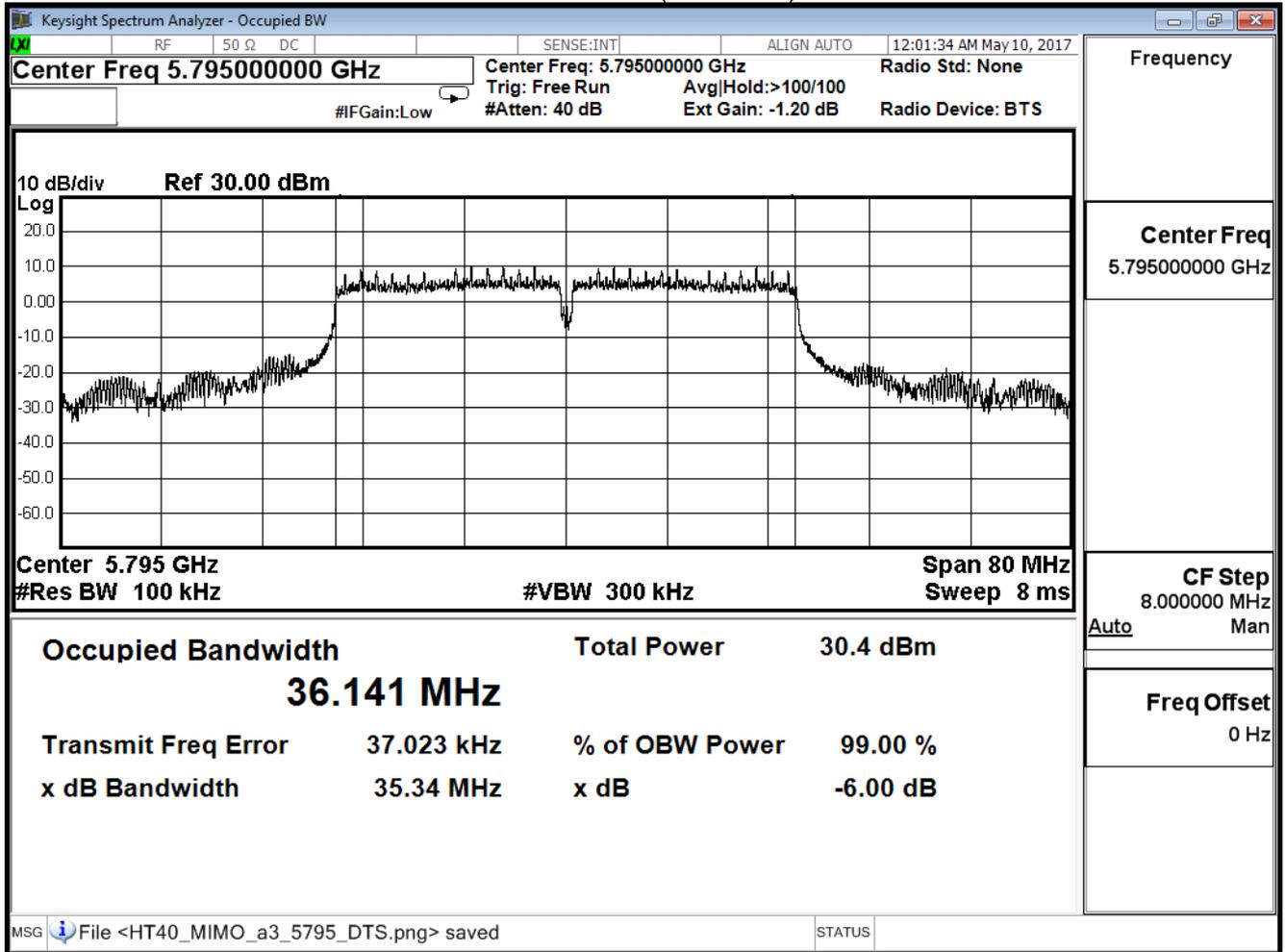
IEEE 802.11n(40MHz)(ANT1)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
151	5755	35.14	>0.5
159	5795	35.34	>0.5

Channel 151 (5755MHz)



Channel 159 (5795MHz)

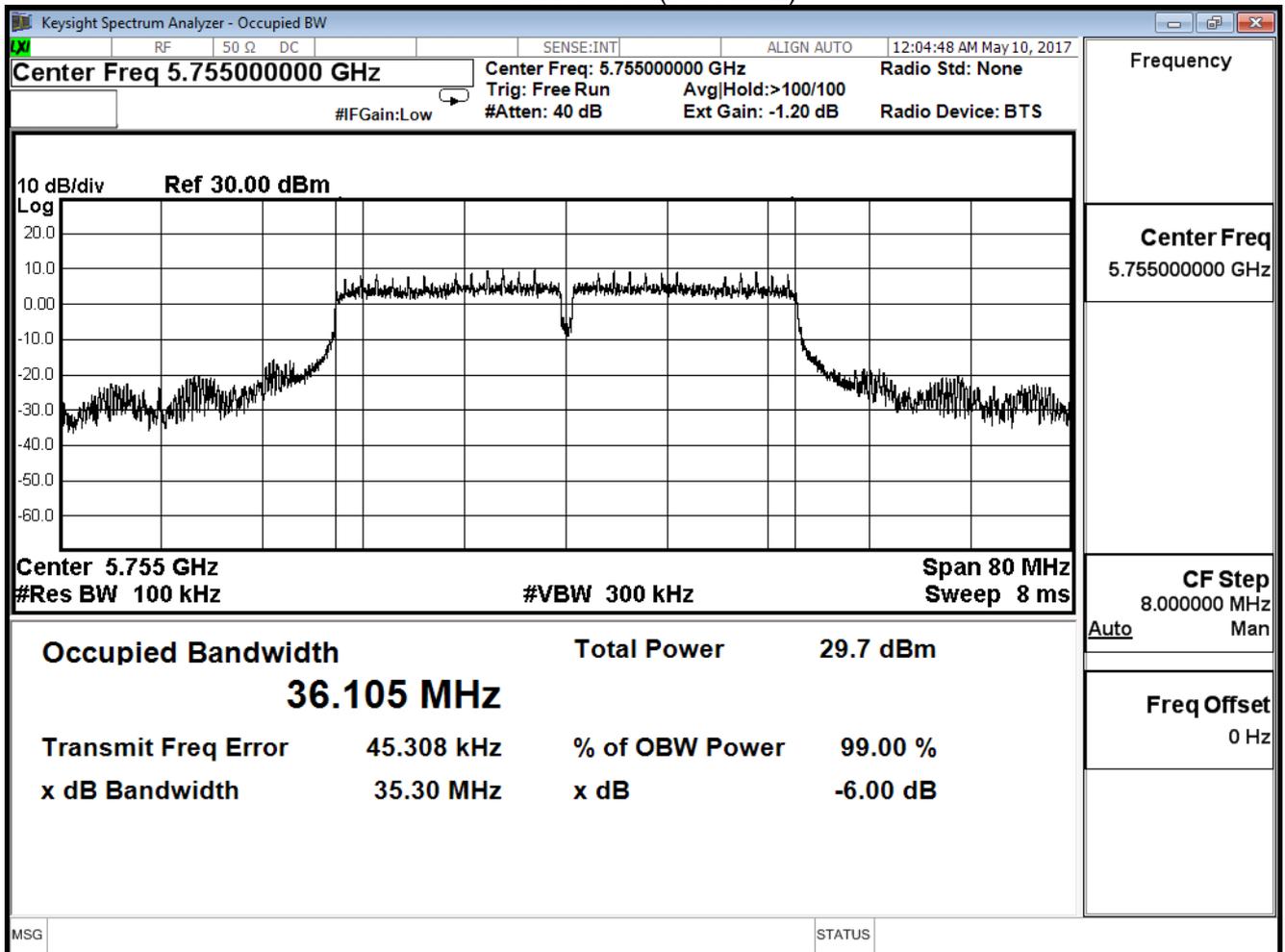


Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

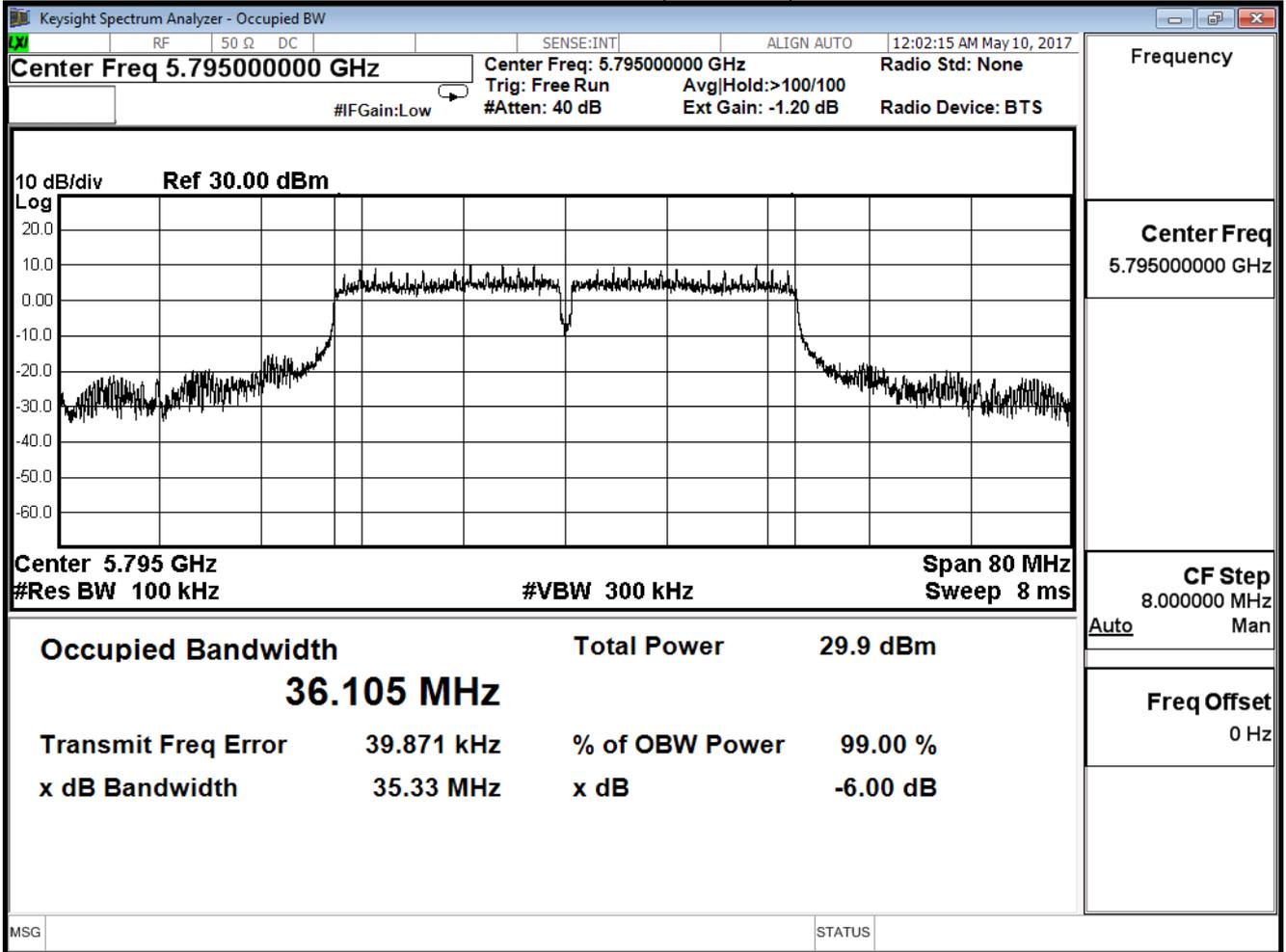
IEEE 802.11n(40MHz)(ANT2)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
151	5755	35.30	>0.5
159	5795	35.33	>0.5

Channel 151 (5755MHz)



Channel 159 (5795MHz)

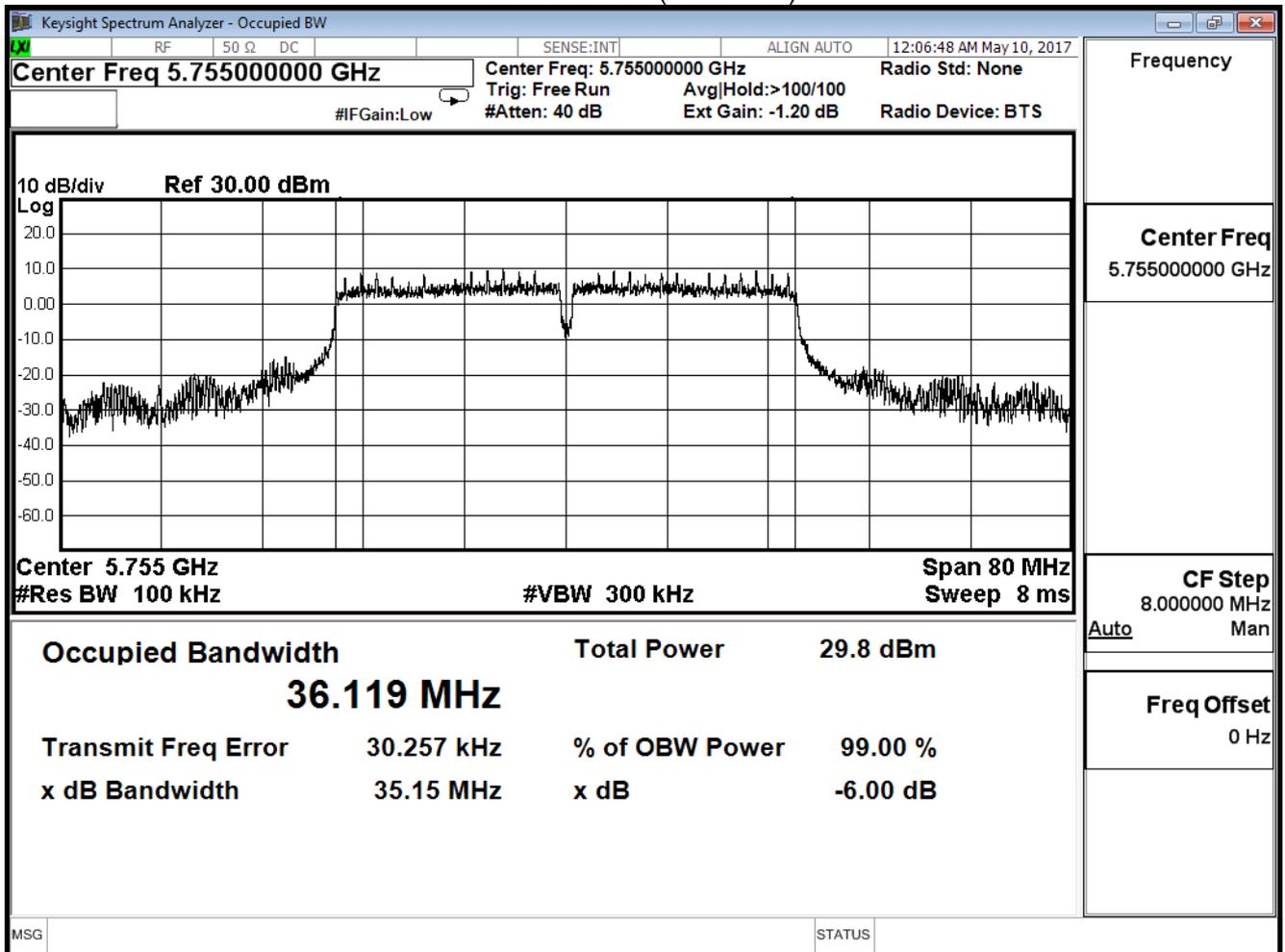


Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/10	Test Site	SR10-H

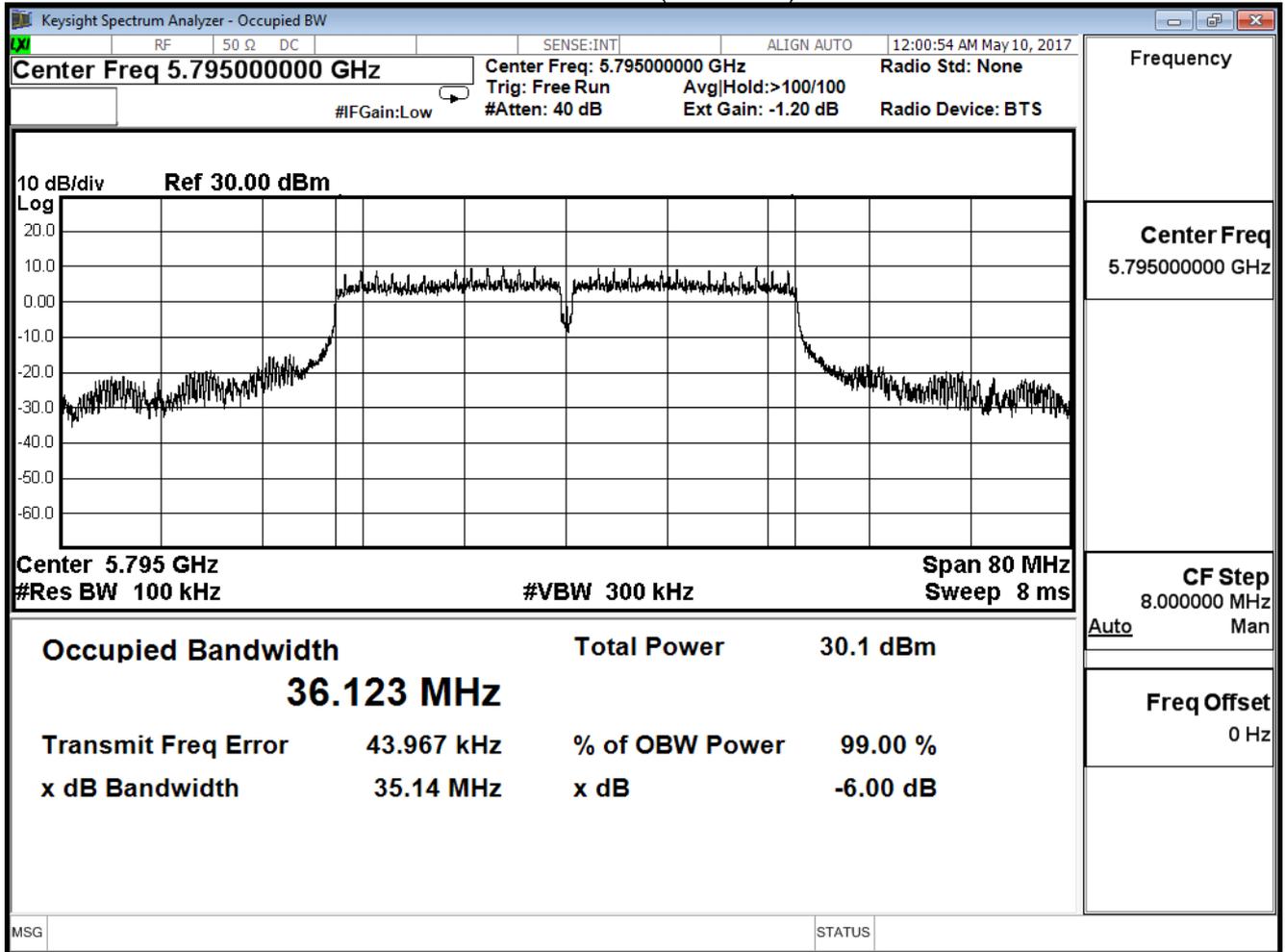
IEEE 802.11n(40MHz)(ANT3)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
151	5755	35.15	>0.5
159	5795	35.14	>0.5

Channel 151 (5755MHz)



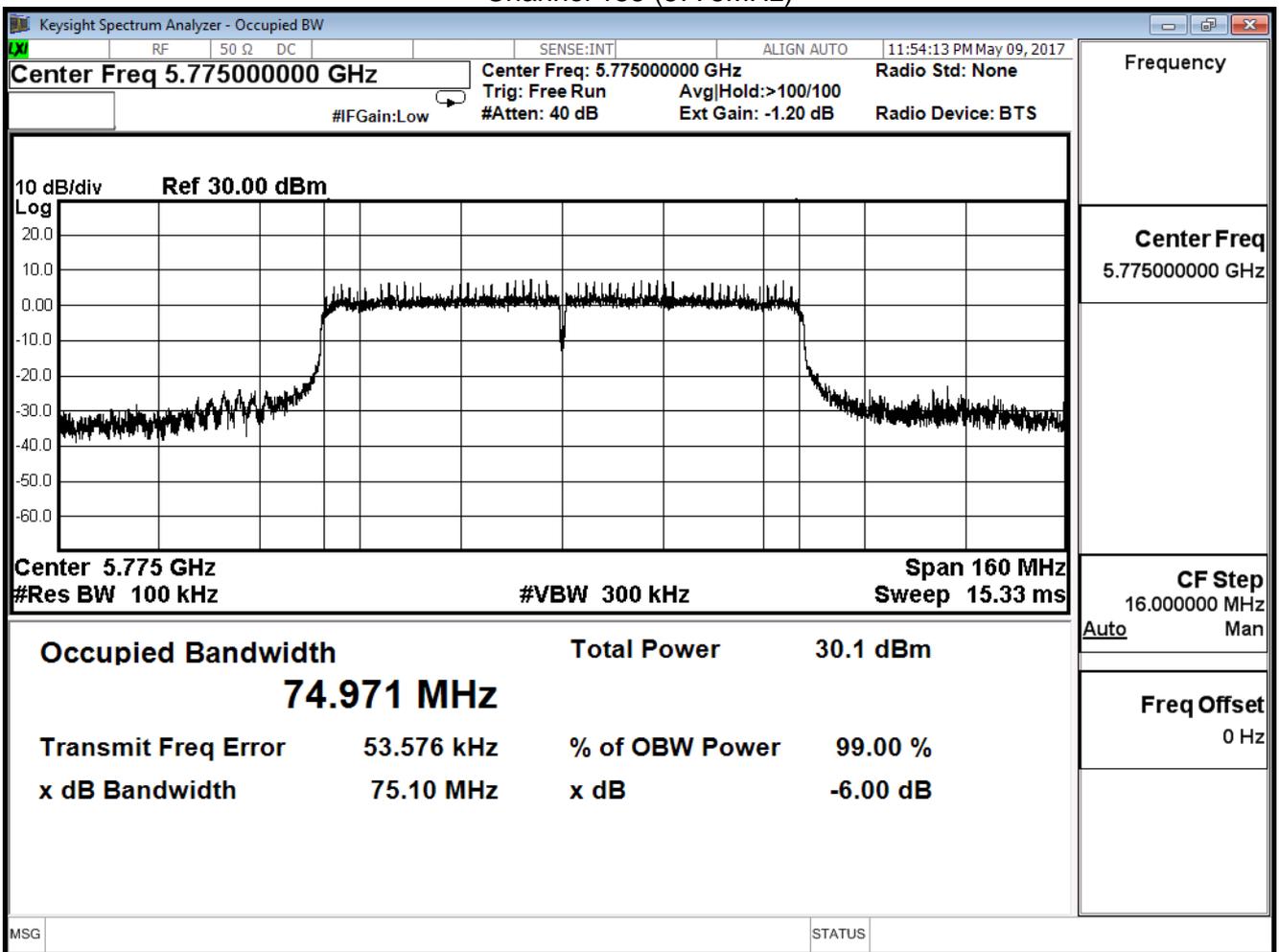
Channel 159 (5795MHz)



Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/09	Test Site	SR10-H

IEEE802.11ac(80MHz)(ANT0)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
155	5775	75.10	>0.5

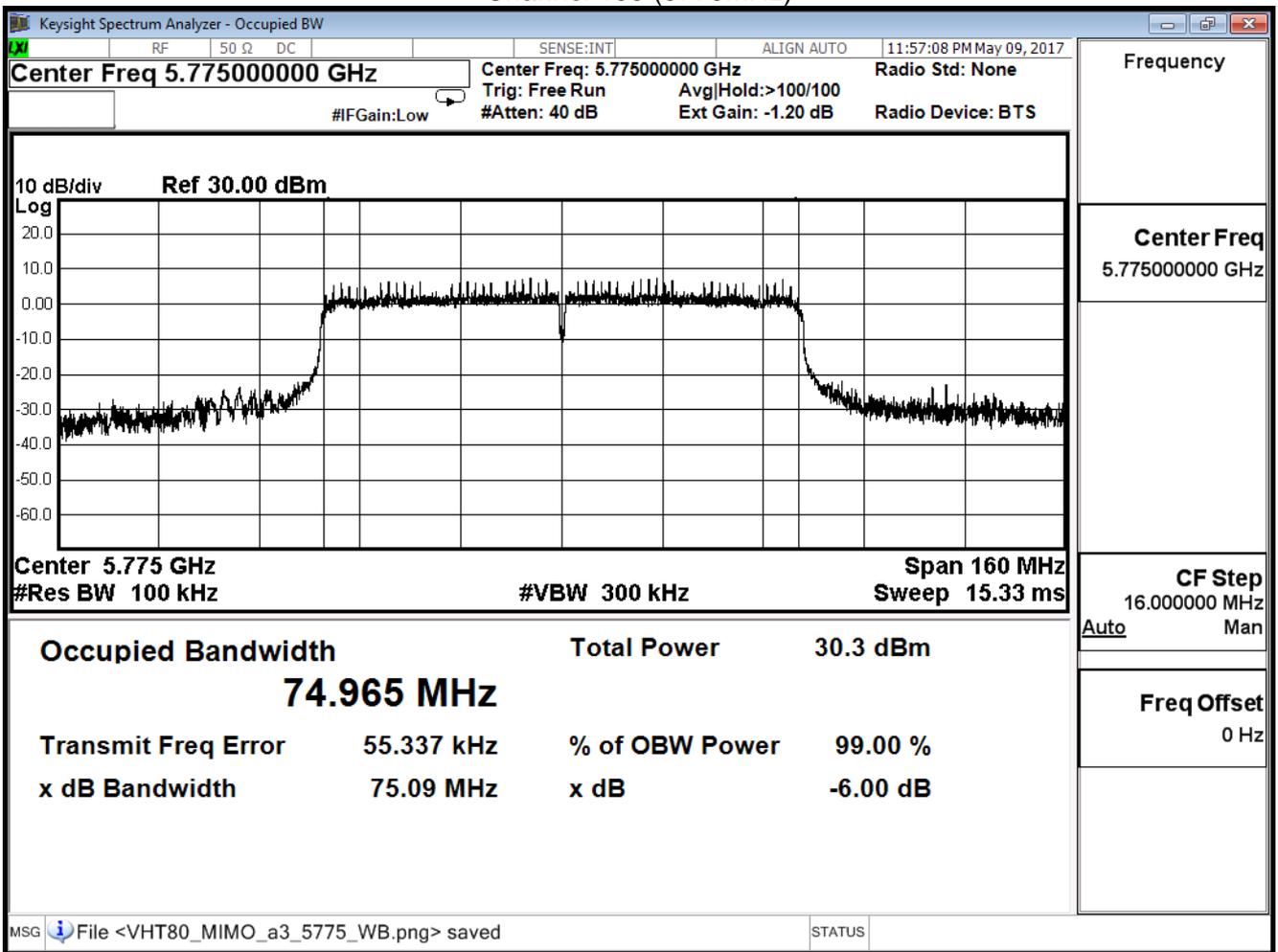
Channel 155 (5775MHz)



Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/09	Test Site	SR10-H

IEEE802.11ac(80MHz)(ANT1)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
155	5775	75.09	>0.5

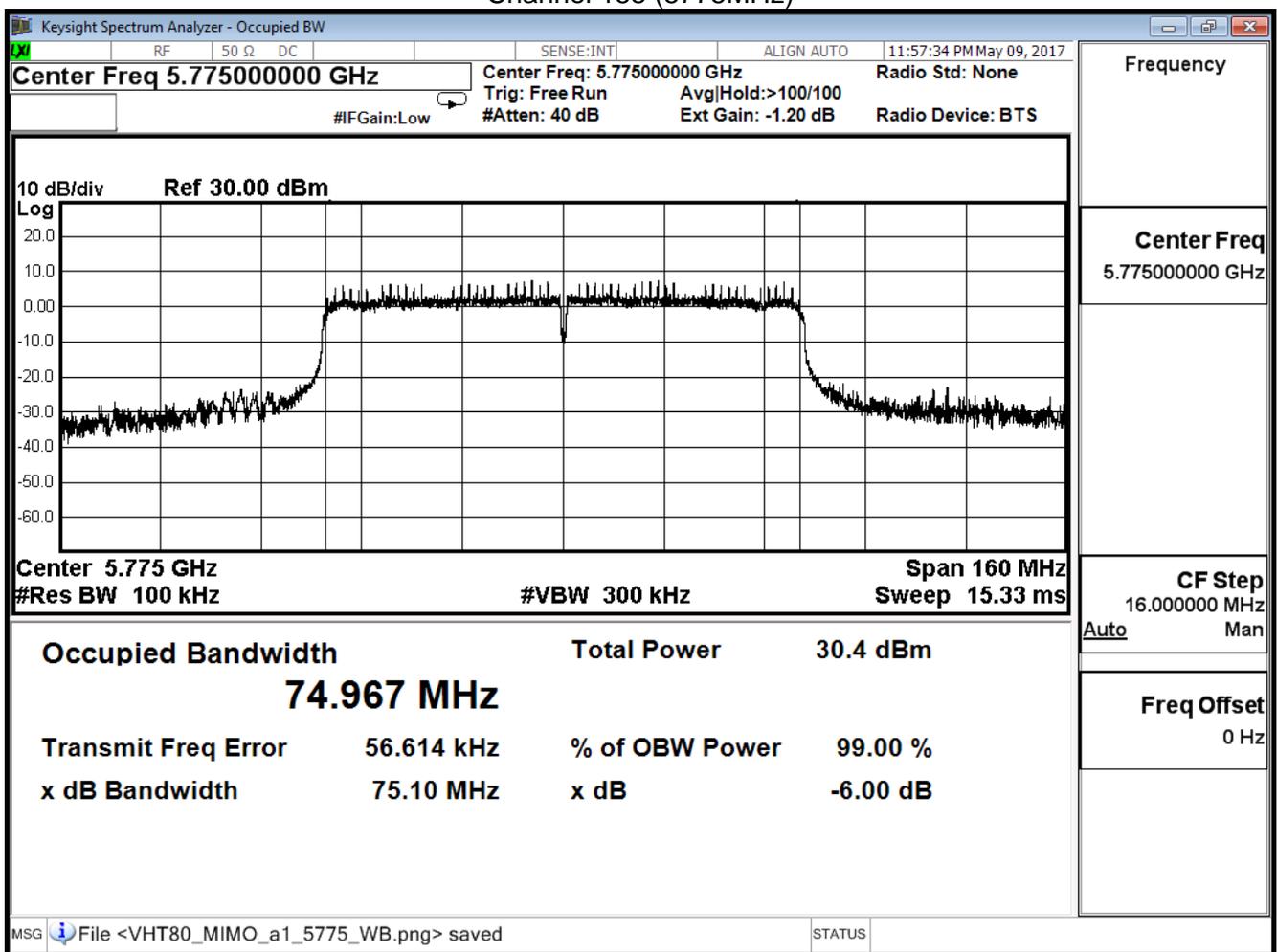
Channel 155 (5775MHz)



Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/09	Test Site	SR10-H

IEEE802.11ac(80MHz)(ANT2)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
155	5775	75.1	>0.5

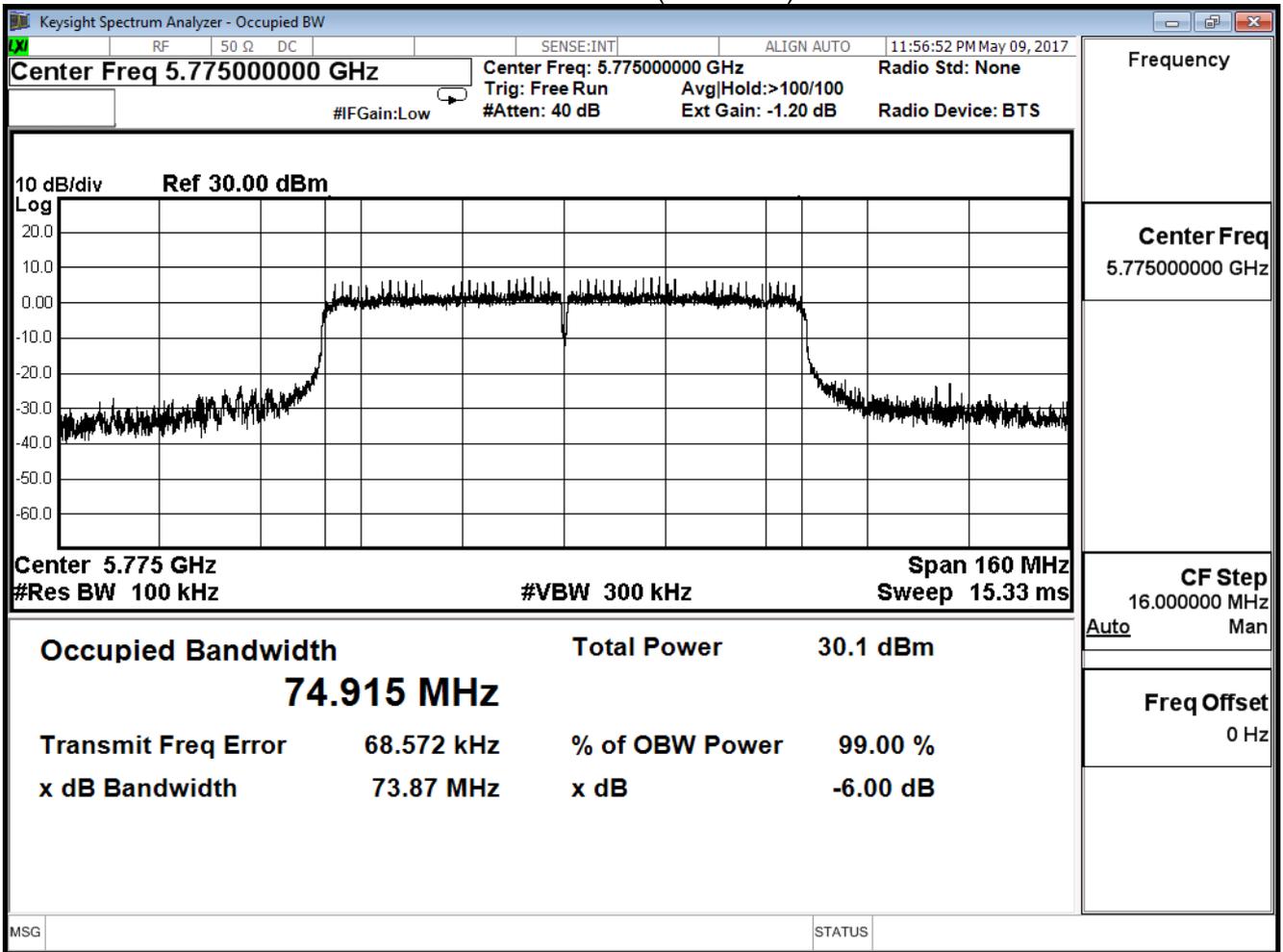
Channel 155 (5775MHz)



Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	6dB Bandwidth		
Test Mode	Mode 2: TX MIMO_ ADP: AD890326		
Date of Test	2017/05/09	Test Site	SR10-H

IEEE802.11ac(80MHz)(ANT3)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
155	5775	73.87	>0.5

Channel 155 (5775MHz)



4. Peak Transmit Output

4.1. Test Equipment

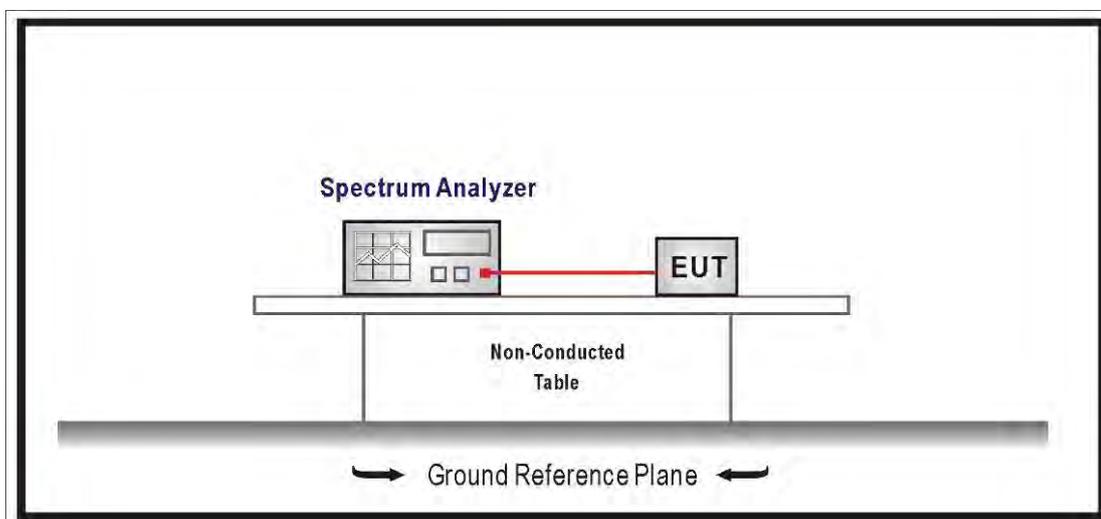
The following test equipment are used during the radiated emission tests:

Peak Transmit Output / SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2018/03/12

Note: All equipment that need to calibrate are with calibration period of 1 year.

4.2. Test Setup



4.3. Limits

1. For the band 5.15-5.25 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 1W. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
2. For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. The maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
3. For the band 5.25-5.35 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 250 mW. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
4. For the band 5.725-5.850 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 1W. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

4.4. Test Procedure

The EUT was setup to ANSI C63.10: 2013; tested to U-NII test procedure of 789033 D02 V01R02 for compliance to FCC 47CFR Subpart E requirements. The Method SA-1 of the Maximum conducted output power was used.

Set RBW=1MHz, VBW=3MHz with RMS detector and trace average 100 traces in power averaging mode. Set span to encompass the entire emission bandwidth (EBW) of the signal. Compute power by integrating the spectrum across the 26 dB EBW of the signal.

4.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

4.6. Test Result

Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: TX CDD_ ADP: AD890326		
Date of Test	2017/05/11	Test Site	SR10-H

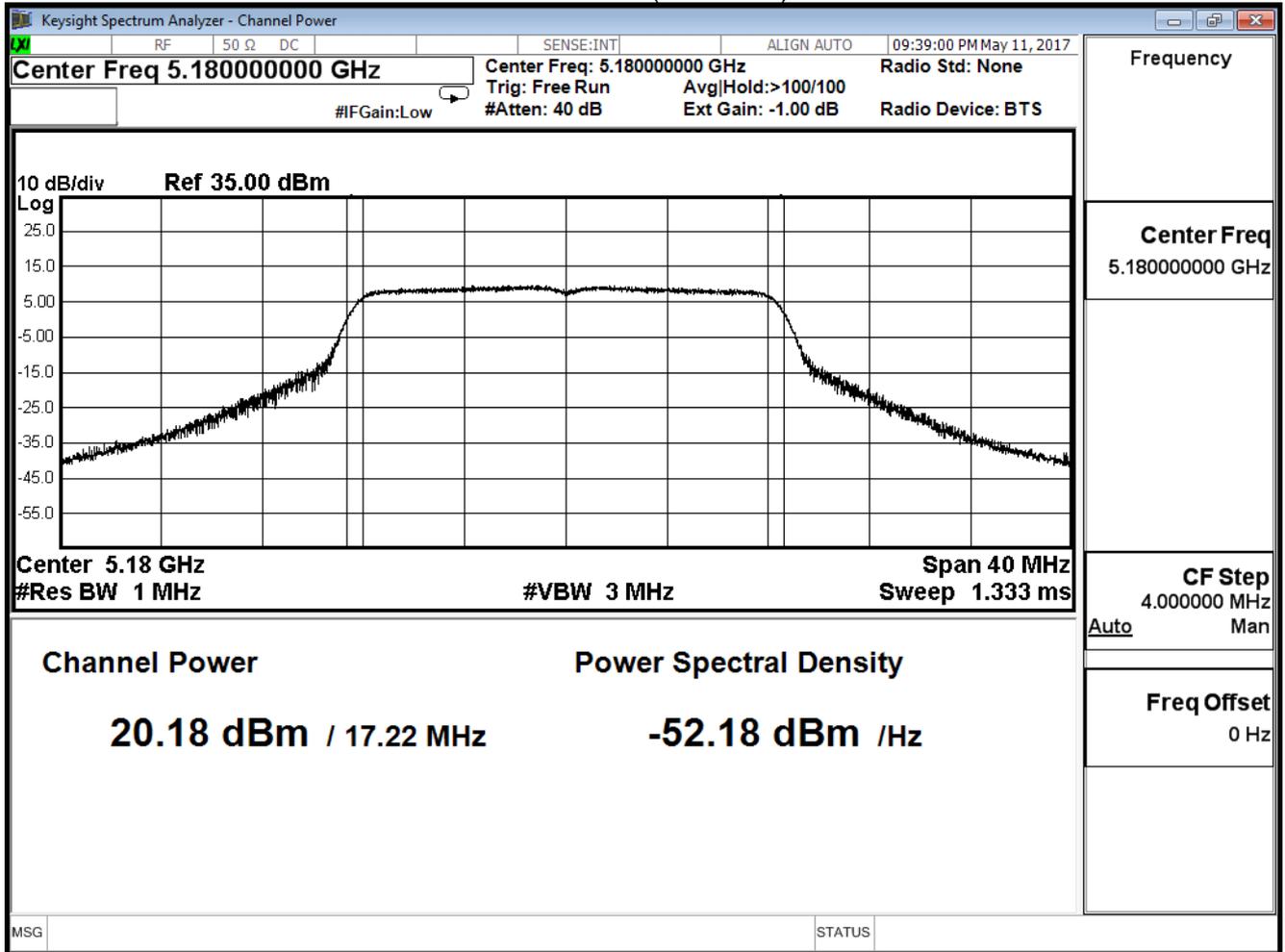
802.11a (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
36	5180	20.18	≤ 30
44	5220	20.10	≤ 30
48	5240	20.30	≤ 30

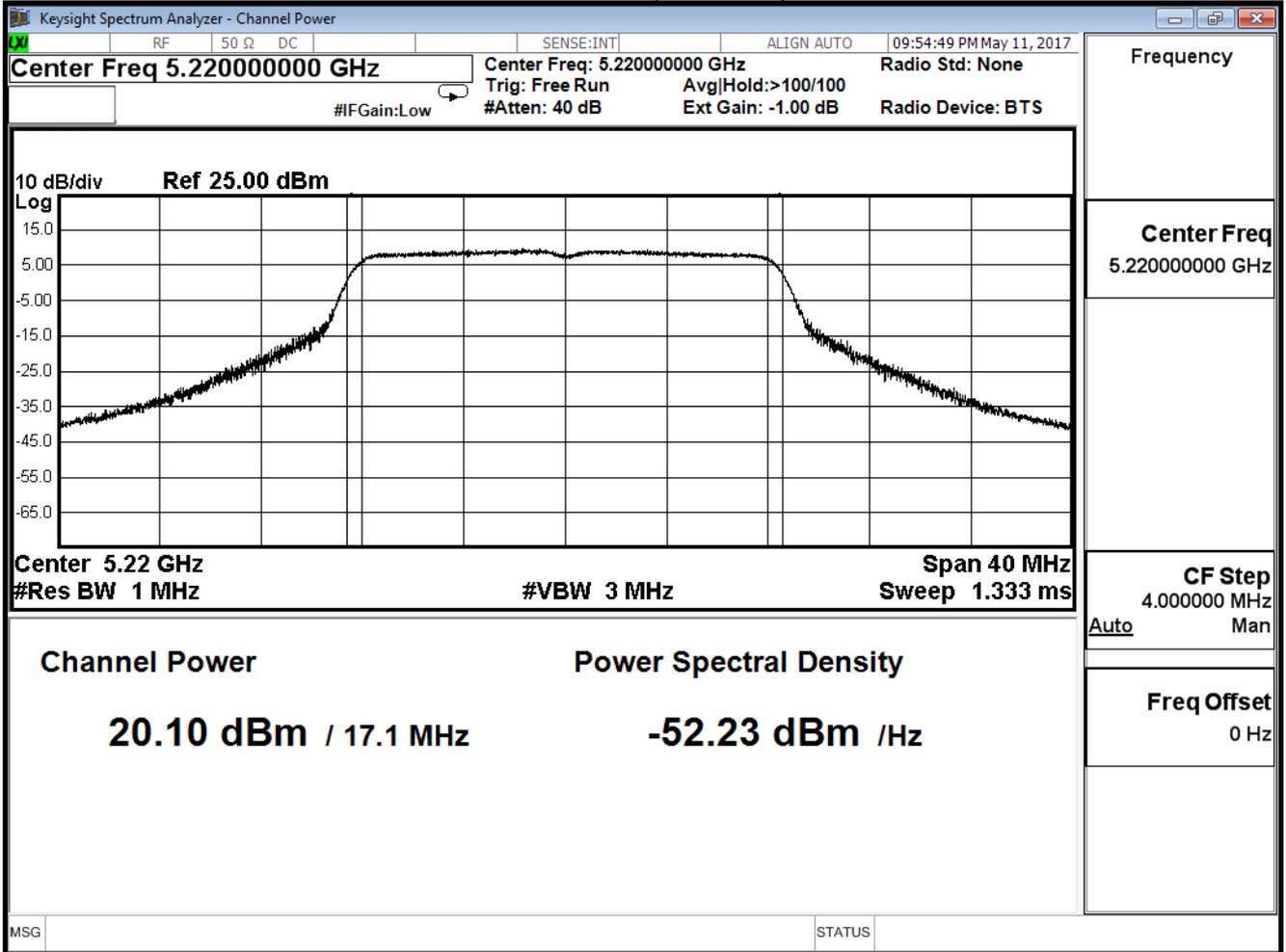
The worst emission of data rate is 6 Mbps

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
36	5180	20.18	--	--	--	--	--	--	≤30dBm
44	5220	20.10	19.95	19.91	18.88	18.82	18.76	18.71	
48	5240	20.30	--	--	--	--	--	--	

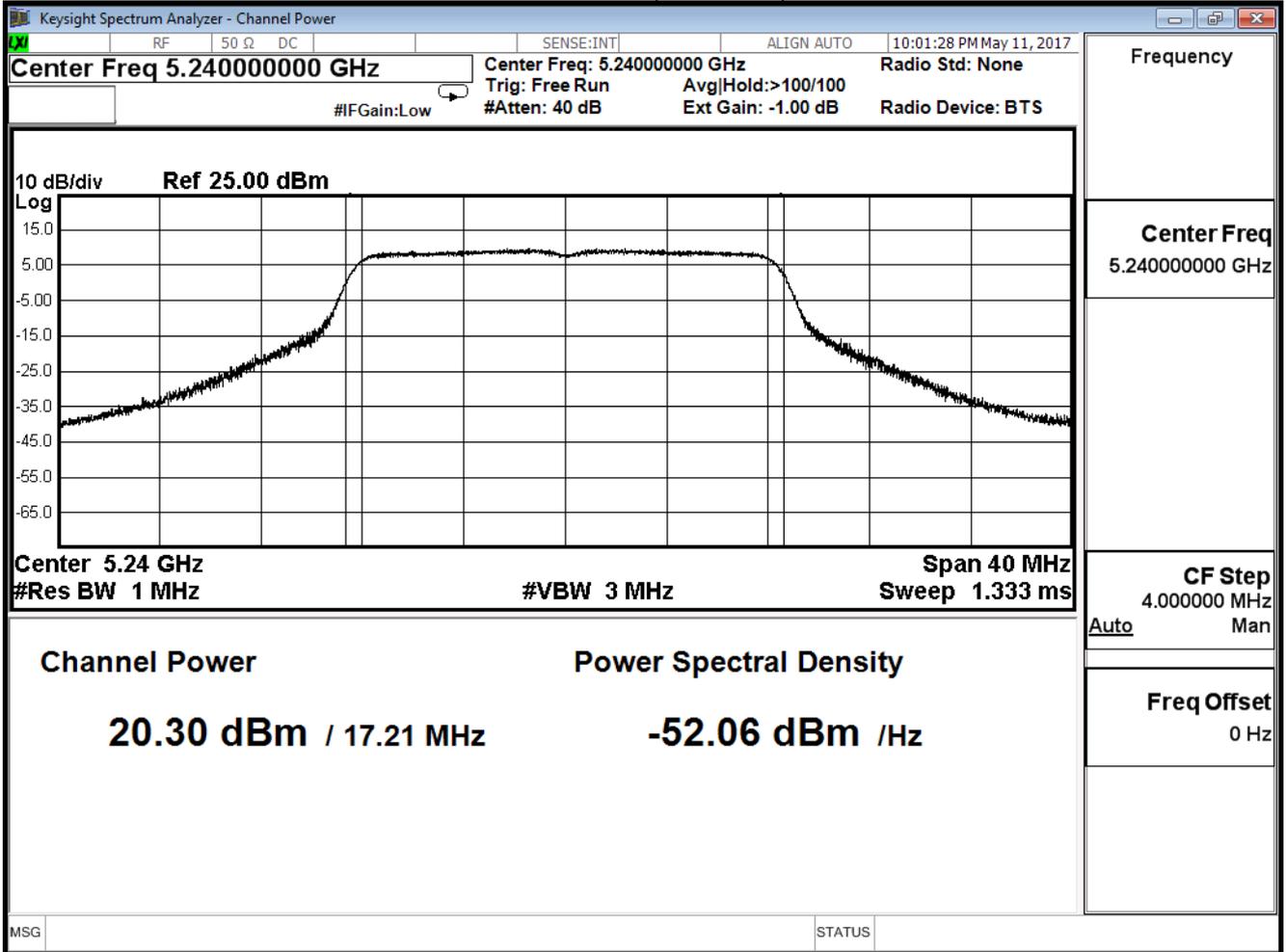
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: TX CDD_ ADP: AD890326		
Date of Test	2017/05/11	Test Site	SR10-H

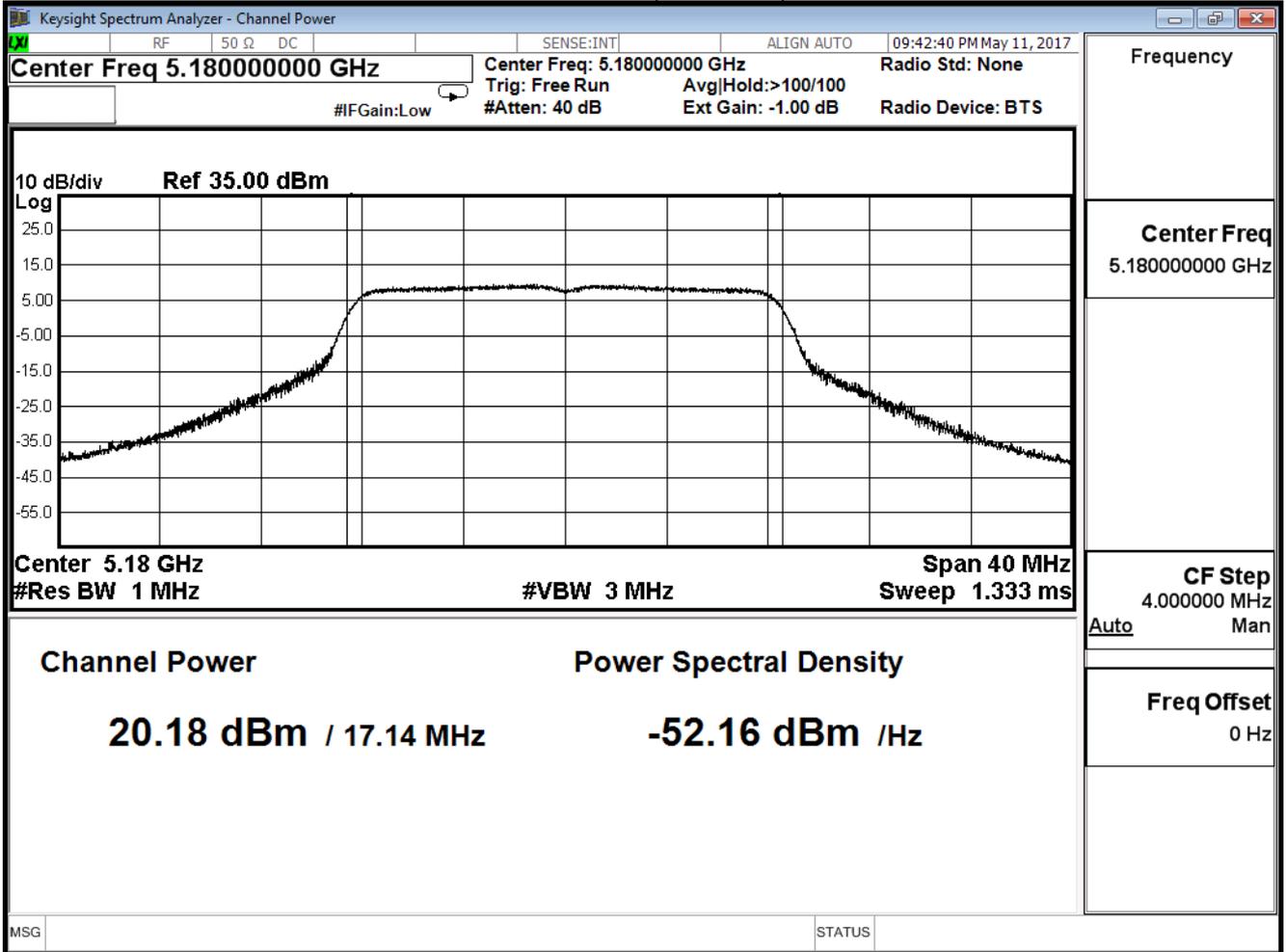
802.11a (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
36	5180	20.18	≤ 30
44	5220	20.07	≤ 30
48	5240	20.29	≤ 30

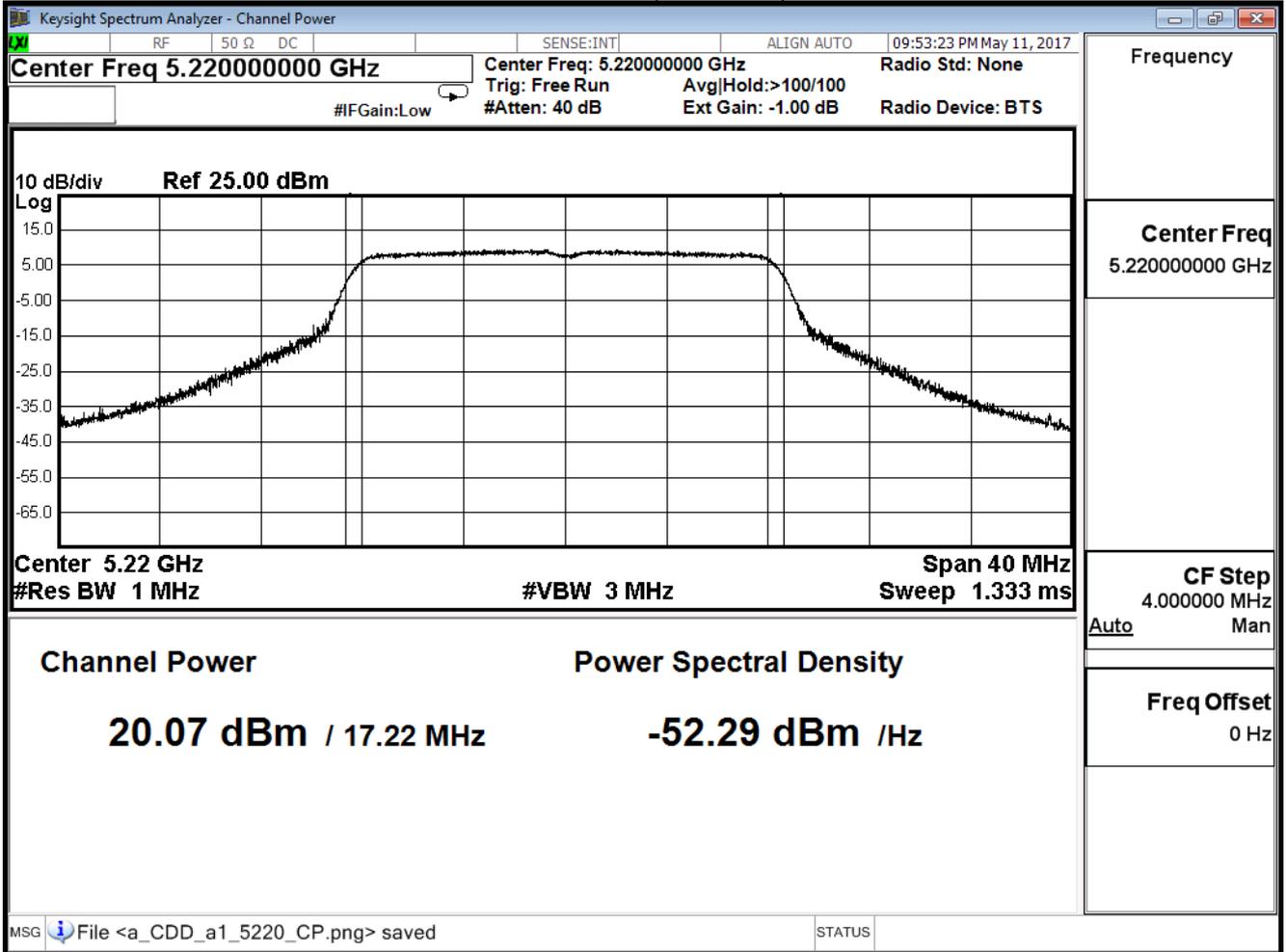
The worst emission of data rate is 6 Mbps

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
36	5180	20.18	--	--	--	--	--	--	≤30dBm
44	5220	20.07	20.01	19.94	19.89	19.84	19.79	19.73	
48	5240	20.29	--	--	--	--	--	--	

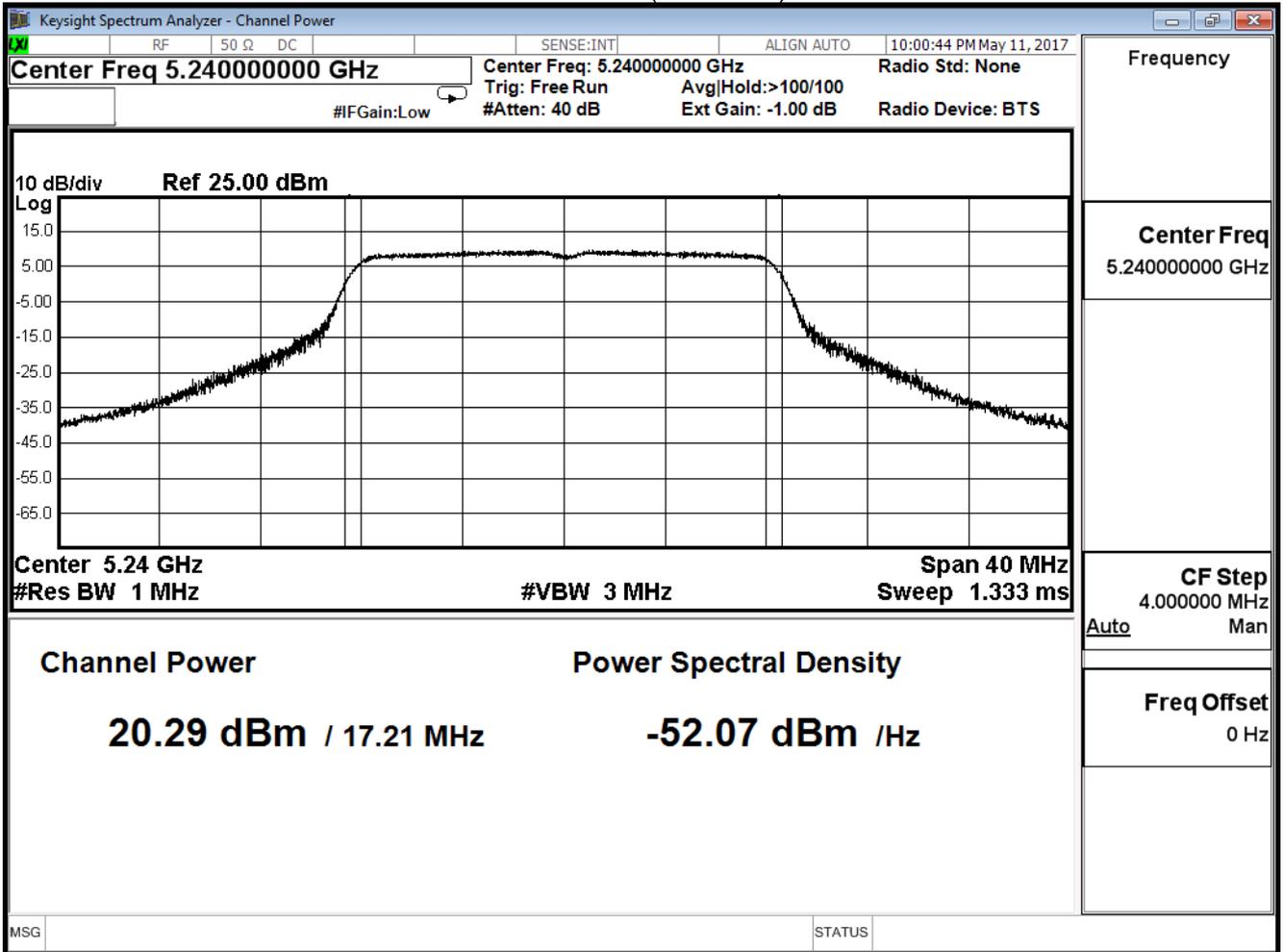
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: TX CDD_ ADP: AD890326		
Date of Test	2017/05/11	Test Site	SR10-H

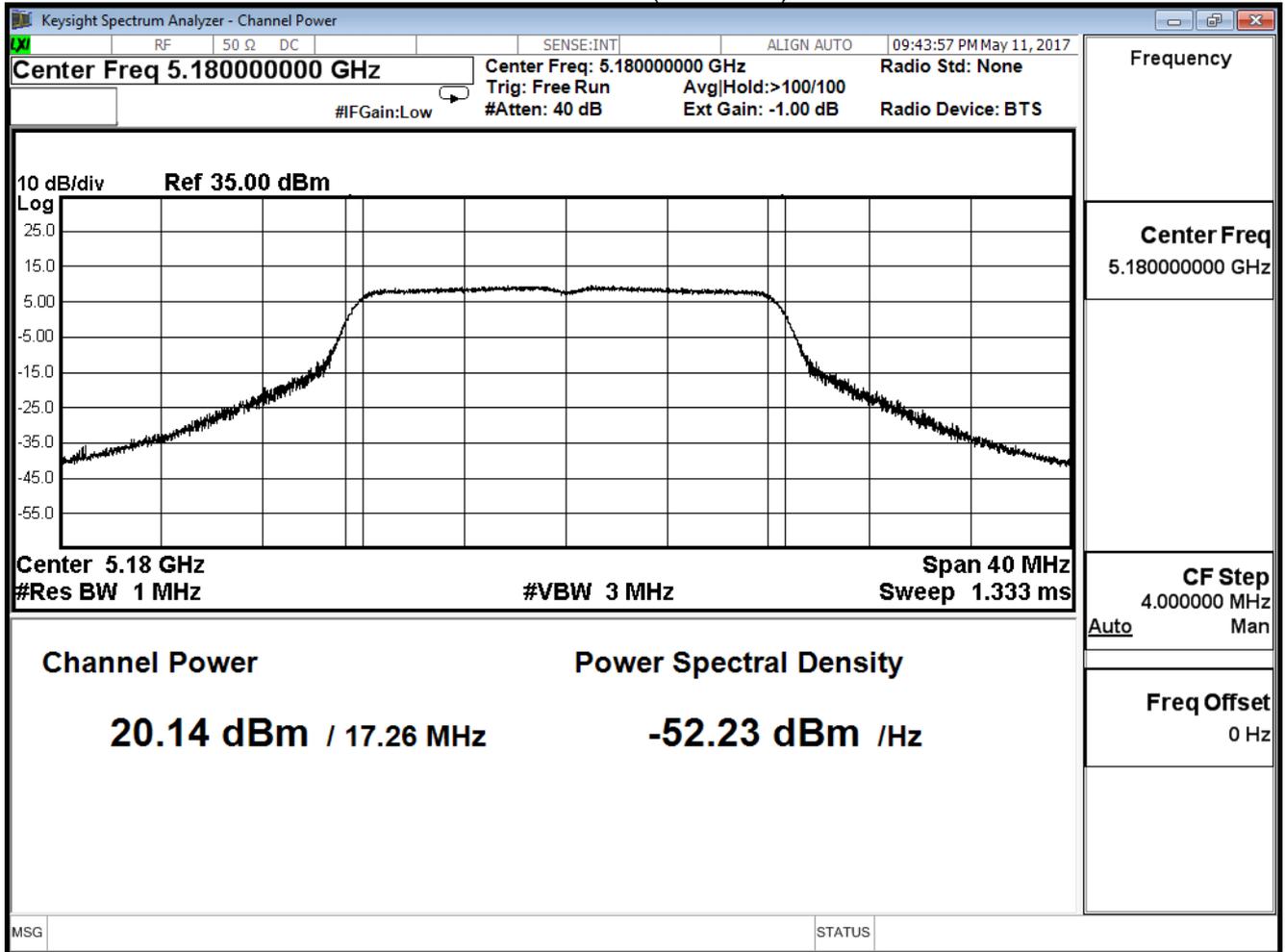
802.11a (ANT 2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
36	5180	20.14	≤ 30
44	5220	20.05	≤ 30
48	5240	20.13	≤ 30

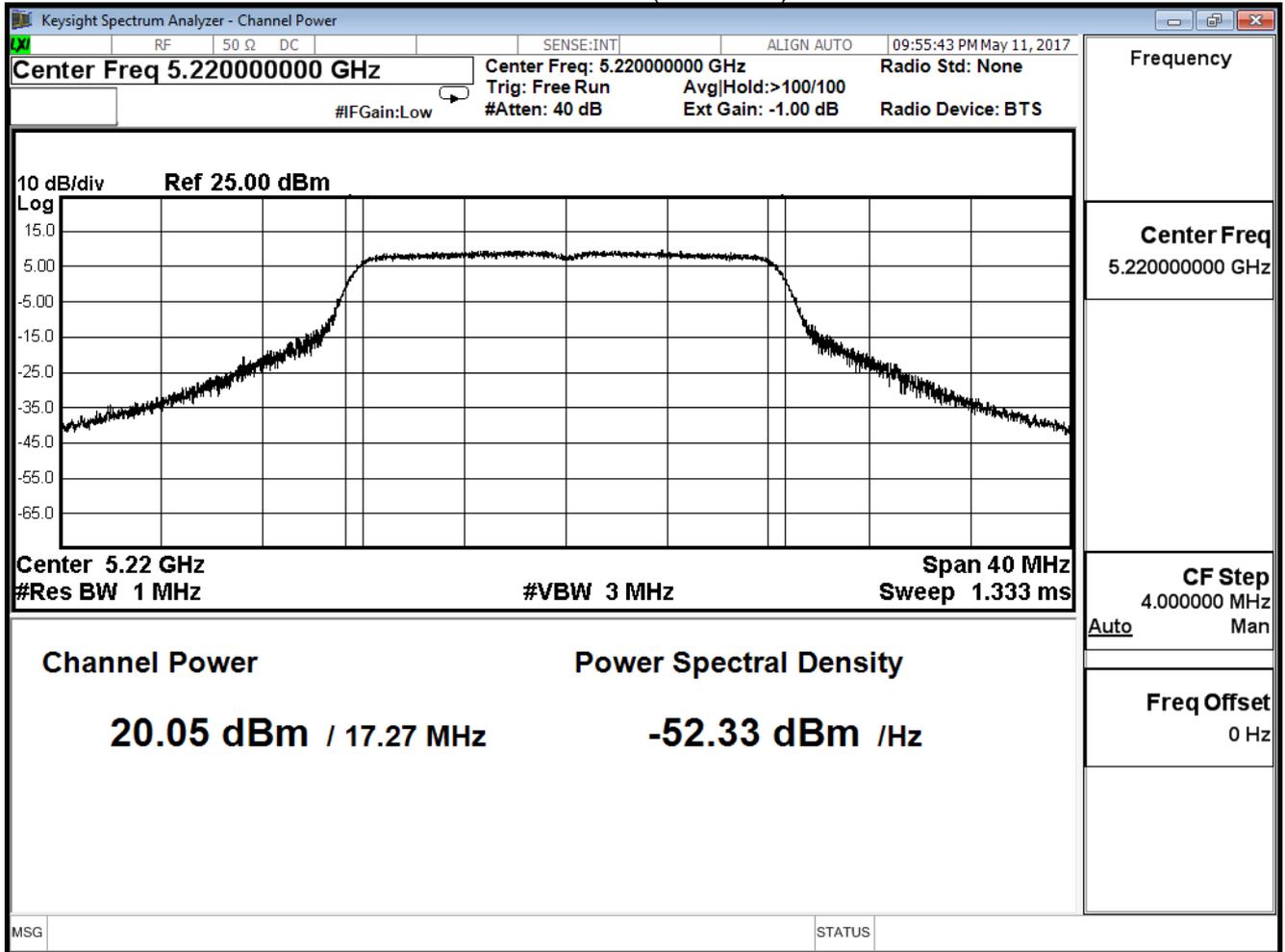
The worst emission of data rate is 6 Mbps

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
36	5180	20.14	--	--	--	--	--	--	≤30dBm
44	5220	20.05	20.1	19.94	19.89	19.83	19.79	19.94	
48	5240	20.13	--	--	--	--	--	--	

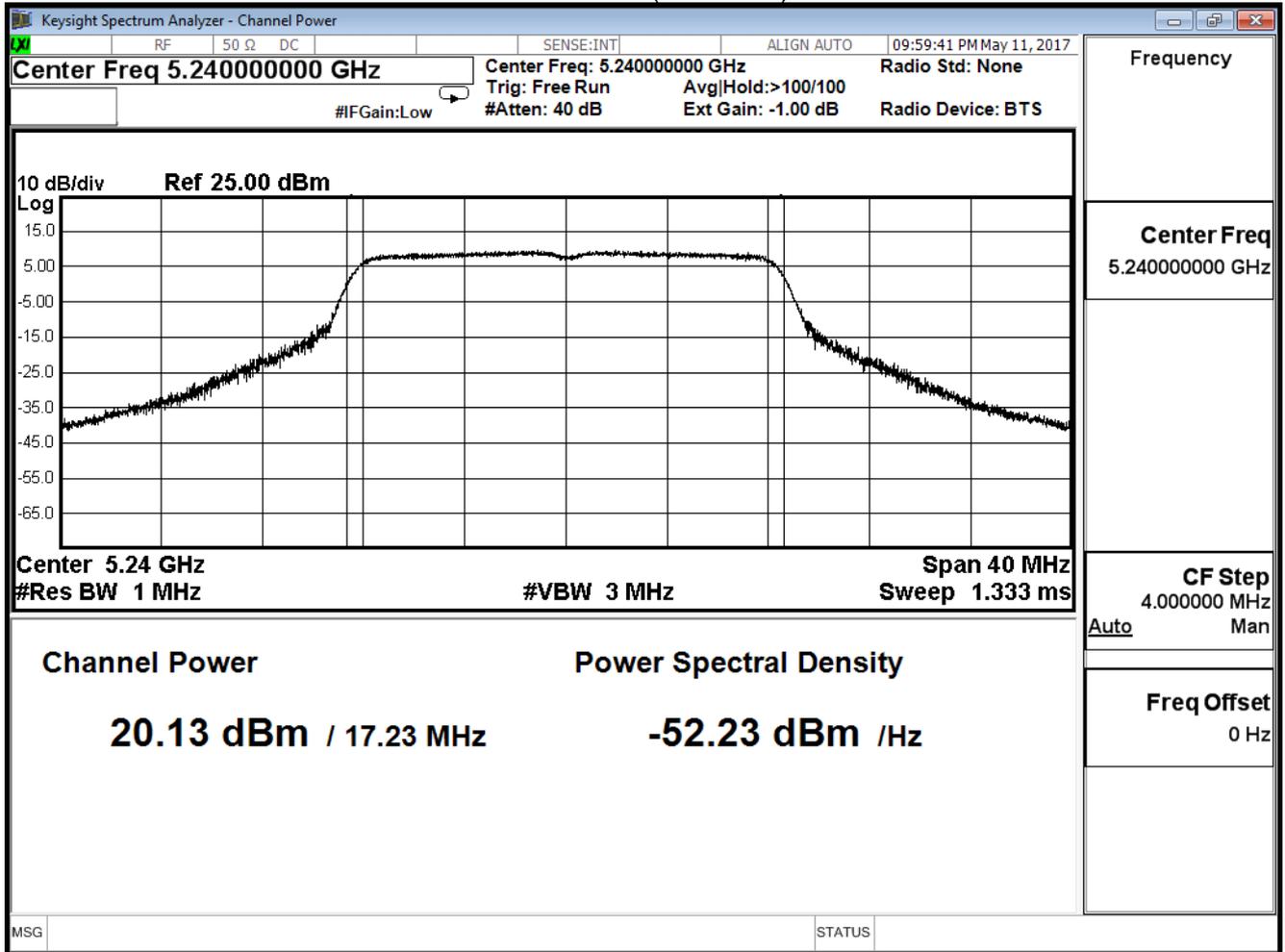
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: TX CDD_ ADP: AD890326		
Date of Test	2017/05/11	Test Site	SR10-H

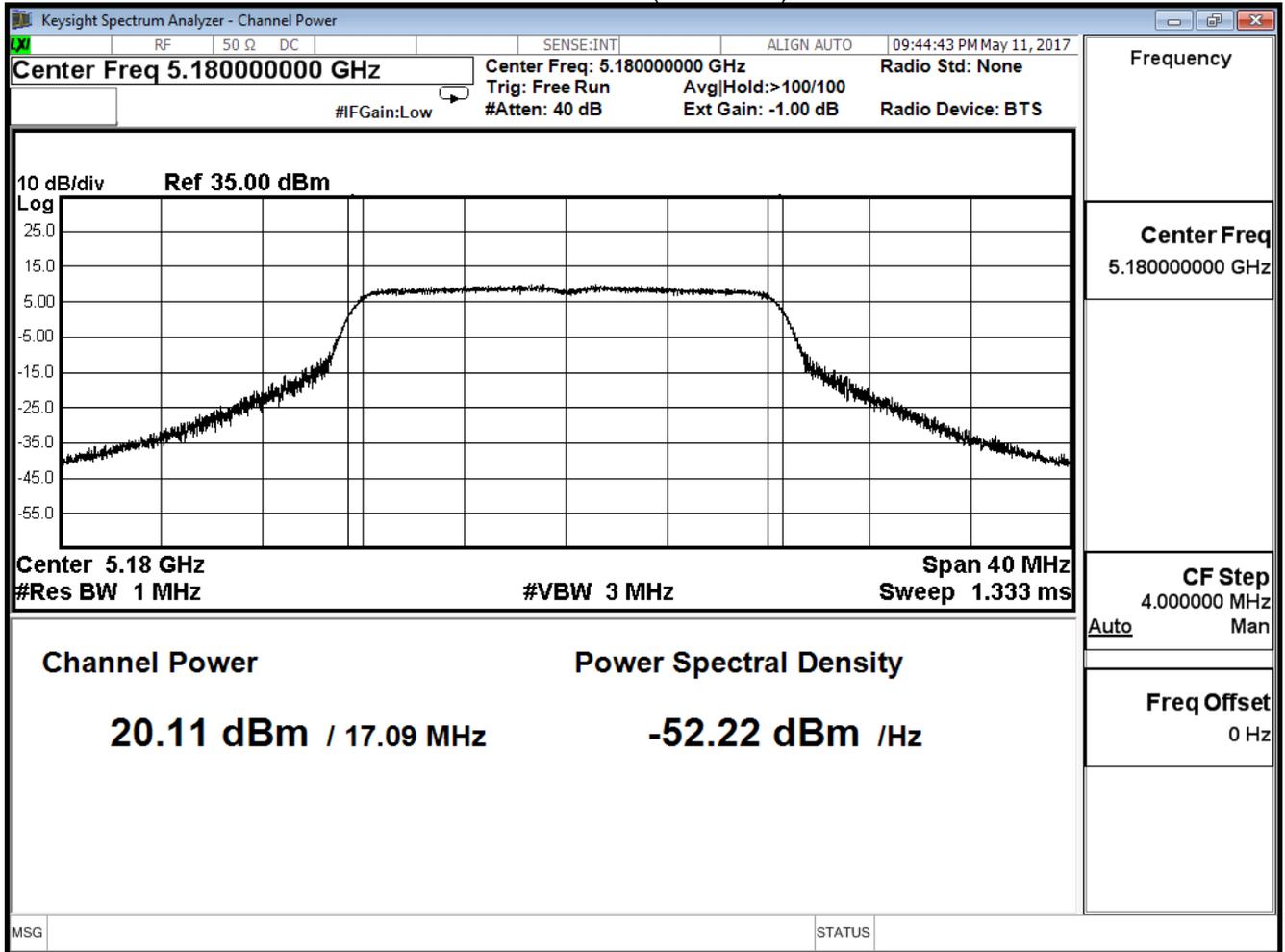
802.11a (ANT 3)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
36	5180	20.11	≤ 30
44	5220	20.01	≤ 30
48	5240	20.18	≤ 30

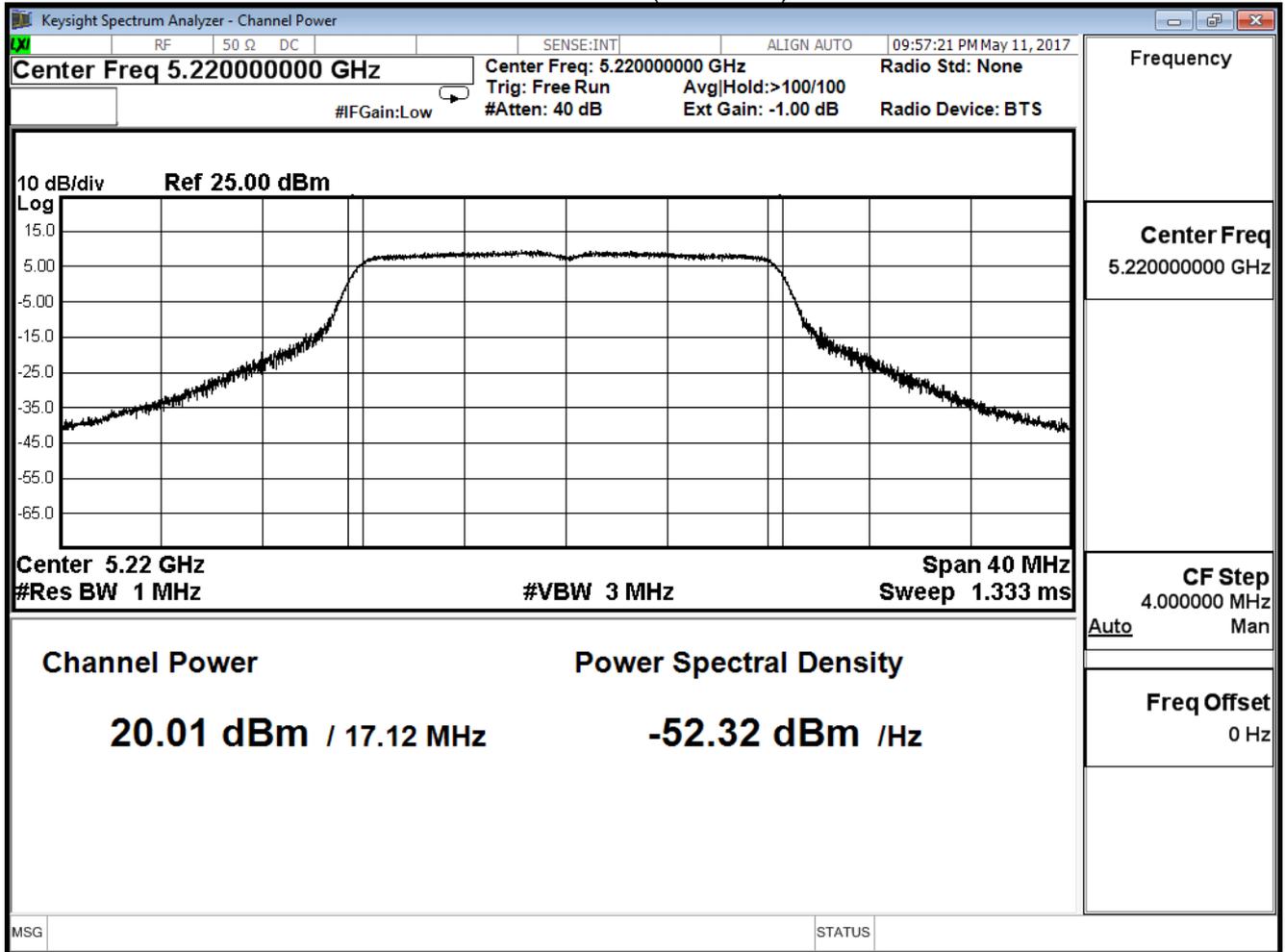
The worst emission of data rate is 6 Mbps

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
36	5180	20.11	--	--	--	--	--	--	≤30dBm
44	5220	20.01	19.97	19.92	19.89	19.82	19.78	19.72	
48	5240	20.18	--	--	--	--	--	--	

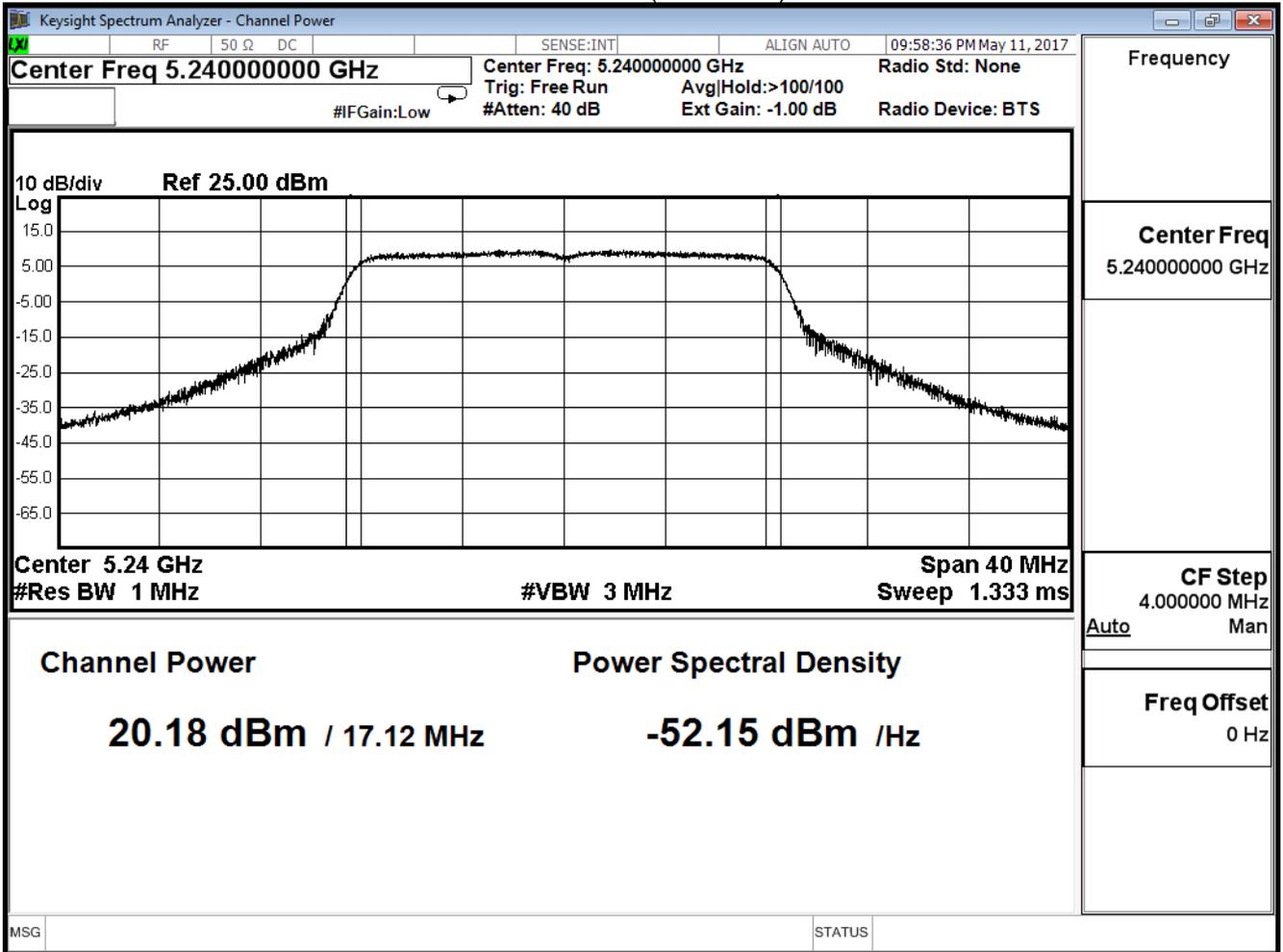
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



Product	Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: TX CDD_ ADP: AD890326		
Date of Test	2017/05/11	Test Site	SR10-H

802.11a(ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
36	5180	26.17	≤ 30
44	5220	26.08	≤ 30
48	5240	26.25	≤ 30