

FCC Test Report

Product Name : Wireless-AC2600 Dual WAN VPN Wireless Router

Trade Name : ASUS

Model No. : BRT-AC828/M2

FCC ID. : MSQ-RT0V00

Applicant : ASUSTeK COMPUTER INC.

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

Date of Receipt : Feb. 17, 2016

Issued Date : Mar. 04, 2016

Report No. : 1620268R-RFUSP56V00

Report Version : V1.0



The test results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

Test Report Certification

Issued Date : Mar. 04, 2016

Report No. : 1620268R-RFUSP56V00

 Quietek

a  DEKRA company

Product Name : Wireless-AC2600 Dual WAN VPN Wireless Router
 Applicant : ASUSTeK COMPUTER INC.
 Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
 Manufacturer : ASUSTeK COMPUTER INC.
 Model No. : BRT-AC828/M2
 FCC ID. : MSQ-RT0V00
 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 15.407:2014
 ANSI C63.10: 2013
 Test Lab : Quietek Hsin Chu Laboratory
 Test Result : Complied

The test results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of Quietek Corporation.

Documented By :



(Carol Tsai / Senior Engineering Adm. Specialist)

Tested By :



(Bruno Tsai / Engineer)

Approved By :



(Roy Wang / Director)

Revision History

Report No.	Version	Description	Issued Date
15B0233R-RFUSP56V00	V1.0	Initial issue of report	Nov. 23, 2015
1620125R-RFUSP57V00	V1.0	Change components part of the EUT, modify the emission (under the 1GHz) and internal photo. Add one TX/RX Antenna (ASC / RFDPA151300SBLB803_V01 (Gold)), this antenna gain is less than original.	Feb. 17, 2016
1620268R-RFUSP56V00	V1.0	Add the test data of Beamforming Mode.	Mar. 04, 2016

Laboratory Information

We, **Quietek Corporation**, 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: 365520
Canada	:	IC, Submission No: 181665 / IC Registration Number: 4075C-4

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site:<http://www.quietek.com/english/about/certificates.aspx?bval=5>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : http://www.quietek.com/index_en.aspx

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1. General Information

1.1. EUT Description

Product Name	Wireless-AC2600 Dual WAN VPN Wireless Router	
Trade Name	ASUS	
Model No.	BRT-AC828/M2	
Product Type	WLAN (4TX, 4RX)	
Frequency Range/ Channel Number	IEEE 802.11a/ IEEE 802.11n	5180~5240MHz / 4 Channels
	IEEE 802.11n (40MHz)	5190~5230MHz / 2 Channels
	IEEE 802.11ac (80MHz)	5210~5210MHz / 1 Channel
Type of Modulation	IEEE 802.11a/n/ac	Orthogonal Frequency Division Multiplexing
Data Speed	IEEE 802.11a	6Mbps,9Mbps,12Mbps,18Mbps,24Mbps,36Mbps,48Mbps,54Mbps
	IEEE 802.11n	Support a subset of the combination of GI, MCS 0~MCS 7 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

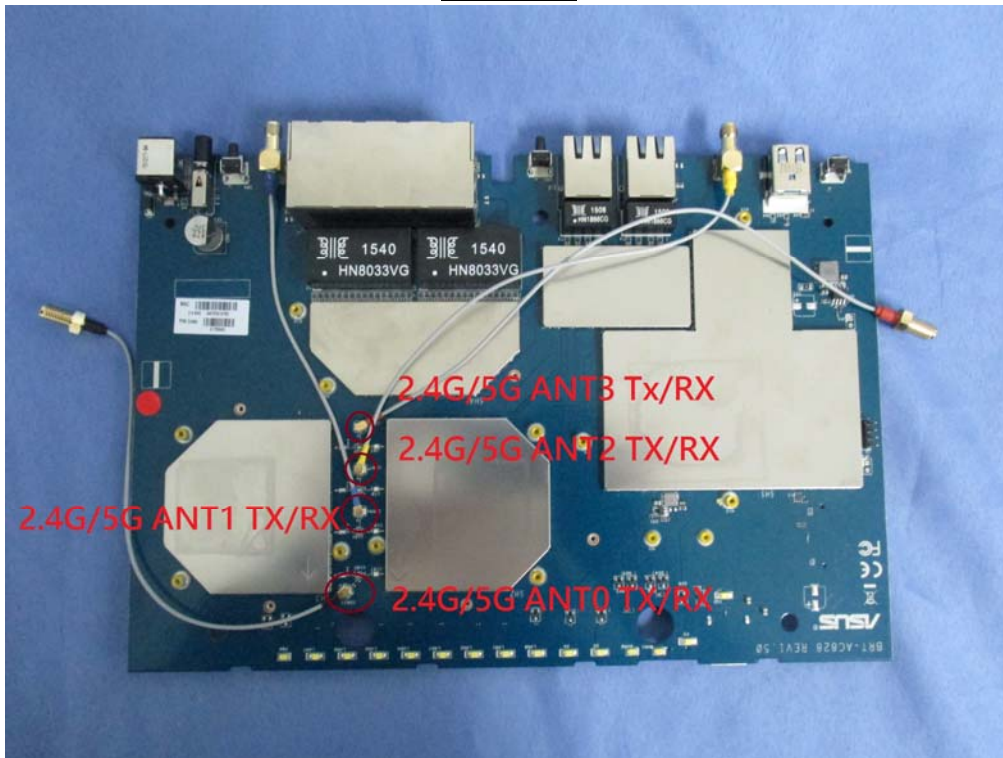
Antenna Information		
Antenna Type	Dipole	
Antenna Gain	MFR. / Model	Antenna Gain
	ASC / RFDPA171300SBLB814_V01 (Red)	3.19dBi
	ASC / RFDPA151300SBLB803_V01 (Gold)	3.16dBi

Accessories Information	
Antenna	3 PCS
LAN Cable	Shielded, 1.5m
Power Adatper 1	ASUS., ADP-45BW B I/P: 100-240V~ 50-60Hz 1.2A O/P : 19V ===2.37A Cable Out: Non-Shielded, 2.2m
Power Adatper 2	ASUS., ADP-65DW B I/P: 100-240V~ 50-60Hz 1.5A O/P : 19V ===3.42A Cable Out: Non-Shielded, 2.2m
Power Adatper 3	ASUS., AD883J20 I/P: 100-240V~ 50/60Hz 1.0A O/P : 19V ===2.37A Cable Out: Non-Shielded, 2.0m
Power Adatper 4	ASUS., AD887320 I/P: 100-240V~ 50/60Hz 1.5A O/P : 19V ===3.42A Cable Out: Non-Shielded, 2.0m

ANT-TX / RX & Bandwidth

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

4TX / 4RX



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		160 MHz	
				Guard Interval		Guard Interval		Guard Interval		Guard Interval	
				800ns	400ns	800ns	400ns	800ns	400ns	800ns	400ns
1	0	BPSK	1/2	6.5	7.2	13.5	15	29.3	32.5	58.5	65
	1	QPSK	1/2	13	14.4	27	30	58.5	65	117	130
	2	QPSK	3/4	19.5	21.7	40.5	45	87.8	97.5	175.5	195
	3	16-QAM	1/2	26	28.9	54	60	117	130	234	260
	4	16-QAM	3/4	39	43.3	81	90	175.5	195	351	390
	5	64-QAM	2/3	52	57.8	108	120	234	260	468	520
	6	64-QAM	3/4	58.5	65	121.5	135	263.3	292.5	526.5	585
	7	64-QAM	5/6	65	72.2	135	150	292.5	325	585	650
	8	256-QAM	3/4	78	86.7	162	180	351	390	702	780
	9	256-QAM	5/6	N/A	N/A	180	200	390	433.3	780	866.7
2	0	BPSK	1/2	13	14.4	27	30	58.6	65	117	130
	1	QPSK	1/2	26	28.8	54	60	117	130	234	260
	2	QPSK	3/4	39	43.4	81	90	175.6	195	351	390
	3	16-QAM	1/2	52	57.8	108	120	234	260	468	520
	4	16-QAM	3/4	78	86.6	162	180	351	390	702	780
	5	64-QAM	2/3	104	115.6	216	240	468	520	936	1040
	6	64-QAM	3/4	117	130	243	270	526.6	585	1053	1170
	7	64-QAM	5/6	130	144.4	270	300	585	650	1170	1300
	8	256-QAM	3/4	156	173.4	324	360	702	780	1404	1560
	9	256-QAM	5/6	N/A	N/A	360	400	780	866.6	1560	1733.4
3	0	BPSK	1/2	13	14.4	27	30	58.6	65	117	130
	1	QPSK	1/2	26	28.8	54	60	117	130	234	260
	2	QPSK	3/4	39	43.4	81	90	175.6	195	351	390
	3	16-QAM	1/2	52	57.8	108	120	234	260	468	520
	4	16-QAM	3/4	78	86.6	162	180	351	390	702	780
	5	64-QAM	2/3	104	115.6	216	240	468	520	936	1040
	6	64-QAM	3/4	117	130	243	270	526.6	585	1053	1170
	7	64-QAM	5/6	130	144.4	270	300	585	650	1170	1300
	8	256-QAM	3/4	156	173.4	324	360	702	780	1404	1560
	9	256-QAM	5/6	N/A	N/A	360	400	780	866.6	1560	1733.4

4	0	BPSK	1/2	26.0	28.9	54.0	60.0	117.0	130.0	234.0	260.0
	1	QPSK	1/2	52.0	57.8	108.0	120.0	234.0	260.0	468.0	520.0
	2	QPSK	3/4	78.0	86.7	162.0	180.0	351.0	390.0	702.0	780.0
	3	16-QAM	1/2	104.0	115.6	216.0	240.0	468.0	520.0	936.0	1040.0
	4	16-QAM	3/4	156.0	173.3	342.0	360.0	702.0	780.0	1404.0	1560.0
	5	64-QAM	2/3	208.0	231.1	432.0	480.0	936.0	1040.0	1872.0	2080.0
	6	64-QAM	3/4	234.0	260.0	486.0	540.0	1053.0	1170.0	2106.0	2340.0
	7	64-QAM	5/6	260.0	288.9	540.0	600.0	1170.0	1300.0	N/A	N/A
	8	256-QAM	3/4	312.0	346.7	648.0	720.0	1404.0	1560.0	2808.0	3120.0
	9	256-QAM	5/6	N/A	N/A	720.0	800.0	1560.0	1733.3	3120.0	3466.7

IEEE 802.11a & IEEE 802.11n (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

IEEE 802.11n (40MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz				

IEEE 802.11ac (80MHz)

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

Note:

1. This device is an Wireless-AC2600 Dual WAN VPN Wireless Router including 2.4GHz b/g/n (4x4) and 5GHz a/n/ac (4x4) transmitting and receiving function.
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart E Paragraph 15.407.
3. 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.
4. The 5.2GHz is performed according to the UNII Test Procedures New Rules.
5. The function of the 2.4GHz & 5.8GHz transmitting is measured and makes a test report of the report number: 1620125R-RFUSP37V00 & 1620268R-RFUSP56V00-A.
6. This device is a composite device in accordance with Part 15 regulations. The receiving function receiving was tested and its test report number is 1620125R-RFUSP01V00.

1.2. Test Mode

Quietek 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: Transmit_Beamforming Mode_Adapter 1
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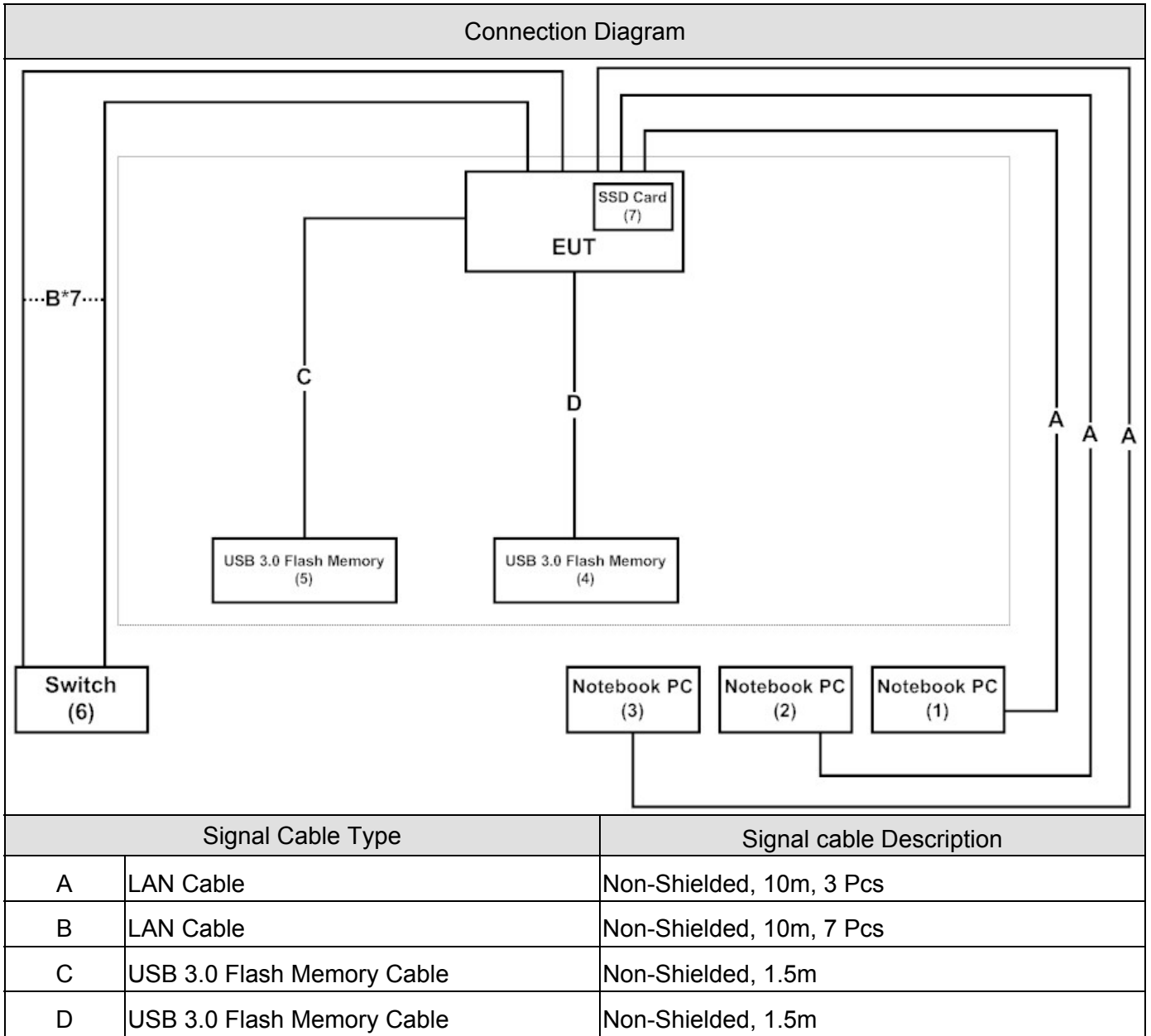
Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11ac (80MHz)	42	0+1+2+3	N/A
99 % & 26dB Bandwidth	11a	36/44/48	0/1/2/3	Complies
	11n (20MHz)	36/44/48	0/1/2/3	Complies
	11n (40MHz)	38/46	0/1/2/3	Complies
	11ac (80MHz)	42	0/1/2/3	Complies
Peak Transmit Output	11a	36/44/48	0+1+2+3	Complies
	11n (20MHz)	36/44/48	0+1+2+3	Complies
	11n (40MHz)	38/46	0+1+2+3	Complies
	11ac (80MHz)	42	0+1+2+3	Complies
Peak Power Spectrum Density	11a	36/44/48	0+1+2+3	Complies
	11n (20MHz)	36/44/48	0+1+2+3	Complies
	11n (40MHz)	38/46	0+1+2+3	Complies
	11ac (80MHz)	42	0+1+2+3	Complies
Radiated Emission	11a	36/44/48	0+1+2+3	N/A
	11n (20MHz)	36/44/48	0+1+2+3	N/A
	11n (40MHz)	38/46	0+1+2+3	N/A
	11ac (80MHz)	42	0+1+2+3	N/A
Band Edge	11a	36/44/48	0+1+2+3	Complies
	11n (20MHz)	36/44/48	0+1+2+3	Complies
	11n (40MHz)	38/46	0+1+2+3	Complies
	11ac (80MHz)	42	0+1+2+3	Complies
Frequency Stability	11a	36/48	0/1/2/3	N/A
	11n (20MHz)	36/48	0/1/2/3	N/A
	11n (40MHz)	38/46	0/1/2/3	N/A
	11ac (80MHz)	42	0/1/2/3	N/A

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	Lenovo	B590	WB1529782	DoC	Non-Shielded, 1.8m, one ferrite core bonded
2	Notebook PC	ASUS	K45VD	K45VD-0343G31 10M	DoC	Non-Shielded, 1.8m
3	Notebook PC	ACER	MS2296	LUSCV02139115 0332C2000	DoC	Non-Shielded, 2.5m one ferrite core bonded
4	USB 3.0 Flash Memory	Verbatim	16GB	N/A	DoC	--
5	USB 3.0 Flash Memory	Verbatim	16GB	N/A	DoC	--
6	Switch	D-Link	DGS1216T	F360298000042	DoC	--
7	SSD Card	Transcend	TS512GM TS800	C18573-0461	DoC	--

1.4. Configuration of tested System



1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the telnet command 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
Temperature (°C)	FCC PART 15 E 15.407 Conducted Emission	15 - 35	20
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 99 % & 26dB Bandwidth	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Peak Transmit Power	15 - 35	25
Humidity (%RH)		25 - 75	65
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Peak Power Spectrum	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Radiated Emission	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Band Edge	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000

2. Conducted Emission

2.1. Test Equipment

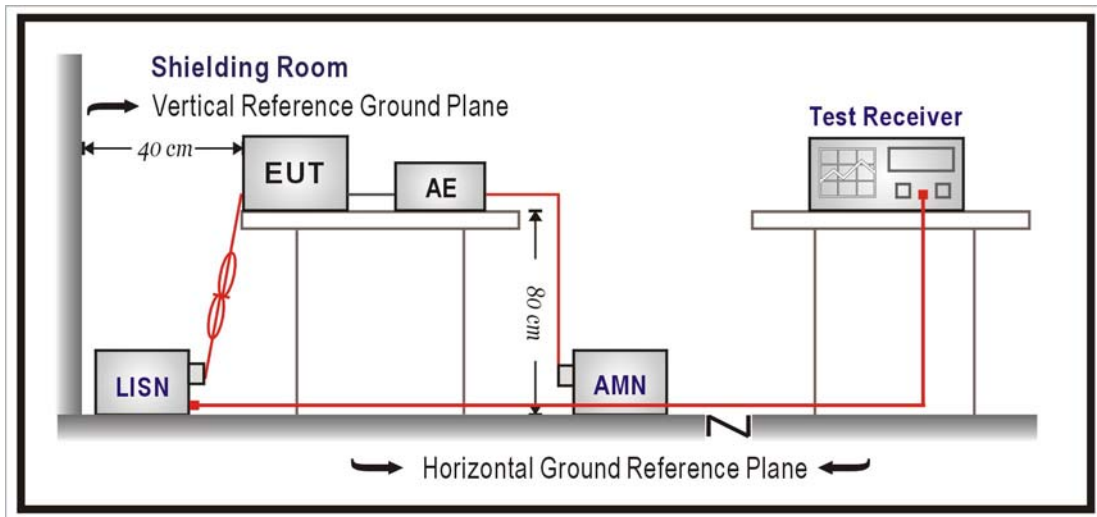
The following test equipments are used during the test:

Conducted Emission / SR2

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2016/01/25
LISN	R&S	ENV216	100092	2016/08/17
Test Receiver	R&S	ESCS 30	825442/014	2016/07/16

Note: All equipments 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

Remarks: 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

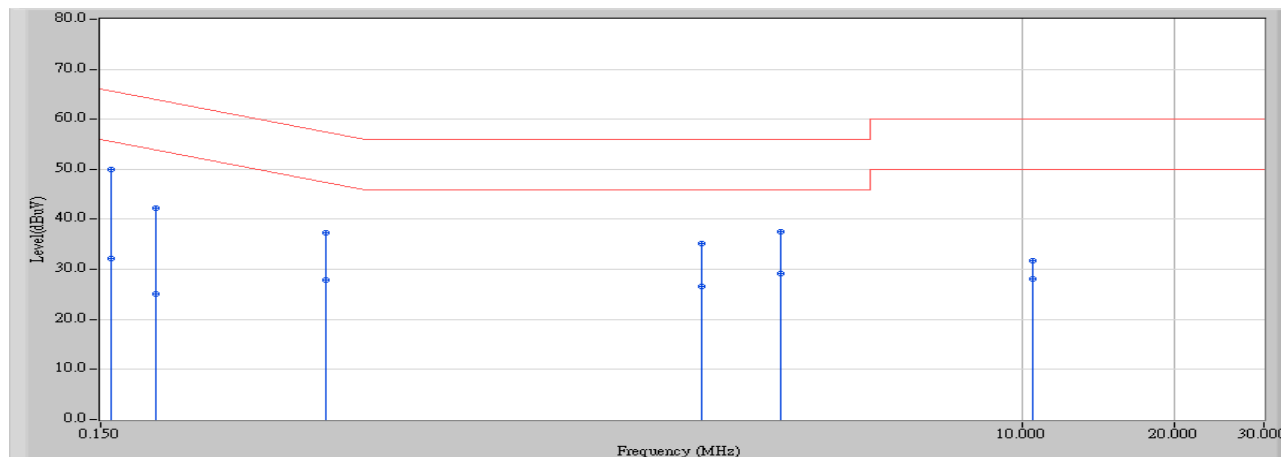
According to FCC Part 15 Subpart C Paragraph 15.207: 2014

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR2	Time : 2015/11/17 - 19:17
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-5_0818 - Line1	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_CDD Mode_Adapter 1 802.11ac(80M)_5210MHz

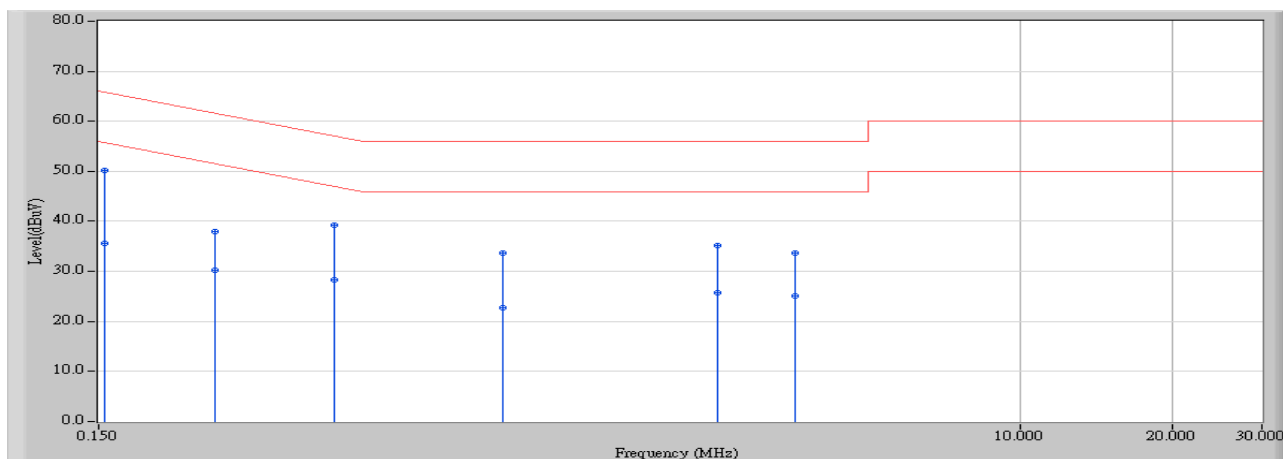


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.158	9.690	40.190	49.880	-15.698	65.578	QUASPEAK
2		0.158	9.690	22.570	32.260	-23.318	55.578	AVERAGE
3		0.193	9.688	32.600	42.288	-21.620	63.908	QUASPEAK
4		0.193	9.688	15.390	25.078	-28.830	53.908	AVERAGE
5		0.420	9.708	27.540	37.248	-20.209	57.457	QUASPEAK
6		0.420	9.708	18.130	27.838	-19.619	47.457	AVERAGE
7		2.322	9.794	25.420	35.214	-20.786	56.000	QUASPEAK
8		2.322	9.794	16.700	26.494	-19.506	46.000	AVERAGE
9		3.330	9.837	27.710	37.548	-18.452	56.000	QUASPEAK
10		3.330	9.837	19.300	29.138	-16.862	46.000	AVERAGE
11		10.498	10.120	21.690	31.810	-28.190	60.000	QUASPEAK
12		10.498	10.120	17.950	28.070	-21.930	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	Time : 2015/11/17 - 19:23
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-5_0818 - Line2	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_CDD Mode_Adapter 1 802.11ac(80M)_5210MHz

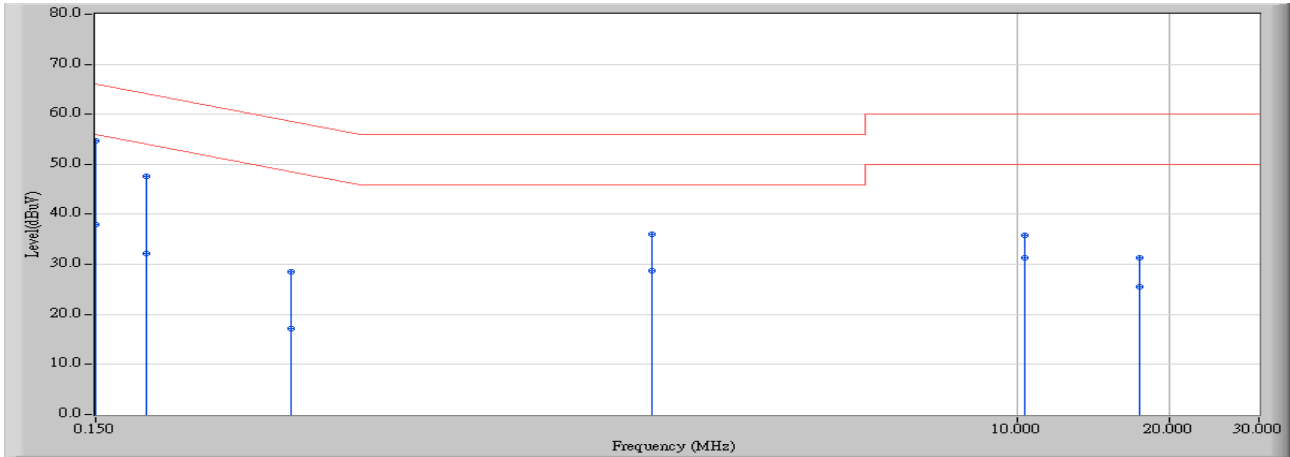


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.154	9.762	40.490	50.252	-15.535	65.786	QUASPEAK
2		0.154	9.762	25.830	35.592	-20.195	55.786	AVERAGE
3		0.255	9.772	28.290	38.062	-23.515	61.577	QUASPEAK
4		0.255	9.772	20.470	30.242	-21.335	51.577	AVERAGE
5		0.439	9.792	29.490	39.282	-17.798	57.079	QUASPEAK
6		0.439	9.792	18.540	28.332	-18.748	47.079	AVERAGE
7		0.943	9.809	23.830	33.639	-22.361	56.000	QUASPEAK
8		0.943	9.809	12.940	22.749	-23.251	46.000	AVERAGE
9		2.513	9.890	25.240	35.130	-20.870	56.000	QUASPEAK
10		2.513	9.890	15.920	25.810	-20.190	46.000	AVERAGE
11		3.576	9.930	23.840	33.770	-22.230	56.000	QUASPEAK
12		3.576	9.930	15.180	25.110	-20.890	46.000	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	Time : 2015/11/17 - 14:14
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-5_0818 - Line1	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 3: Transmit_Adapter 2 802.11ac(80M)_5210MHz

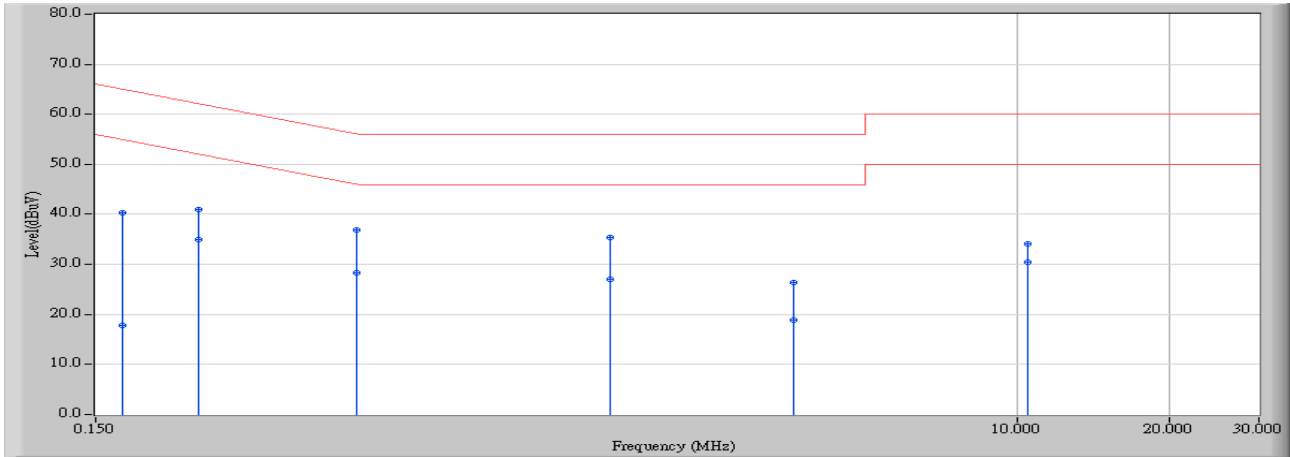


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.150	9.692	44.920	54.612	-11.388	66.000	QUASPEAK
2		0.150	9.692	28.280	37.972	-18.028	56.000	AVERAGE
3		0.189	9.687	37.890	47.578	-16.500	64.078	QUASPEAK
4		0.189	9.687	22.590	32.278	-21.800	54.078	AVERAGE
5		0.365	9.703	18.750	28.452	-30.165	58.617	QUASPEAK
6		0.365	9.703	7.440	17.142	-31.475	48.617	AVERAGE
7		1.896	9.774	26.190	35.964	-20.036	56.000	QUASPEAK
8		1.896	9.774	18.890	28.664	-17.336	46.000	AVERAGE
9		10.298	10.116	25.720	35.836	-24.164	60.000	QUASPEAK
10		10.298	10.116	21.170	31.286	-18.714	50.000	AVERAGE
11		17.388	10.284	21.110	31.394	-28.606	60.000	QUASPEAK
12		17.388	10.284	15.310	25.594	-24.406	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	Time : 2015/11/17 - 14:16
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-5_0818 - Line2	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 3: Transmit_Adapter 2 802.11ac(80M)_5210MHz

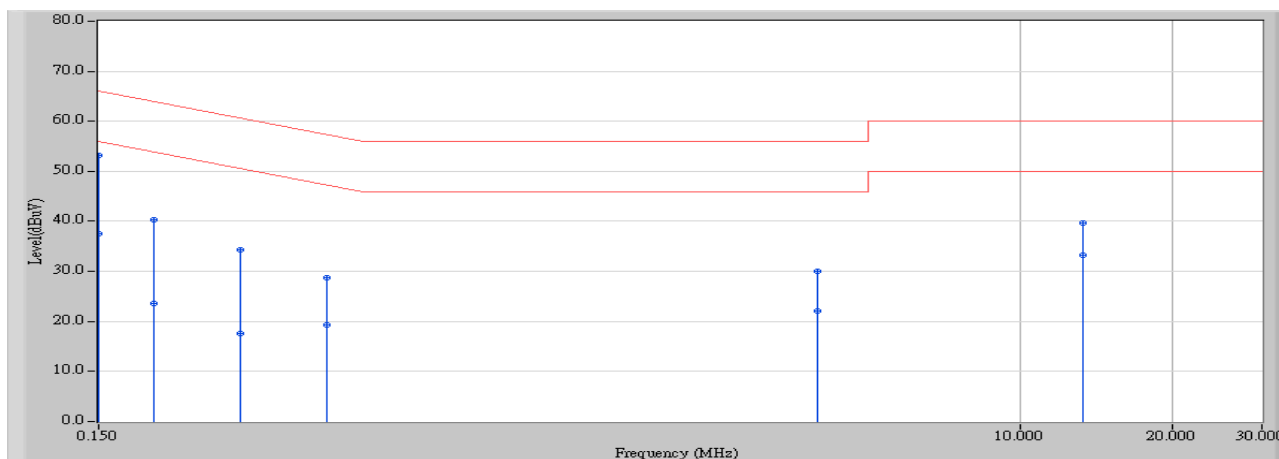


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.170	9.763	30.610	40.373	-24.611	64.983	QUASPEAK
2	0.170	9.763	7.940	17.703	-37.281	54.983	AVERAGE
3	0.240	9.771	31.230	41.001	-21.101	62.102	QUASPEAK
4	* 0.240	9.771	25.190	34.961	-17.141	52.102	AVERAGE
5	0.494	9.801	27.140	36.940	-19.164	56.104	QUASPEAK
6	0.494	9.801	18.440	28.240	-17.864	46.104	AVERAGE
7	1.564	9.844	25.460	35.304	-20.696	56.000	QUASPEAK
8	1.564	9.844	17.190	27.034	-18.966	46.000	AVERAGE
9	3.603	9.931	16.370	26.301	-29.699	56.000	QUASPEAK
10	3.603	9.931	8.890	18.821	-27.179	46.000	AVERAGE
11	10.443	10.143	23.950	34.092	-25.908	60.000	QUASPEAK
12	10.443	10.143	20.390	30.532	-19.468	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	Time : 2015/11/19 - 10:20
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-5_0818 - Line1	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 4: Transmit_Adapter 3 802.11ac(80M)_5210MHz

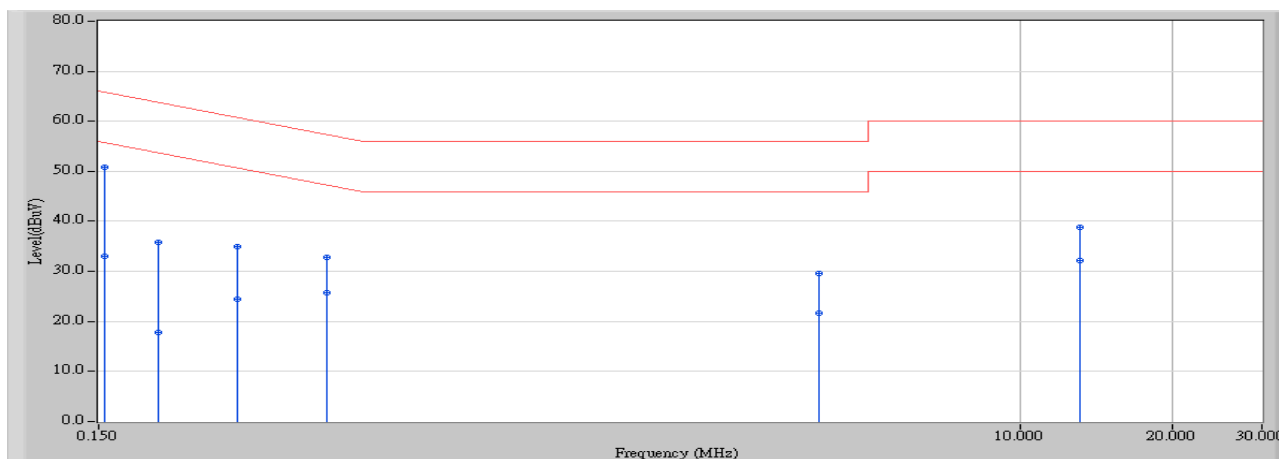


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.150	9.692	43.480	53.172	-12.828	66.000	QUASPEAK
2		0.150	9.692	27.880	37.572	-18.428	56.000	AVERAGE
3		0.193	9.688	30.680	40.368	-23.540	63.908	QUASPEAK
4		0.193	9.688	13.950	23.638	-30.270	53.908	AVERAGE
5		0.287	9.695	24.570	34.265	-26.353	60.619	QUASPEAK
6		0.287	9.695	7.930	17.625	-32.993	50.619	AVERAGE
7		0.423	9.709	19.100	28.809	-28.572	57.380	QUASPEAK
8		0.423	9.709	9.500	19.209	-28.172	47.380	AVERAGE
9		3.966	9.866	20.190	30.055	-25.945	56.000	QUASPEAK
10		3.966	9.866	12.320	22.185	-23.815	46.000	AVERAGE
11		13.279	10.179	29.580	39.759	-20.241	60.000	QUASPEAK
12		13.279	10.179	23.100	33.279	-16.721	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	Time : 2015/11/19 - 10:29
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-5_0818 - Line2	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 4: Transmit_Adapter 3 802.11ac(80M)_5210MHz

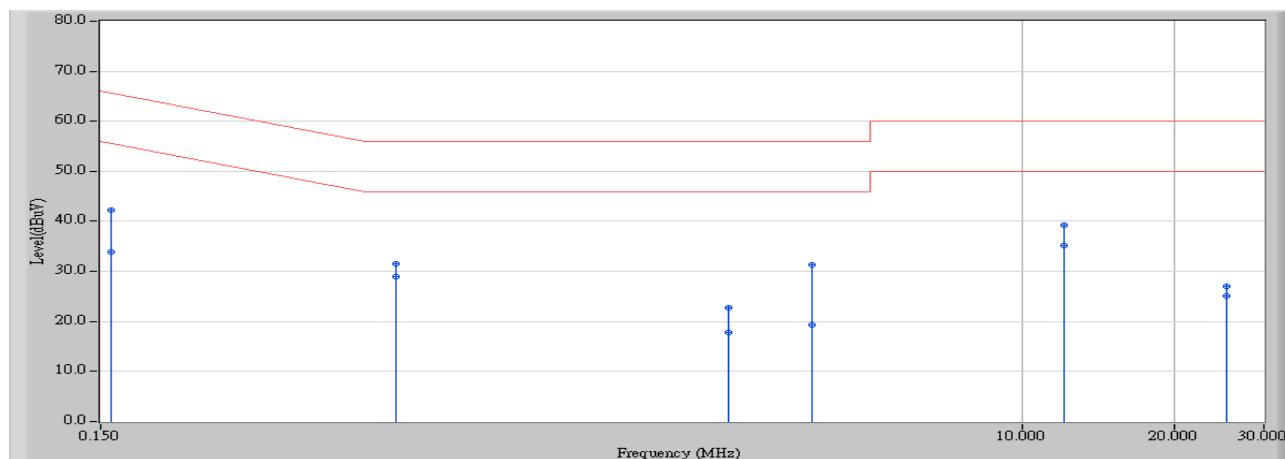


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.154	9.762	41.030	50.792	-14.994	65.786	QUASPEAK
2		0.154	9.762	23.360	33.122	-22.664	55.786	AVERAGE
3		0.197	9.767	26.120	35.886	-27.855	63.741	QUASPEAK
4		0.197	9.767	8.030	17.796	-35.945	53.741	AVERAGE
5		0.283	9.775	25.220	34.995	-25.738	60.733	QUASPEAK
6		0.283	9.775	14.770	24.545	-26.188	50.733	AVERAGE
7		0.423	9.789	23.130	32.919	-24.461	57.380	QUASPEAK
8		0.423	9.789	15.860	25.649	-21.731	47.380	AVERAGE
9		3.982	9.946	19.550	29.496	-26.504	56.000	QUASPEAK
10		3.982	9.946	11.630	21.576	-24.424	46.000	AVERAGE
11		13.064	10.155	28.610	38.765	-21.235	60.000	QUASPEAK
12		13.064	10.155	22.050	32.205	-17.795	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	Time : 2015/11/17 - 15:01
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-5_0818 - Line1	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 5: Transmit_Adapter 4 802.11ac(80M)_5210MHz

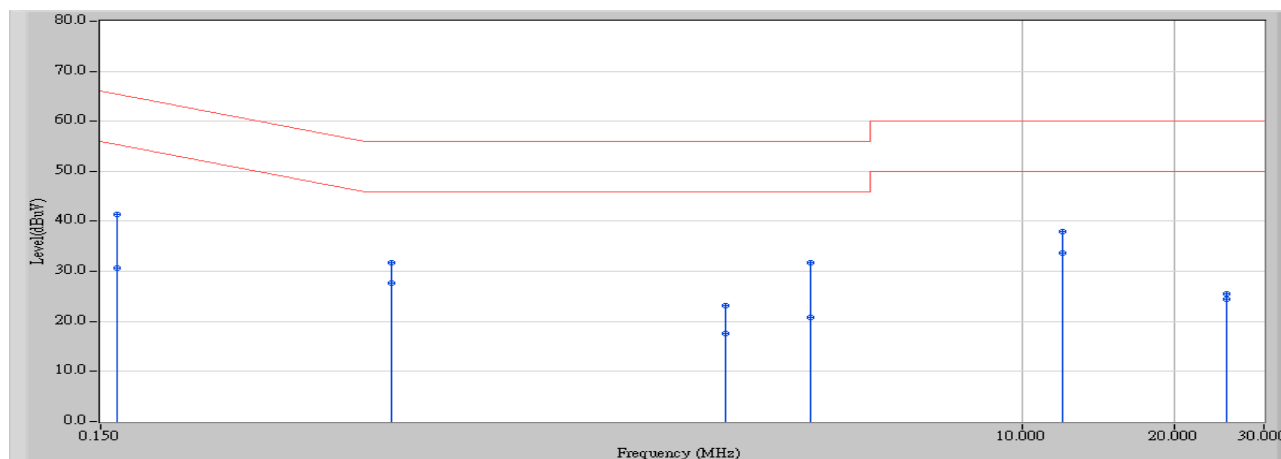


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.158	9.690	32.660	42.350	-23.228	65.578	QUASPEAK
2		0.158	9.690	24.110	33.800	-21.778	55.578	AVERAGE
3		0.576	9.720	21.820	31.540	-24.460	56.000	QUASPEAK
4		0.576	9.720	19.220	28.940	-17.060	46.000	AVERAGE
5		2.627	9.807	12.960	22.767	-33.233	56.000	QUASPEAK
6		2.627	9.807	8.060	17.867	-28.133	46.000	AVERAGE
7		3.830	9.859	21.520	31.379	-24.621	56.000	QUASPEAK
8		3.830	9.859	9.420	19.279	-26.721	46.000	AVERAGE
9		12.041	10.153	29.200	39.353	-20.647	60.000	QUASPEAK
10	*	12.041	10.153	24.990	35.143	-14.857	50.000	AVERAGE
11		25.232	10.470	16.480	26.949	-33.051	60.000	QUASPEAK
12		25.232	10.470	14.720	25.189	-24.811	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	Time : 2015/11/17 - 15:04
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-5_0818 - Line2	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 5: Transmit_Adapter 4 802.11ac(80M)_5210MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	9.762	31.610	41.372	-24.003	65.375	QUASPEAK
2		0.162	9.762	20.840	30.602	-24.773	55.375	AVERAGE
3		0.564	9.803	21.870	31.673	-24.327	56.000	QUASPEAK
4		0.564	9.803	17.880	27.683	-18.317	46.000	AVERAGE
5		2.591	9.893	13.350	23.243	-32.757	56.000	QUASPEAK
6		2.591	9.893	7.640	17.533	-28.467	46.000	AVERAGE
7		3.810	9.939	21.730	31.669	-24.331	56.000	QUASPEAK
8		3.810	9.939	10.920	20.859	-25.141	46.000	AVERAGE
9		12.029	10.150	27.830	37.980	-22.020	60.000	QUASPEAK
10	*	12.029	10.150	23.540	33.690	-16.310	50.000	AVERAGE
11		25.232	10.256	15.250	25.506	-34.494	60.000	QUASPEAK
12		25.232	10.256	14.100	24.356	-25.644	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% & 26dB Bandwidth

3.1. Test Equipment

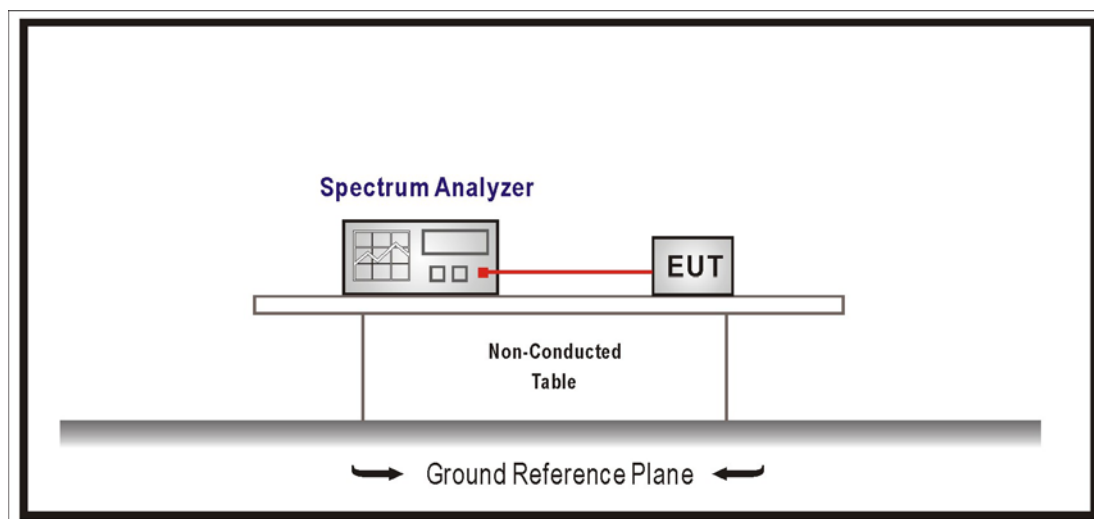
The following test equipments are used during the radiated emission tests:

99% & 26dB Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2016/07/13

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

3.2. Test Setup



3.3. Limits

99% & 26dB Bandwidth : No Required

3.4. Test Procedure

99% & 26dB Bandwidth :

The EUT was tested according to U-NII test procedure of 789033 D02 General UNII Test Procedures New Rules v01 .

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

3.5. Uncertainty

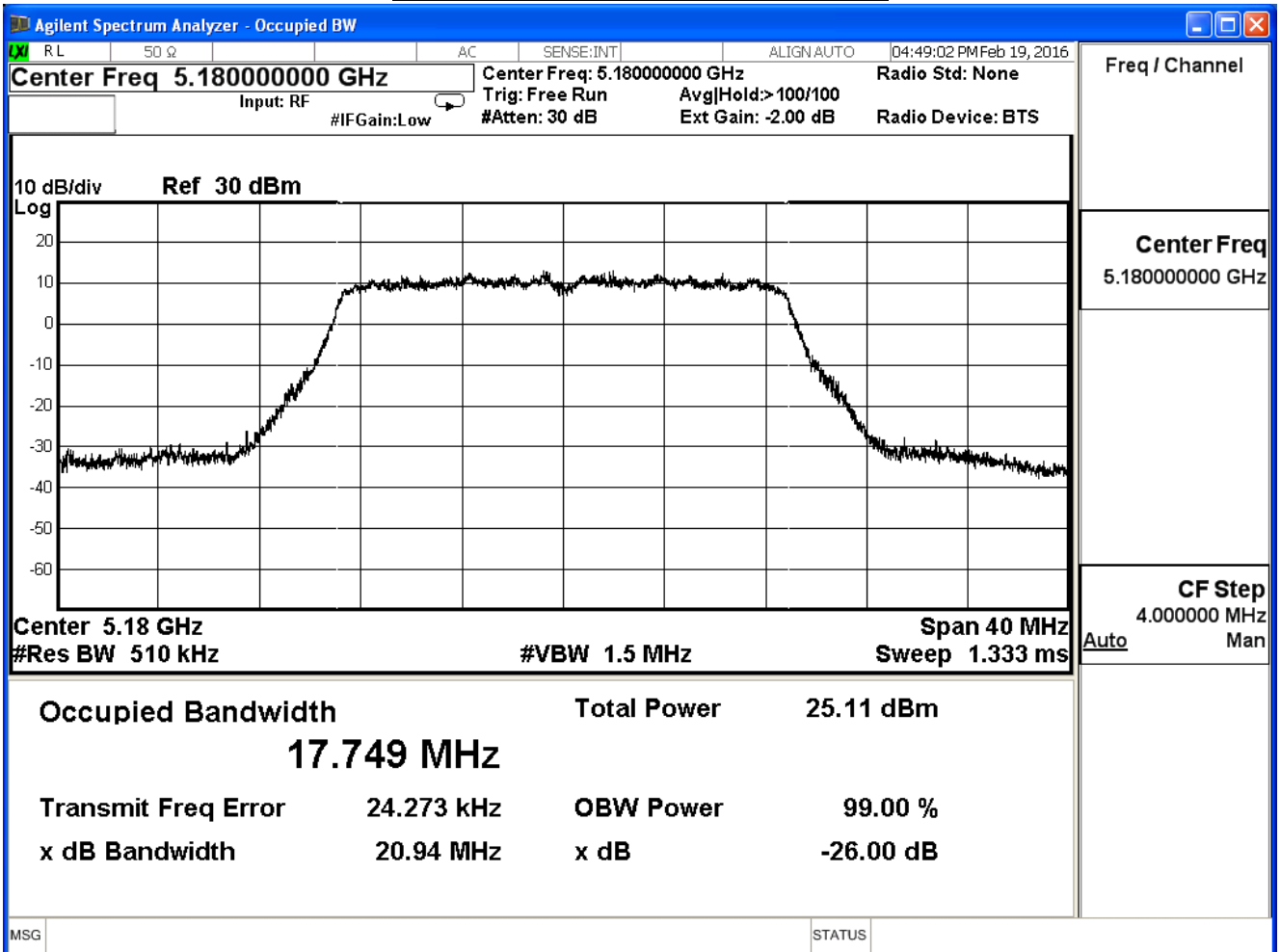
The measurement uncertainty is defined as $\pm 150\text{Hz}$

3.6. Test Result

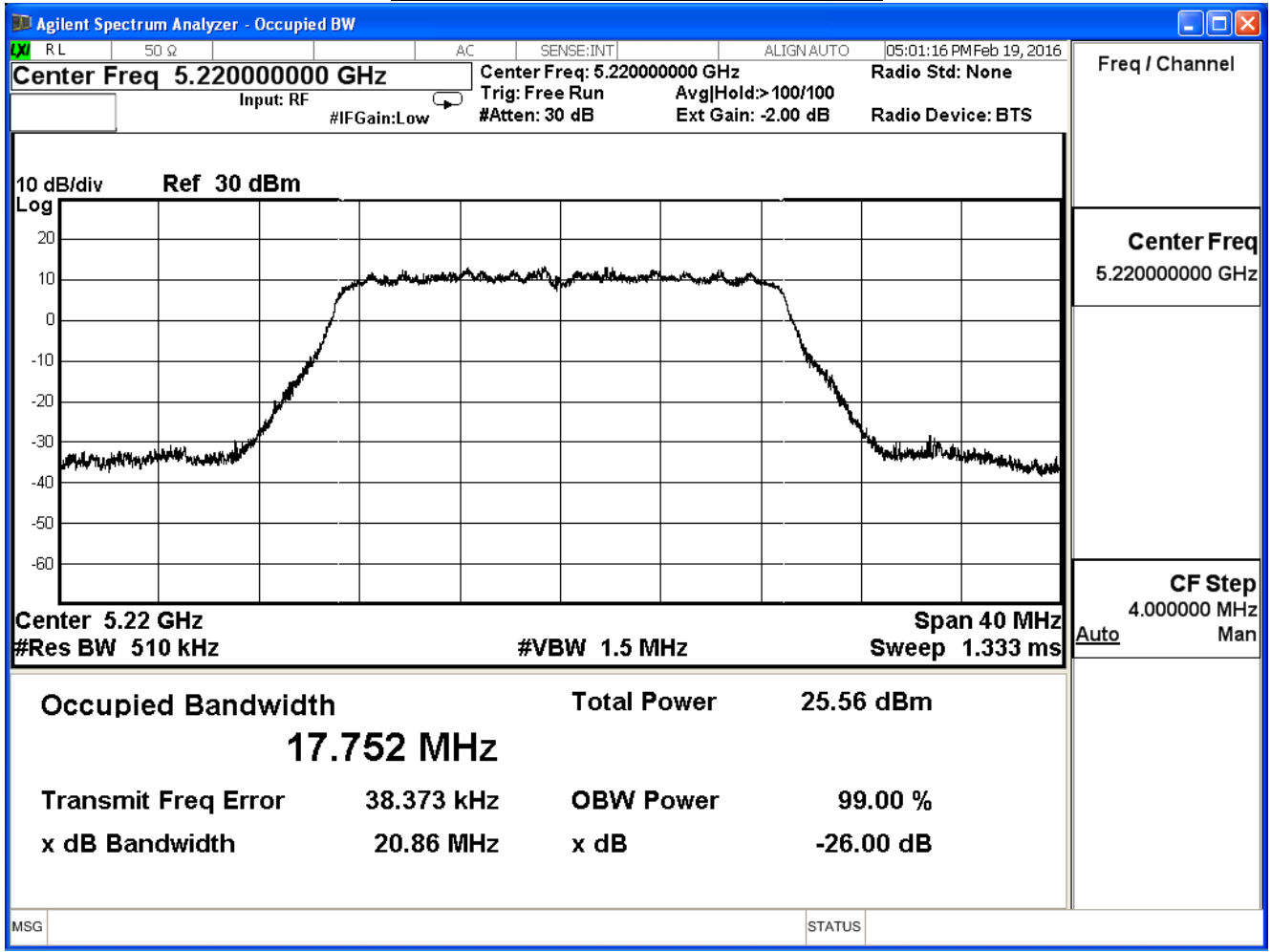
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/19	Test Site	SR7

IEEE 802.11n_20M (ANT 0)					
Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
36	5180	20.94	17.75	--	Pass
44	5220	20.86	17.75	--	Pass
48	5240	20.96	17.75	--	Pass

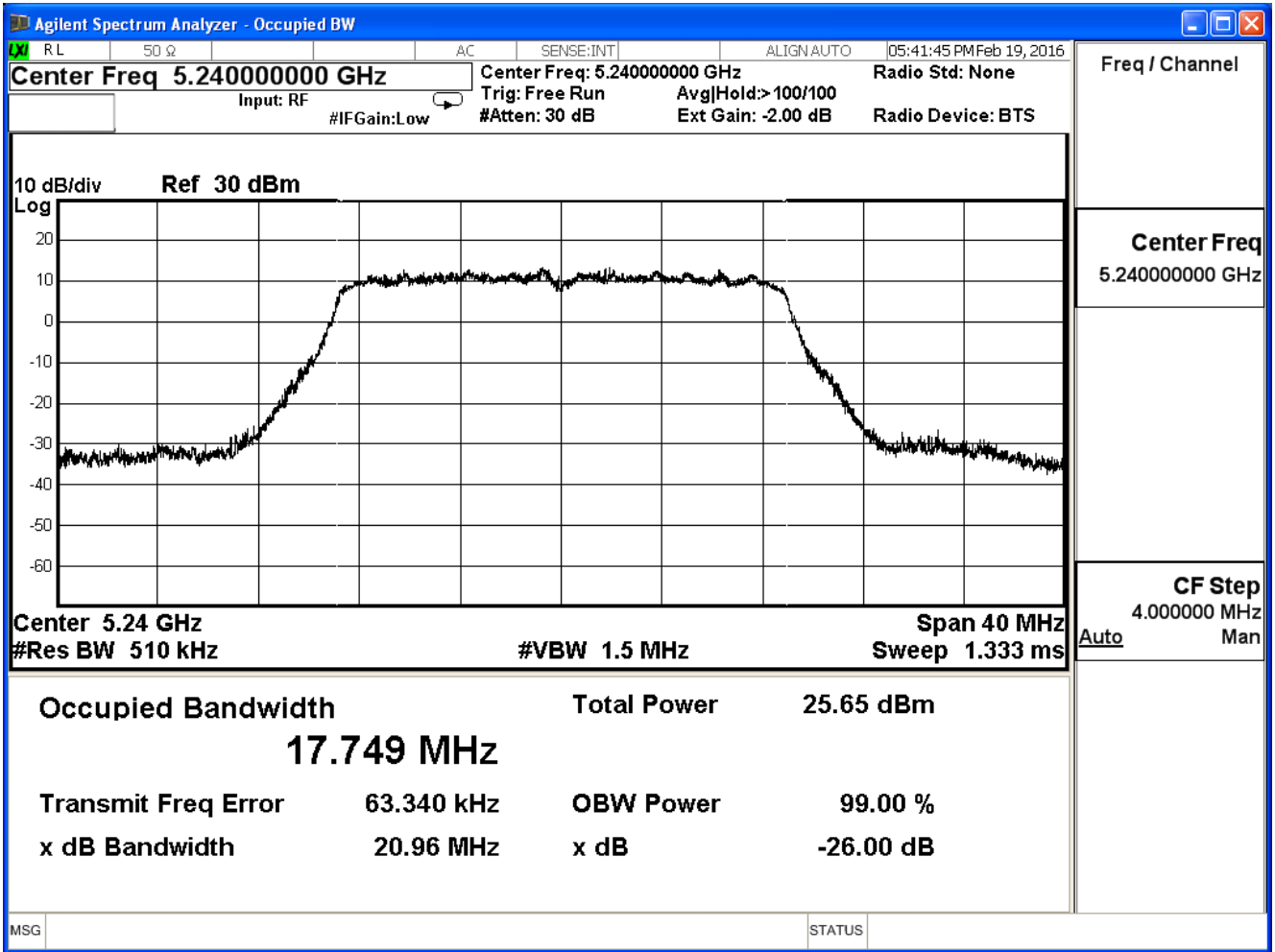
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

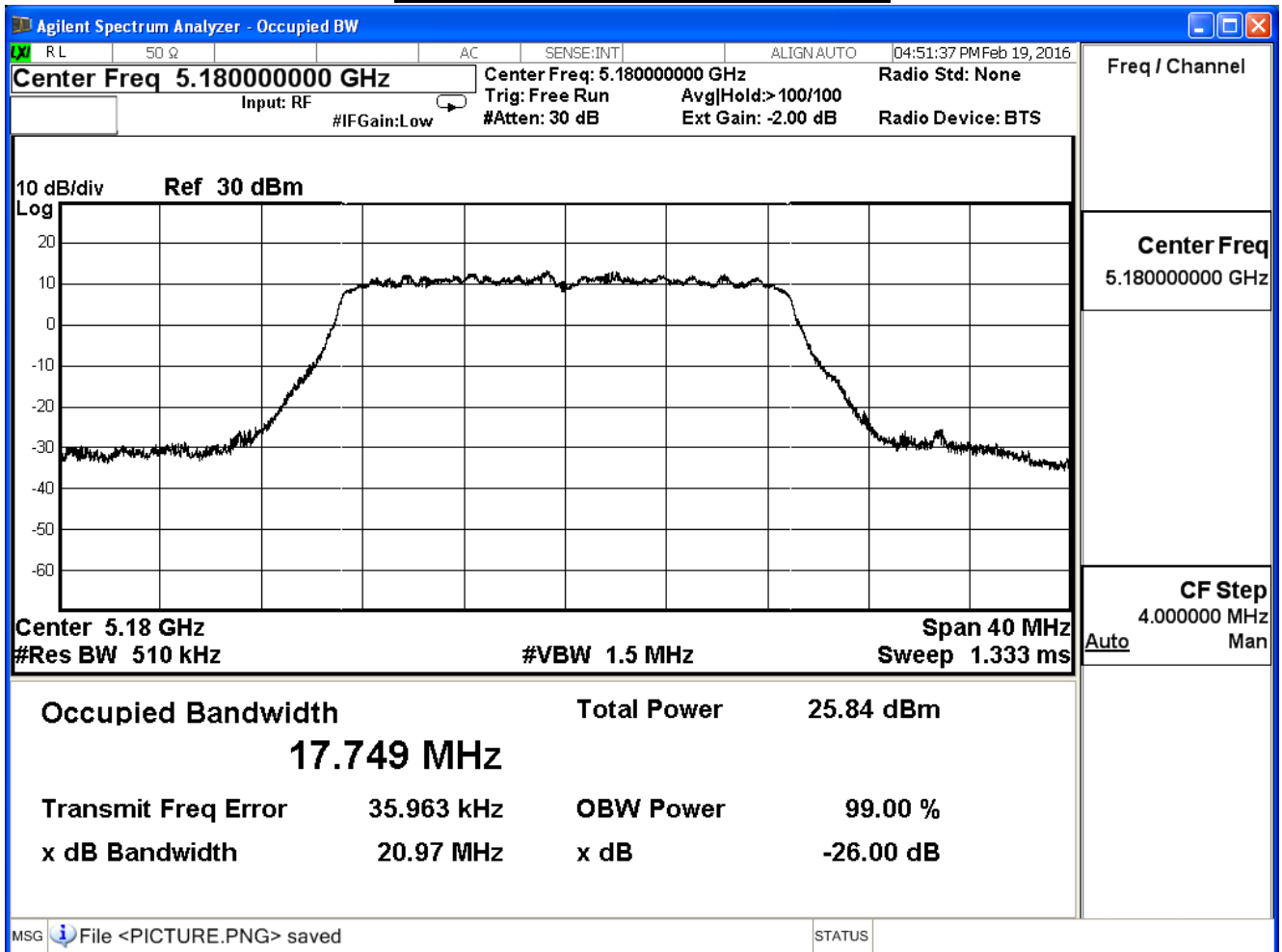


Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit Beamforming Mode Adapter 1		
Date of Test	2016/02/19	Test Site	SR7

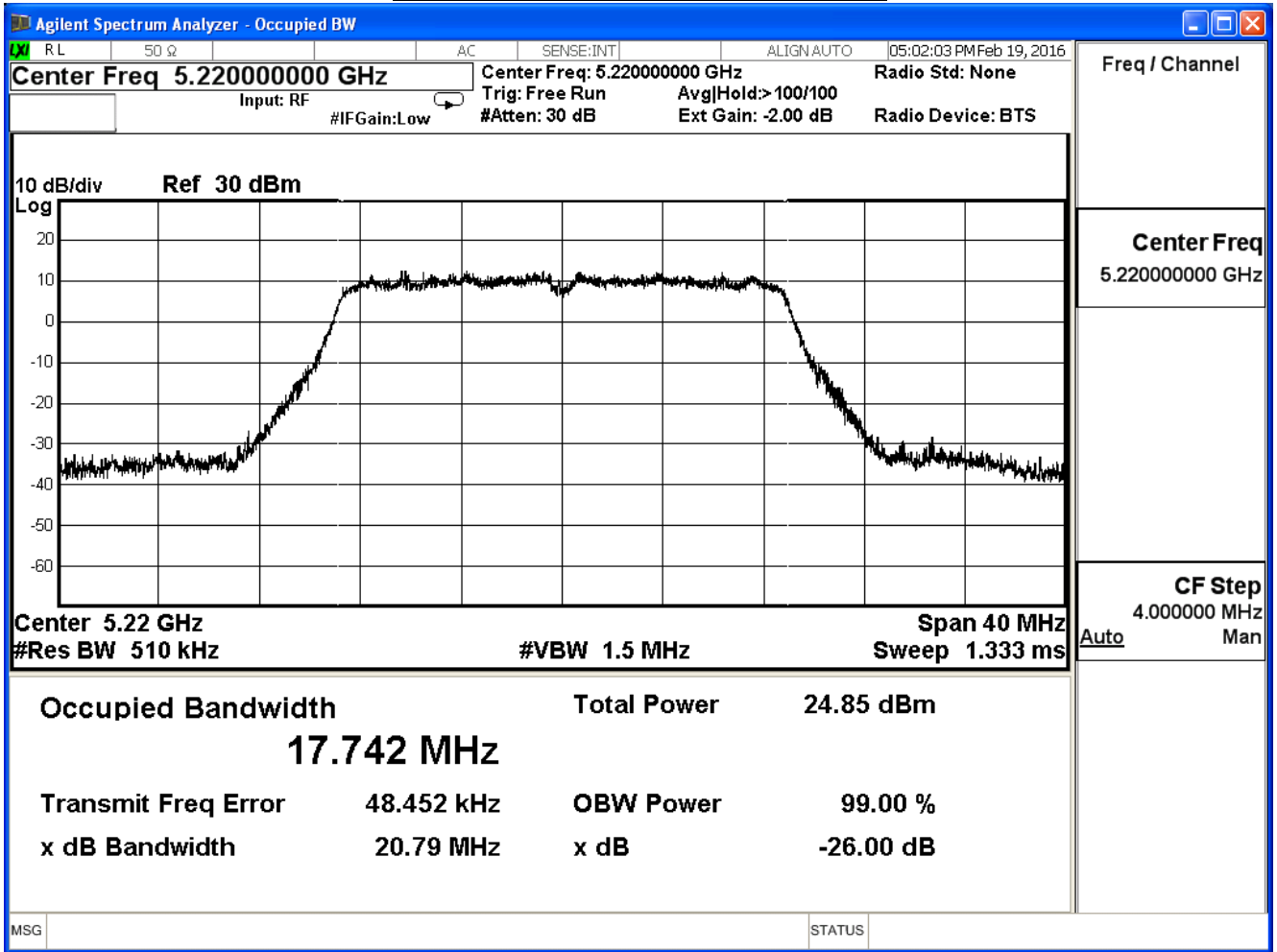
IEEE 802.11n_20M (ANT 1)

Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
36	5180	20.97	17.75	--	Pass
44	5220	20.79	17.74	--	Pass
48	5240	20.91	17.76	--	Pass

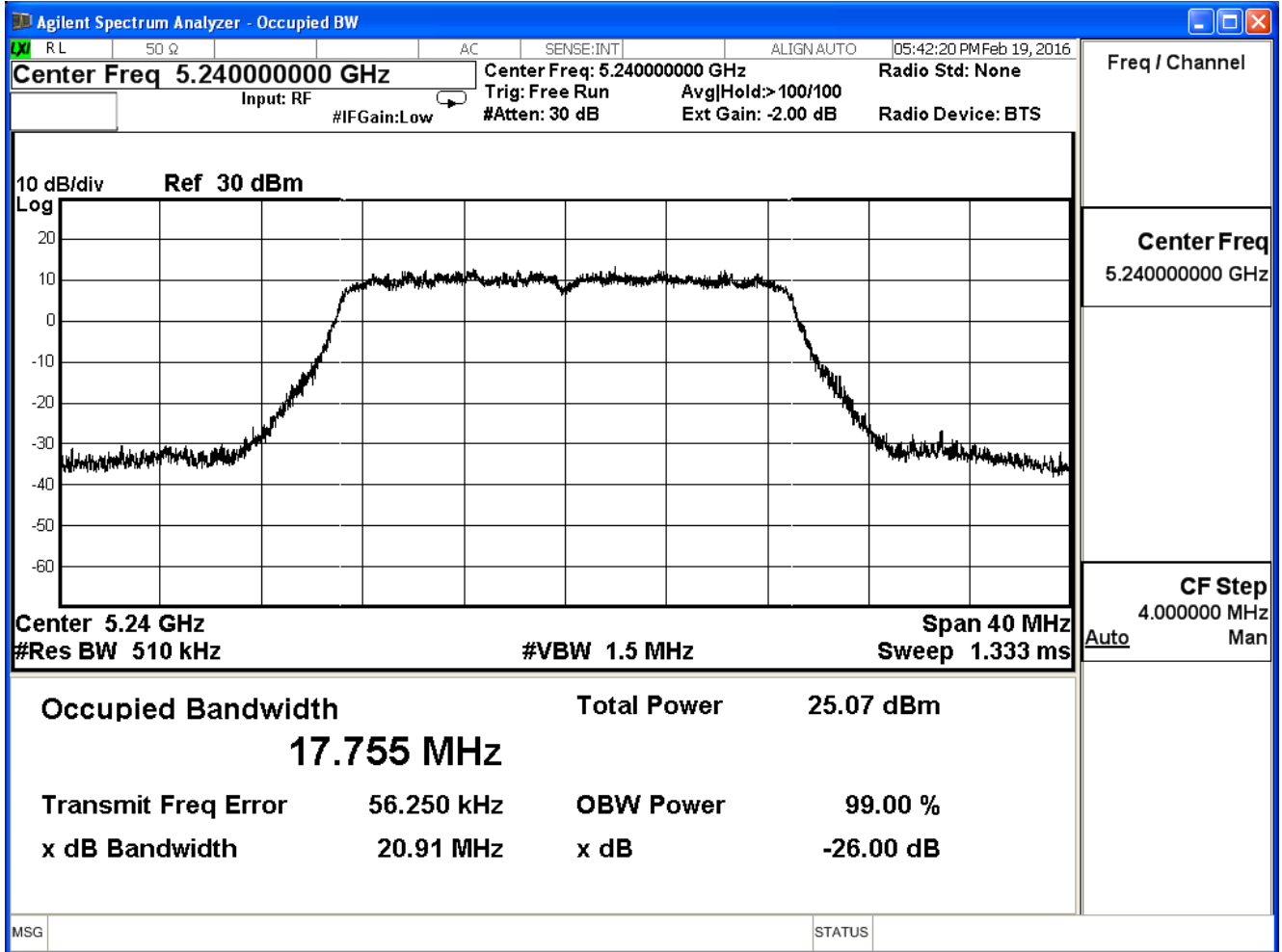
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



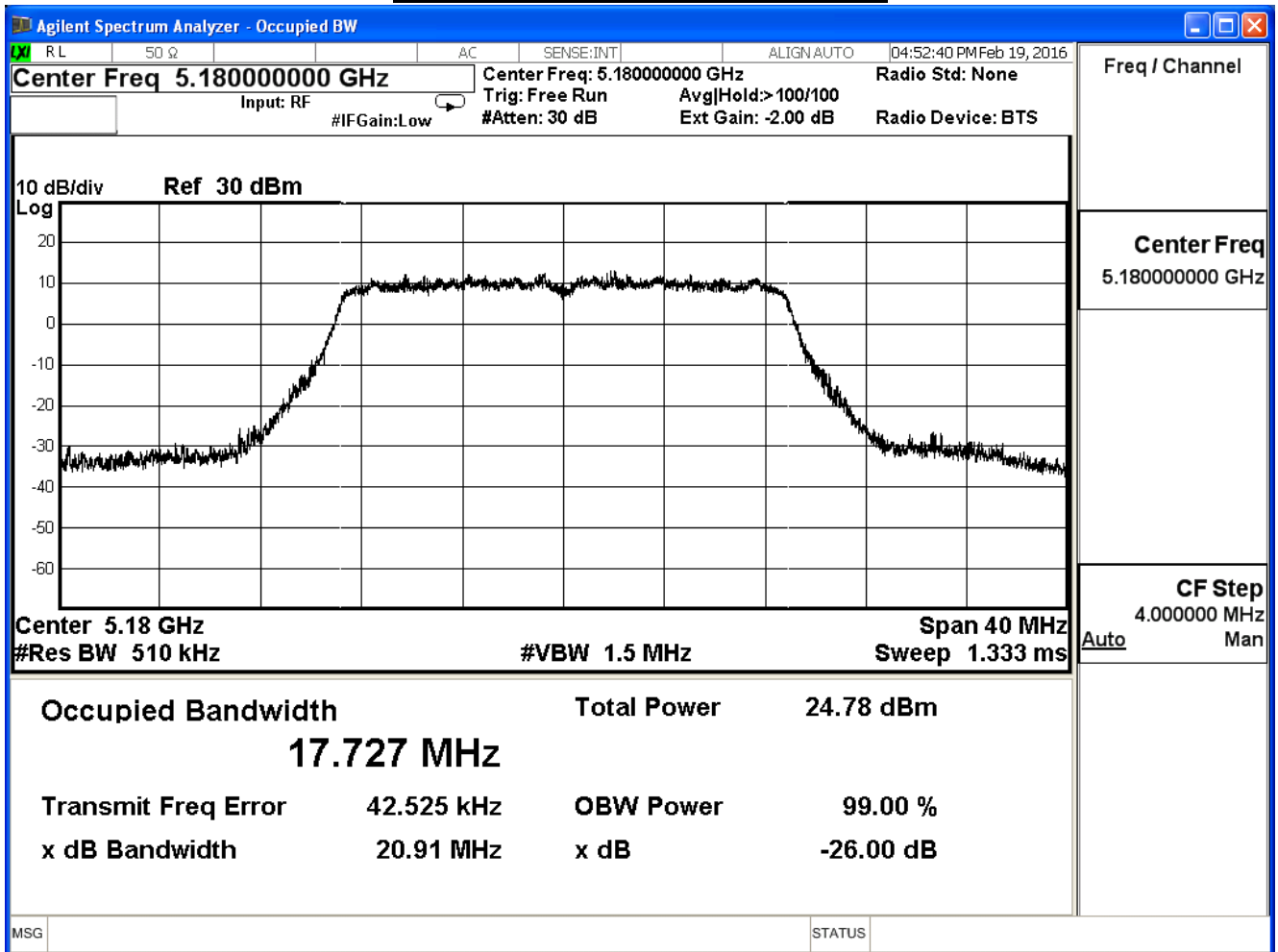
99% & 26dB Bandwidth – Channel 48



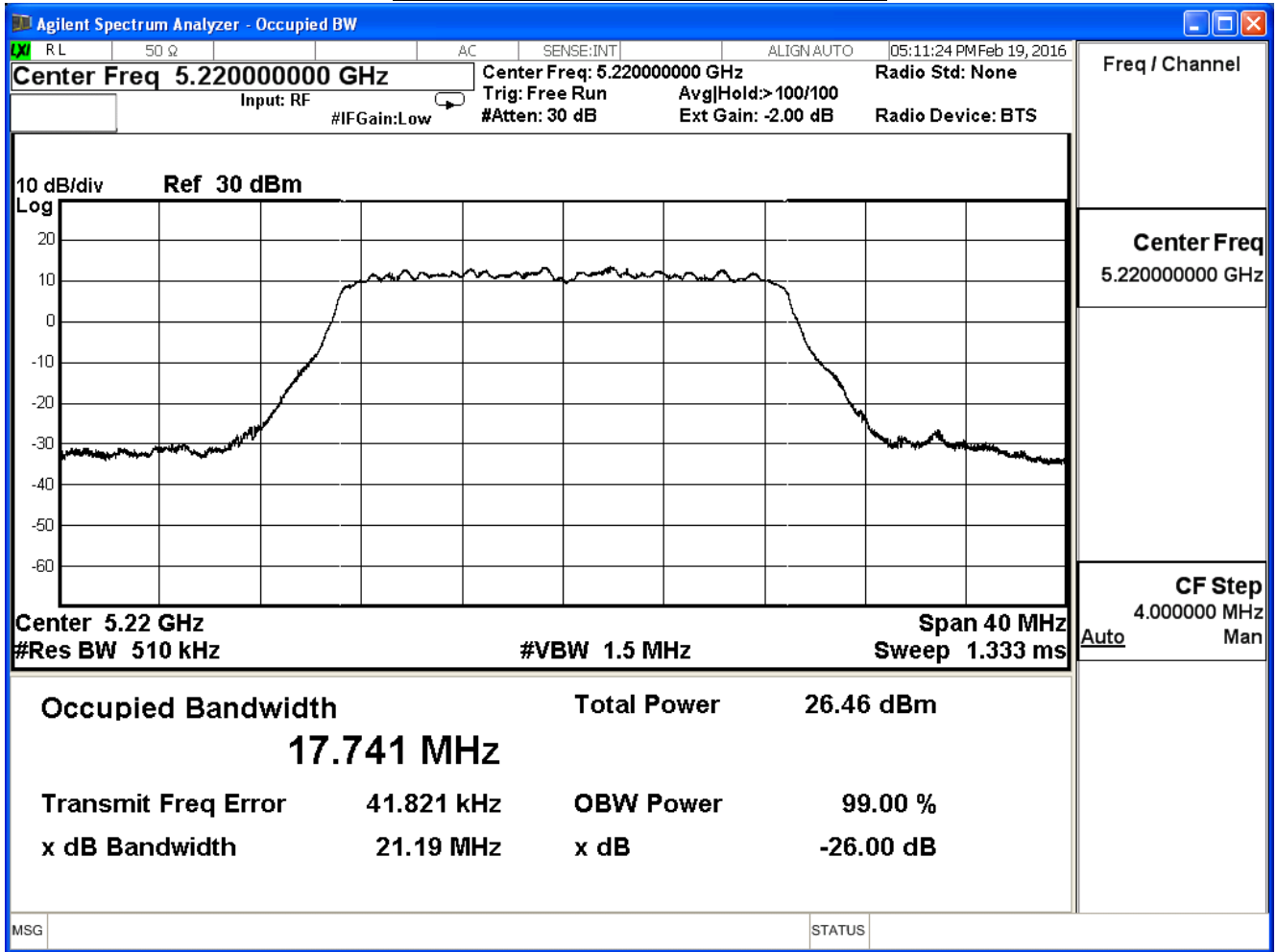
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit Beamforming Mode Adapter 1		
Date of Test	2016/02/19	Test Site	SR7

IEEE 802.11n_20M (ANT 2)					
Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
36	5180	20.91	17.73	--	Pass
44	5220	21.19	17.74	--	Pass
48	5240	20.75	17.72	--	Pass

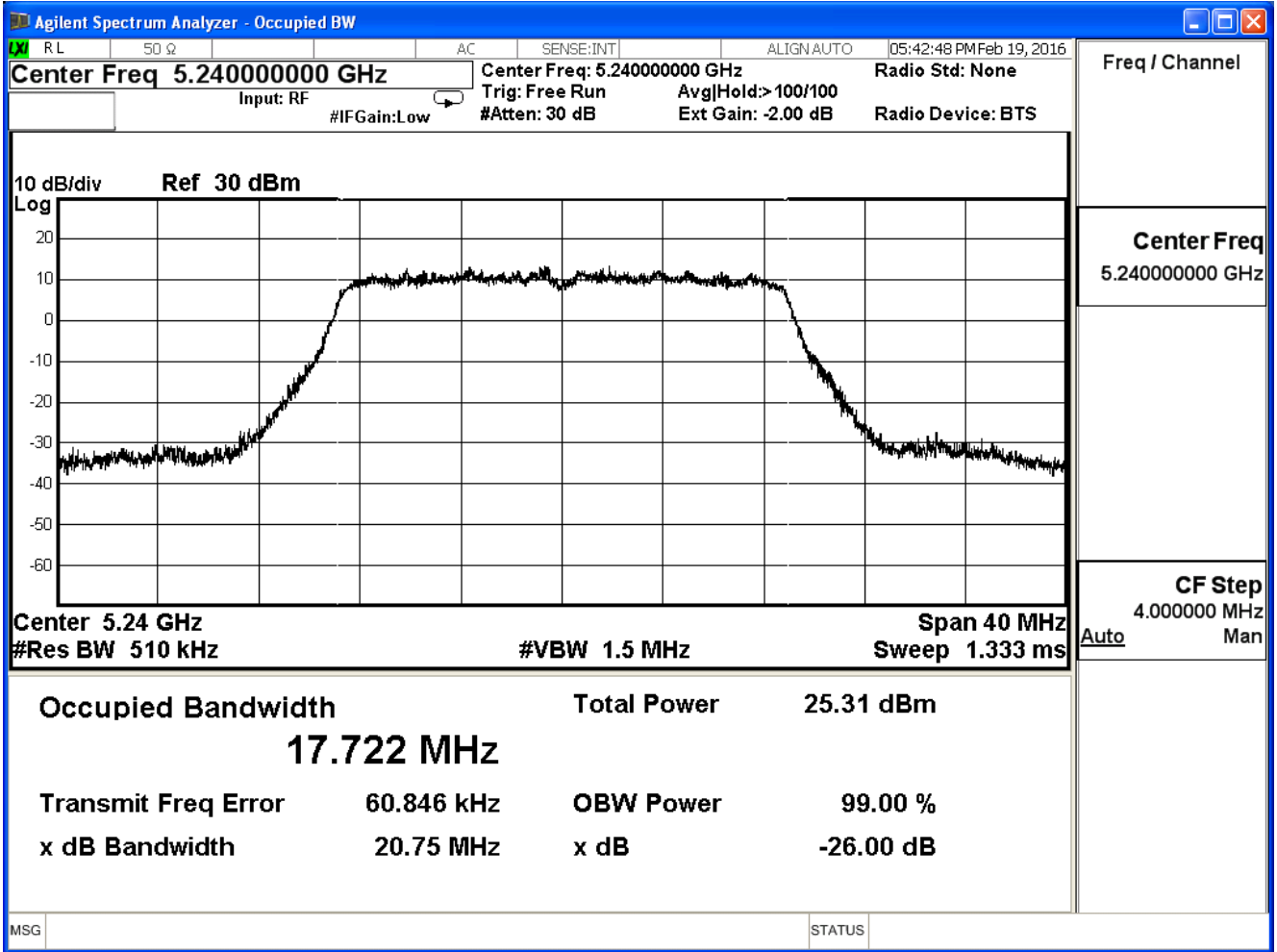
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

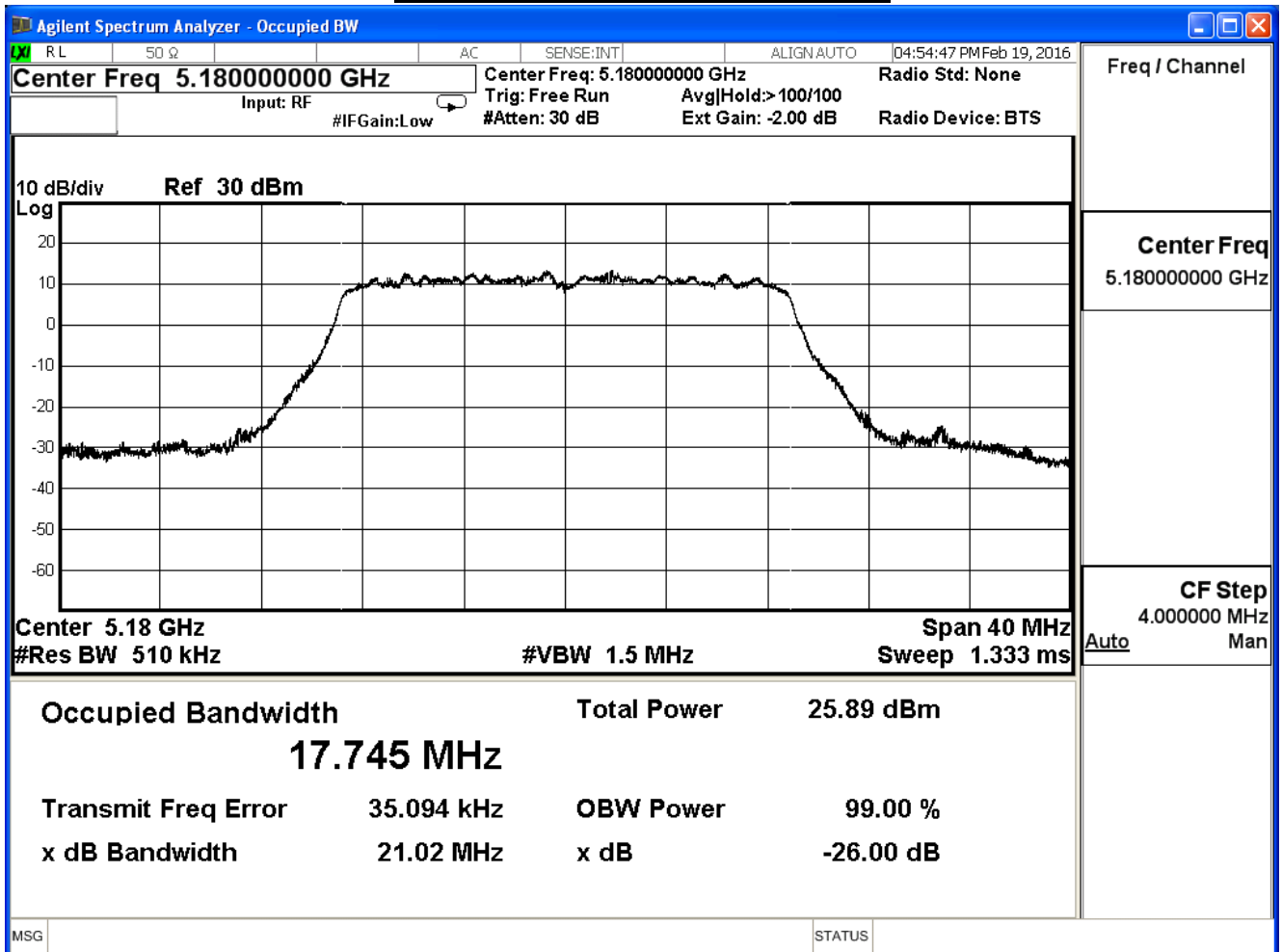


Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit Beamforming Mode Adapter 1		
Date of Test	2016/02/19	Test Site	SR7

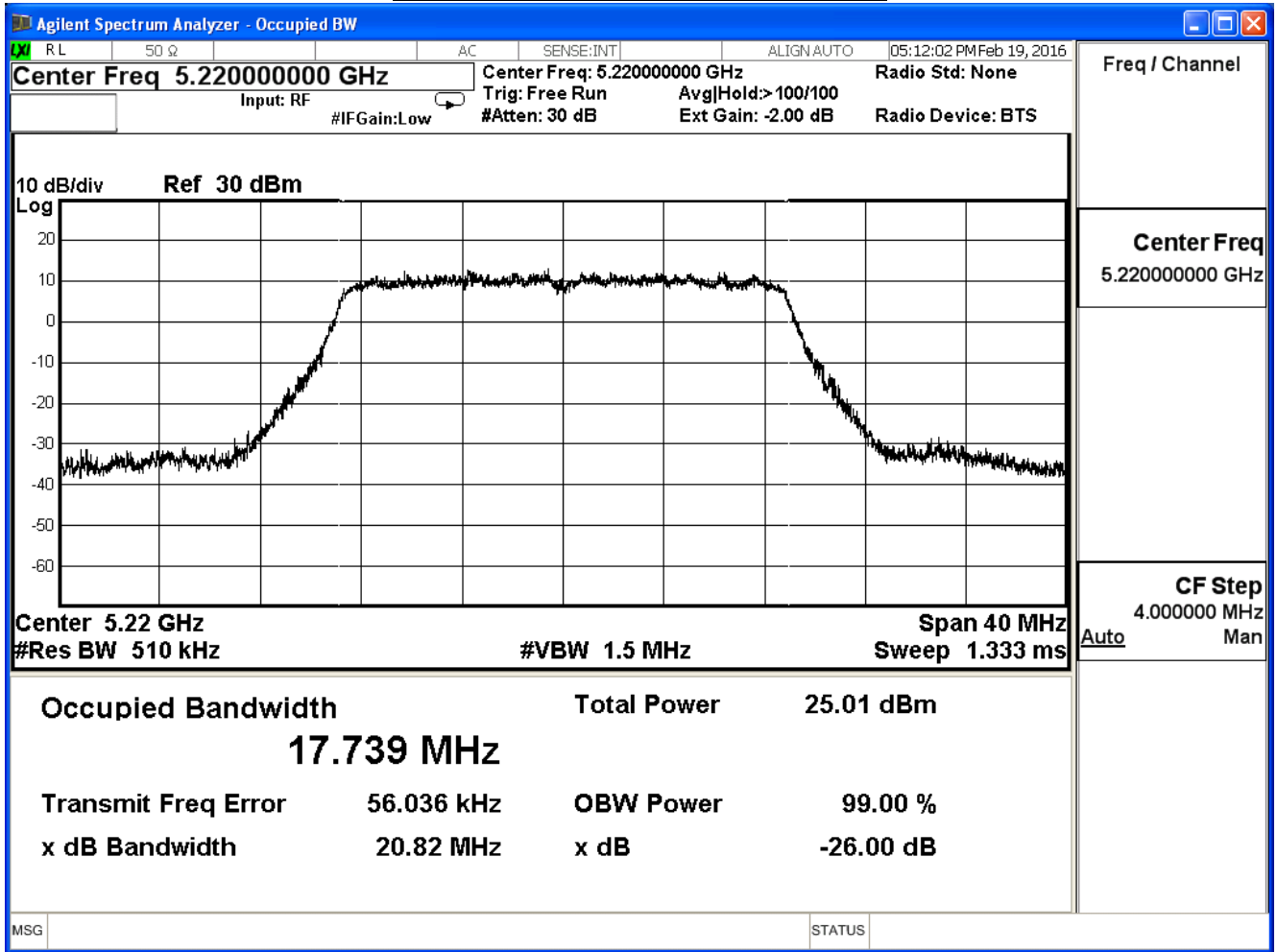
IEEE 802.11n_20M (ANT 3)

Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
36	5180	21.02	17.75	--	Pass
44	5220	20.82	17.74	--	Pass
48	5240	20.64	17.73	--	Pass

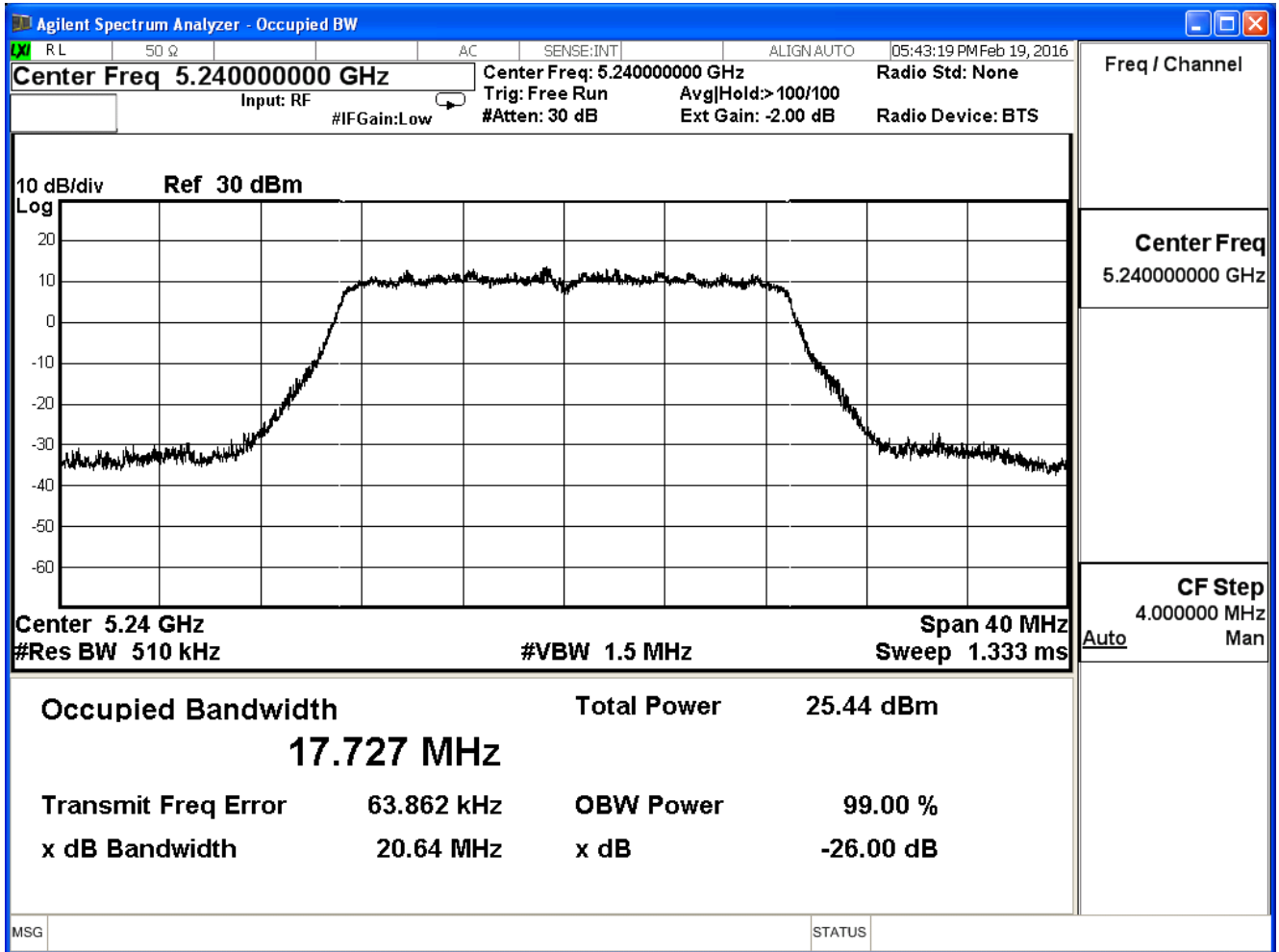
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

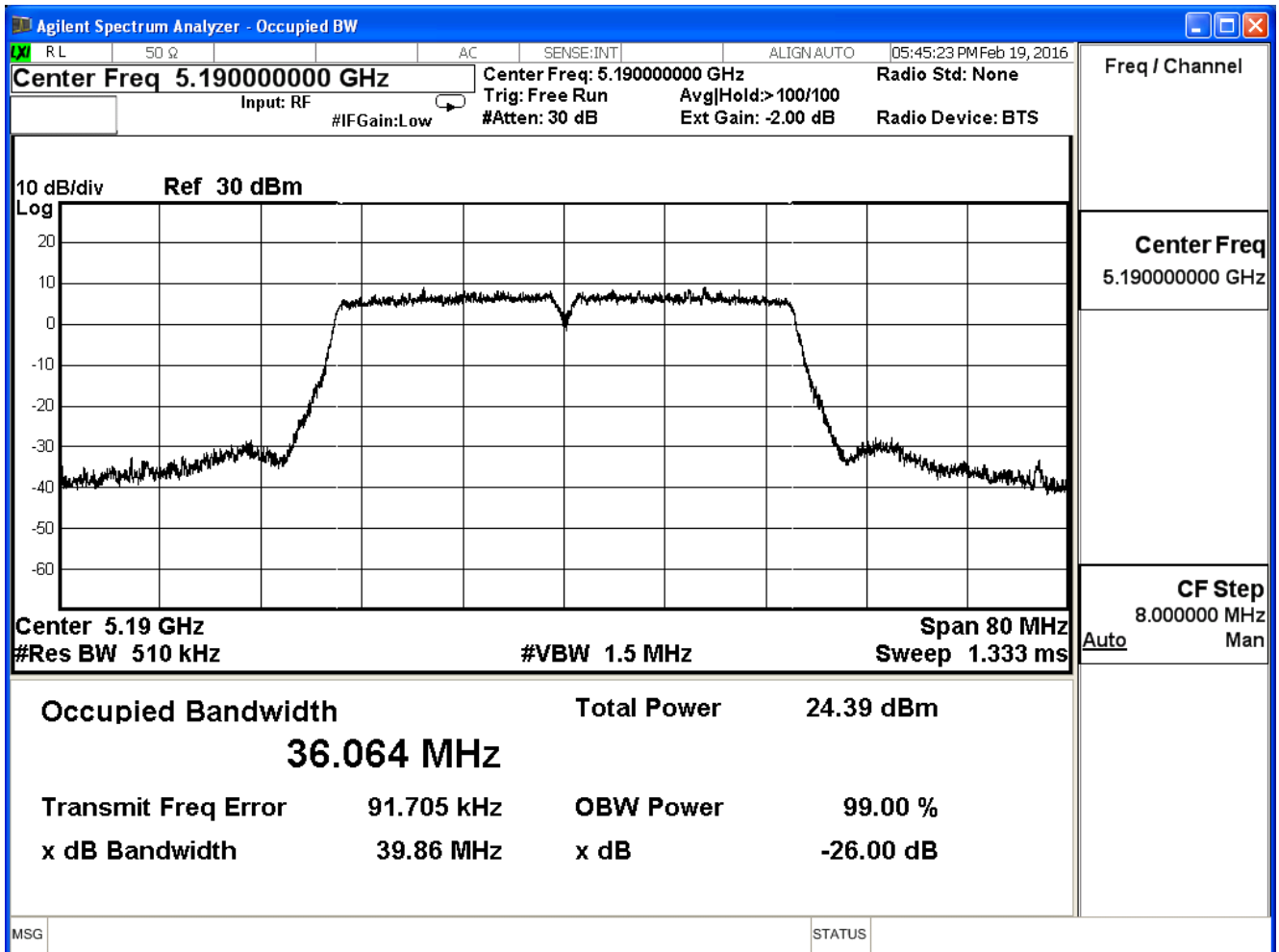


Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit Beamforming Mode Adapter 1		
Date of Test	2016/02/21	Test Site	SR7

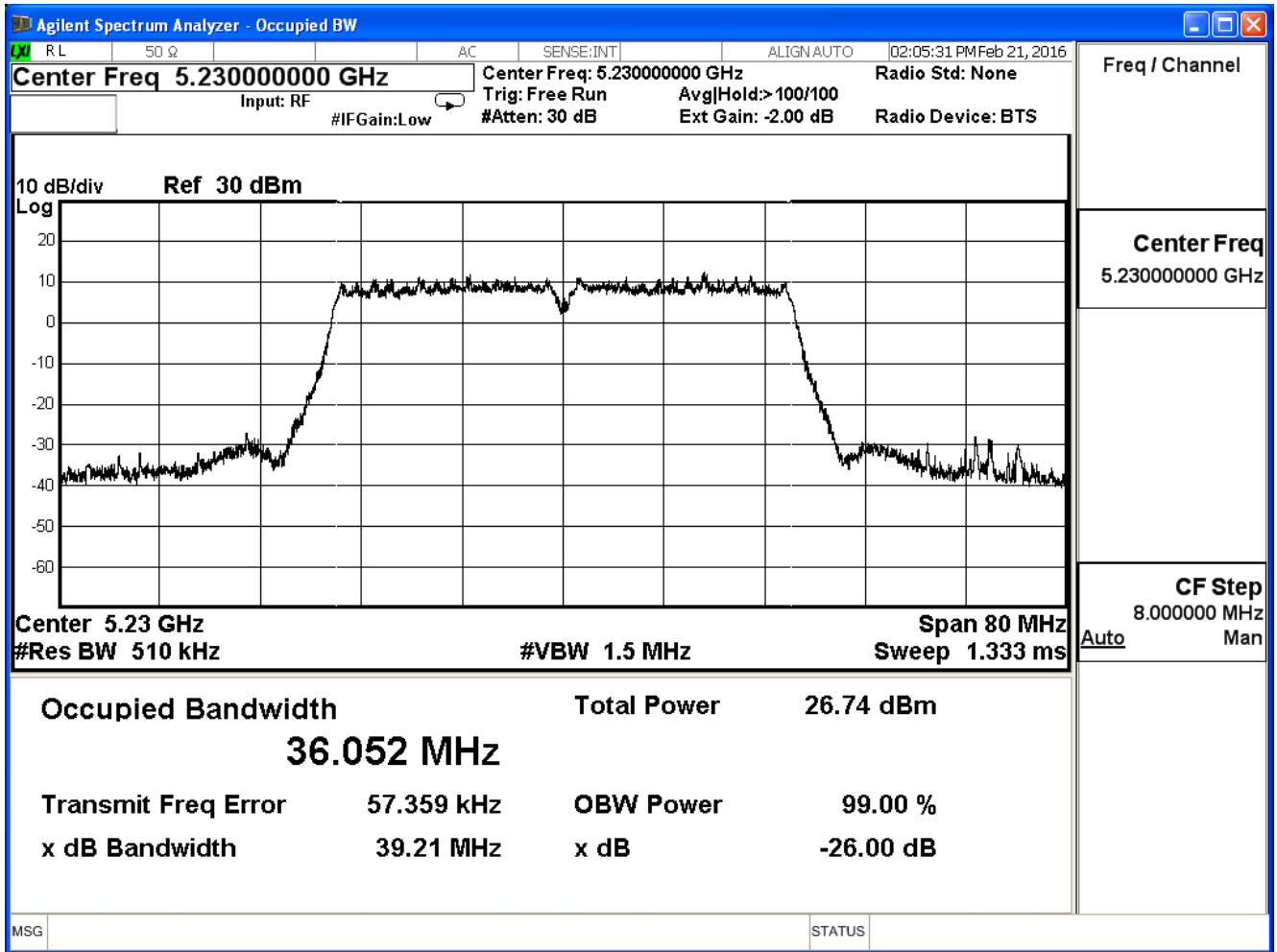
802.11n_40M(ANT 0)

Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
38	5190	39.86	36.06	--	Pass
46	5230	39.21	36.05	--	Pass

99% & 26dB Bandwidth – Channel 38



99% & 26dB Bandwidth – Channel 46

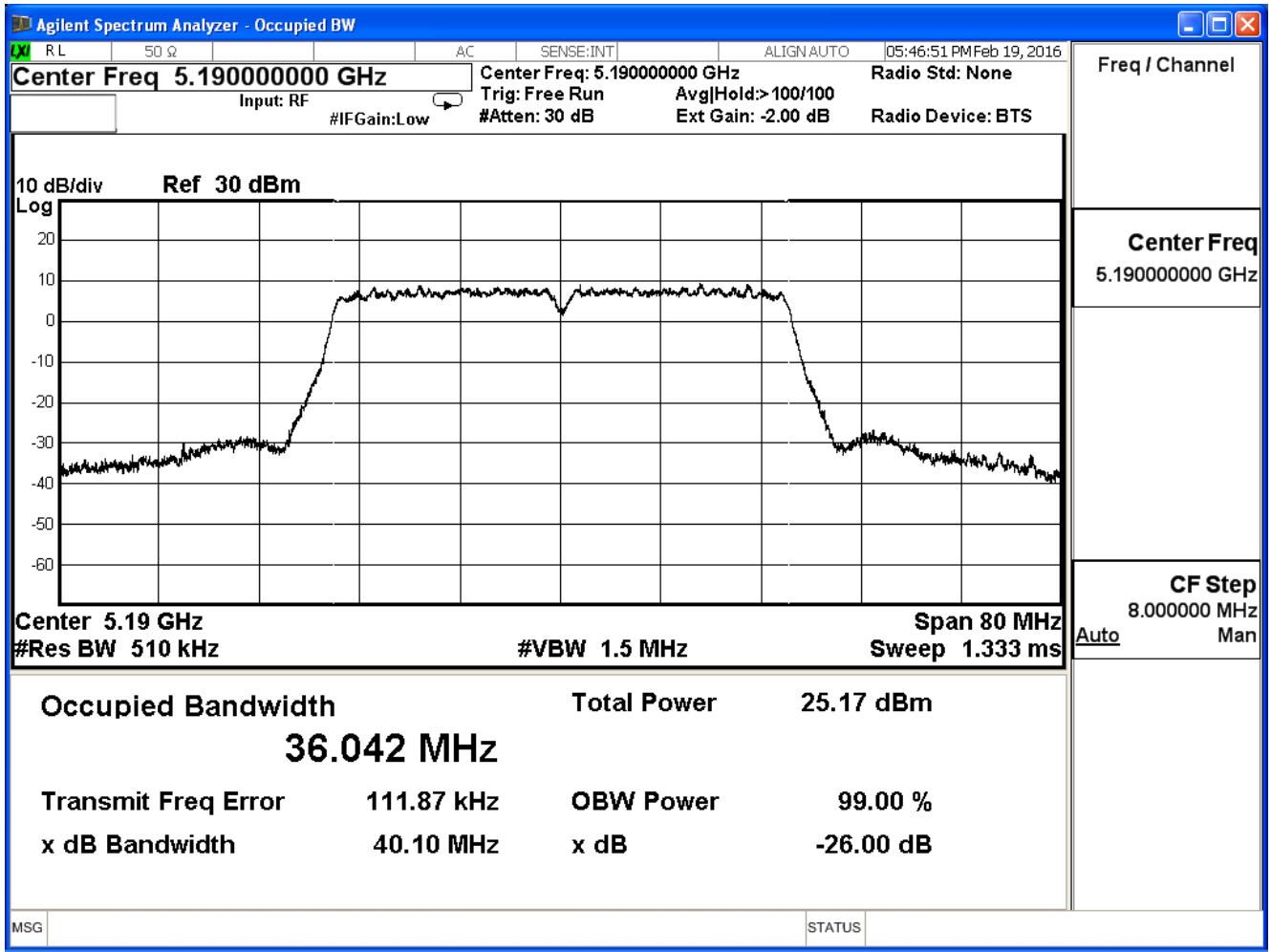


Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit Beamforming Mode Adapter 1		
Date of Test	2016/02/21	Test Site	SR7

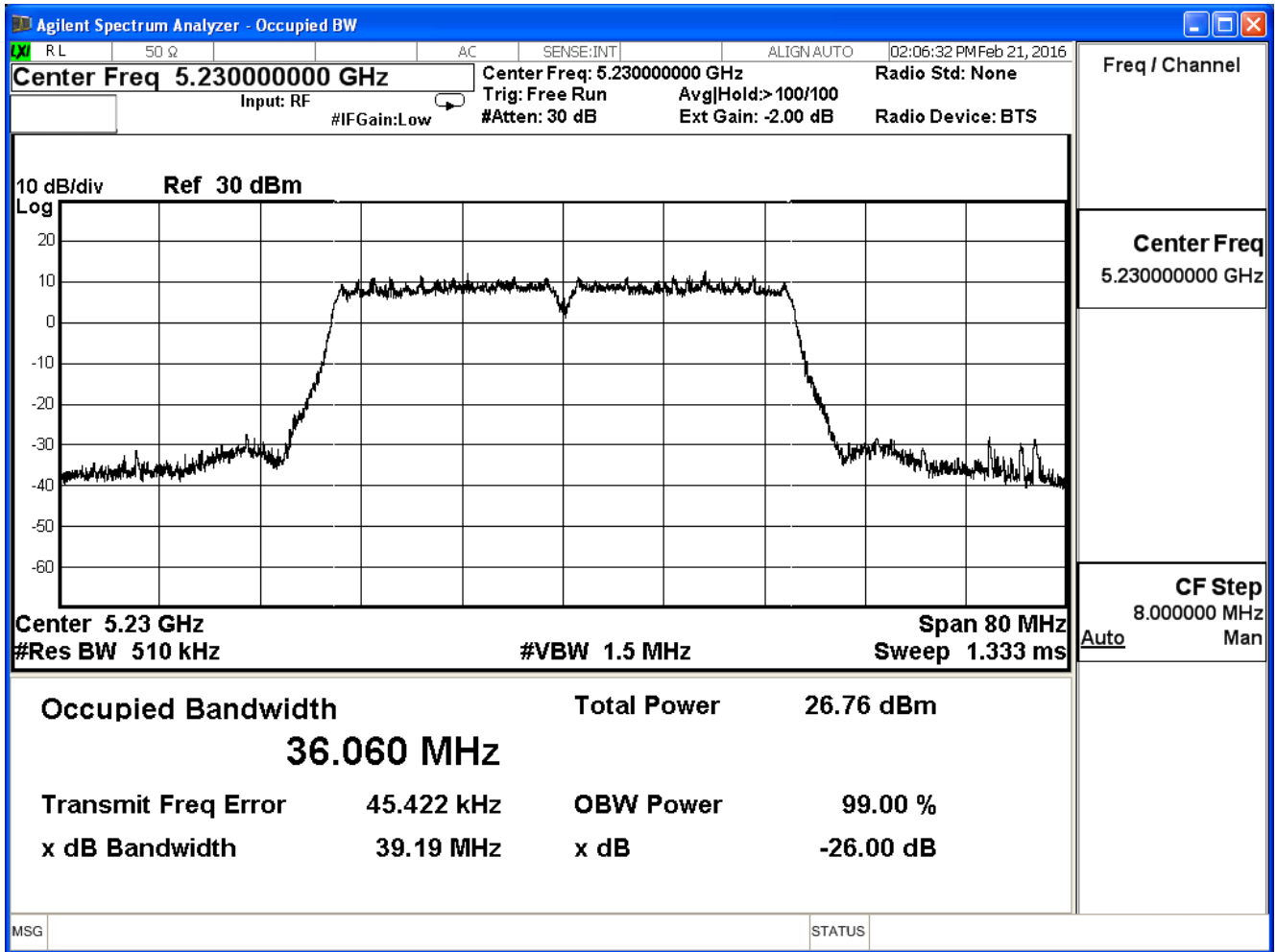
802.11n_40M(ANT 1)

Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
38	5190	40.10	36.04	--	Pass
46	5230	39.19	36.06	--	Pass

99% & 26dB Bandwidth – Channel 38



99% & 26dB Bandwidth – Channel 46

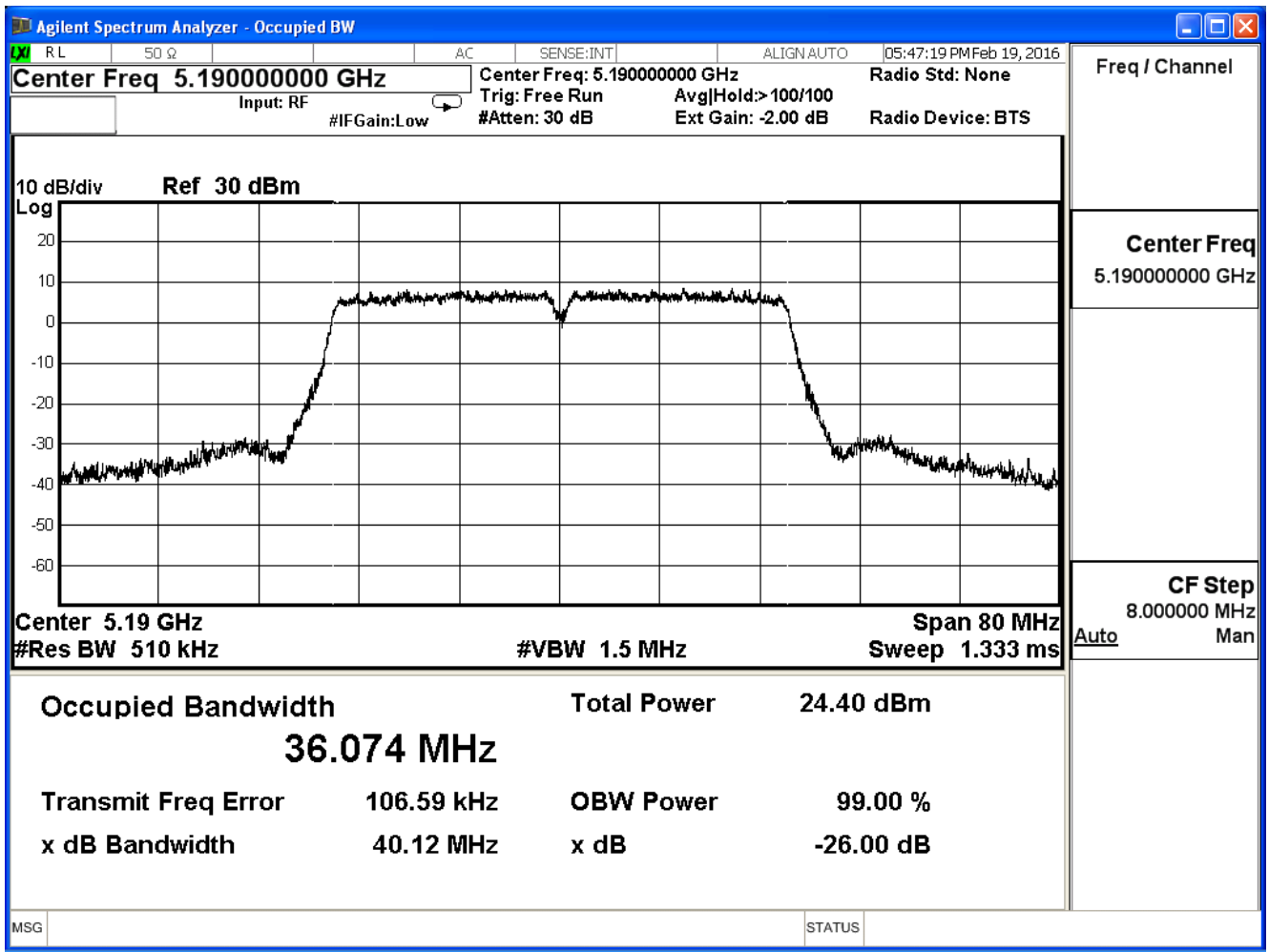


Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/21	Test Site	SR7

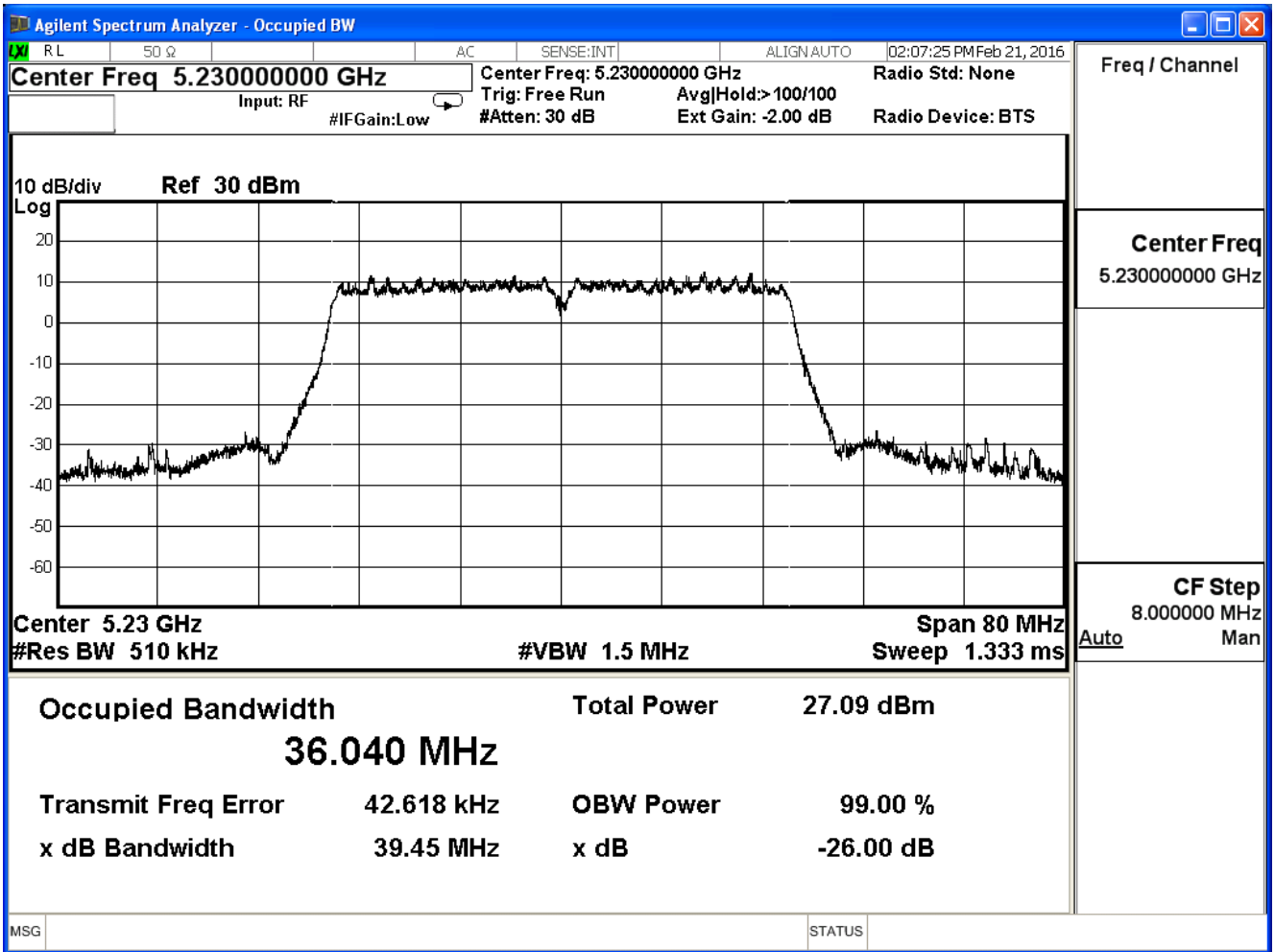
802.11n_40M(ANT 2)

Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
38	5190	40.12	36.07	--	Pass
46	5230	39.45	36.04	--	Pass

99% & 26dB Bandwidth – Channel 38



99% & 26dB Bandwidth – Channel 46

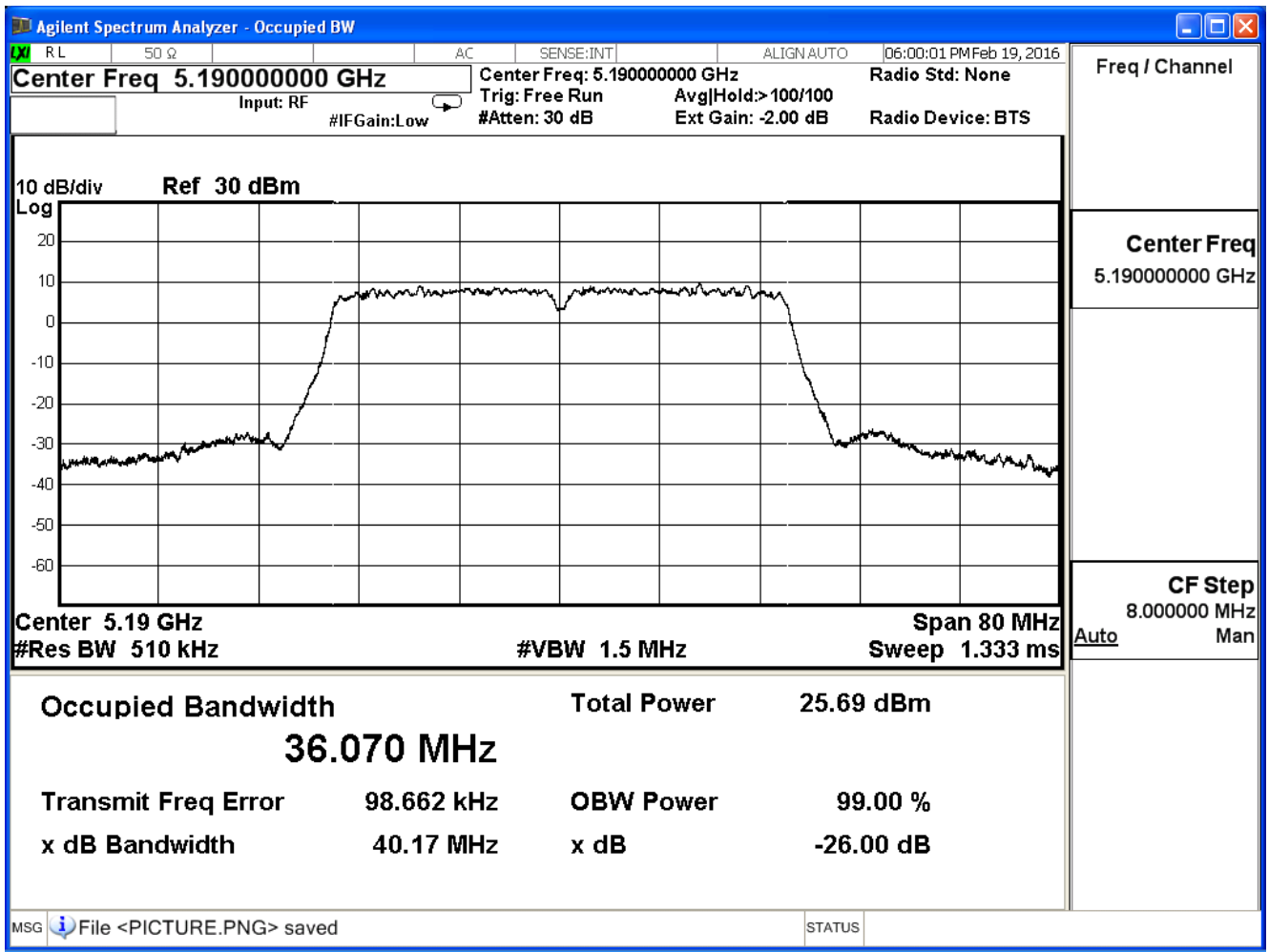


Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/21	Test Site	SR7

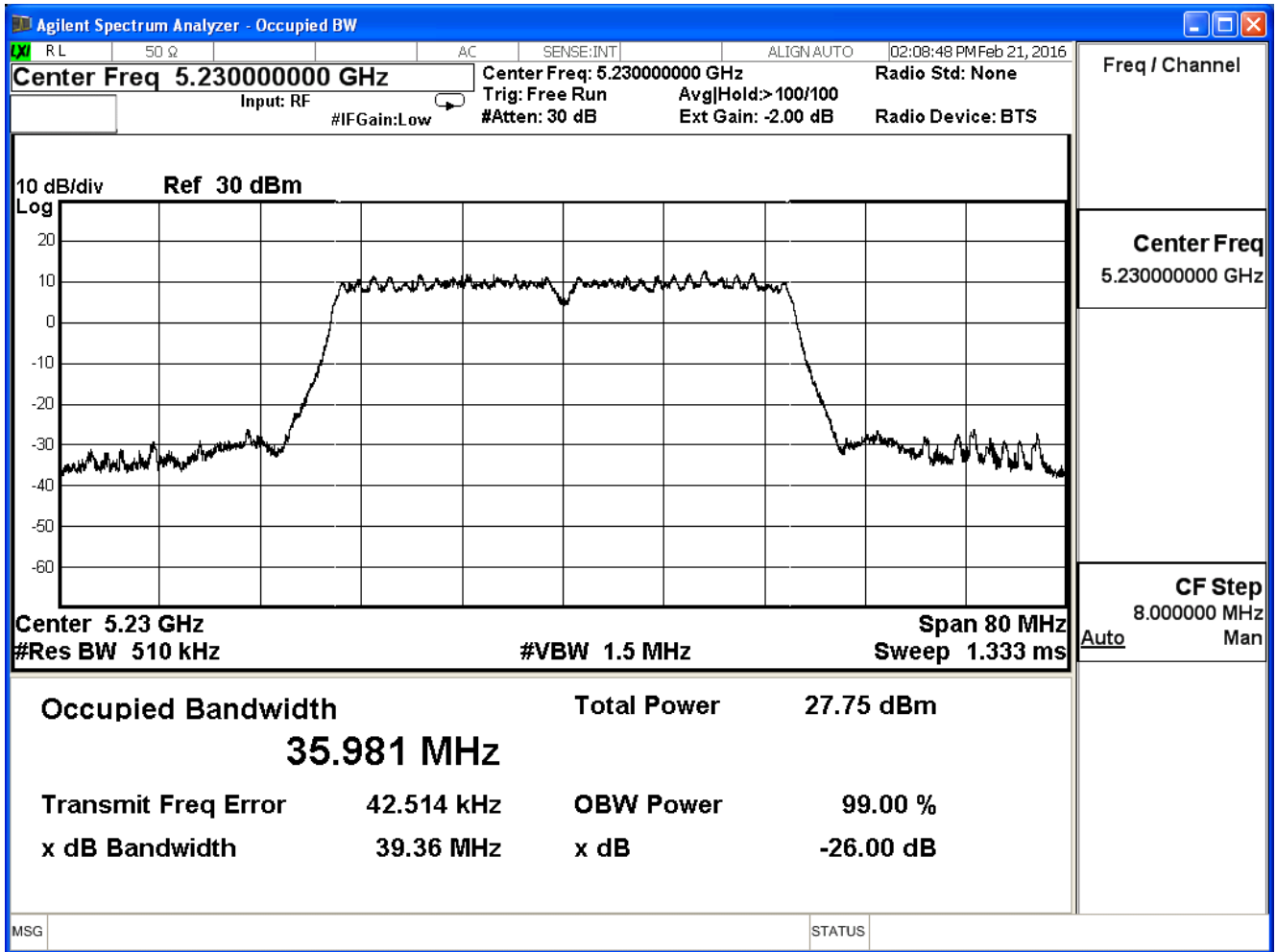
802.11n_40M(ANT 3)

Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
38	5190	40.17	36.07	--	Pass
46	5230	39.36	35.98	--	Pass

99% & 26dB Bandwidth – Channel 38



99% & 26dB Bandwidth – Channel 46

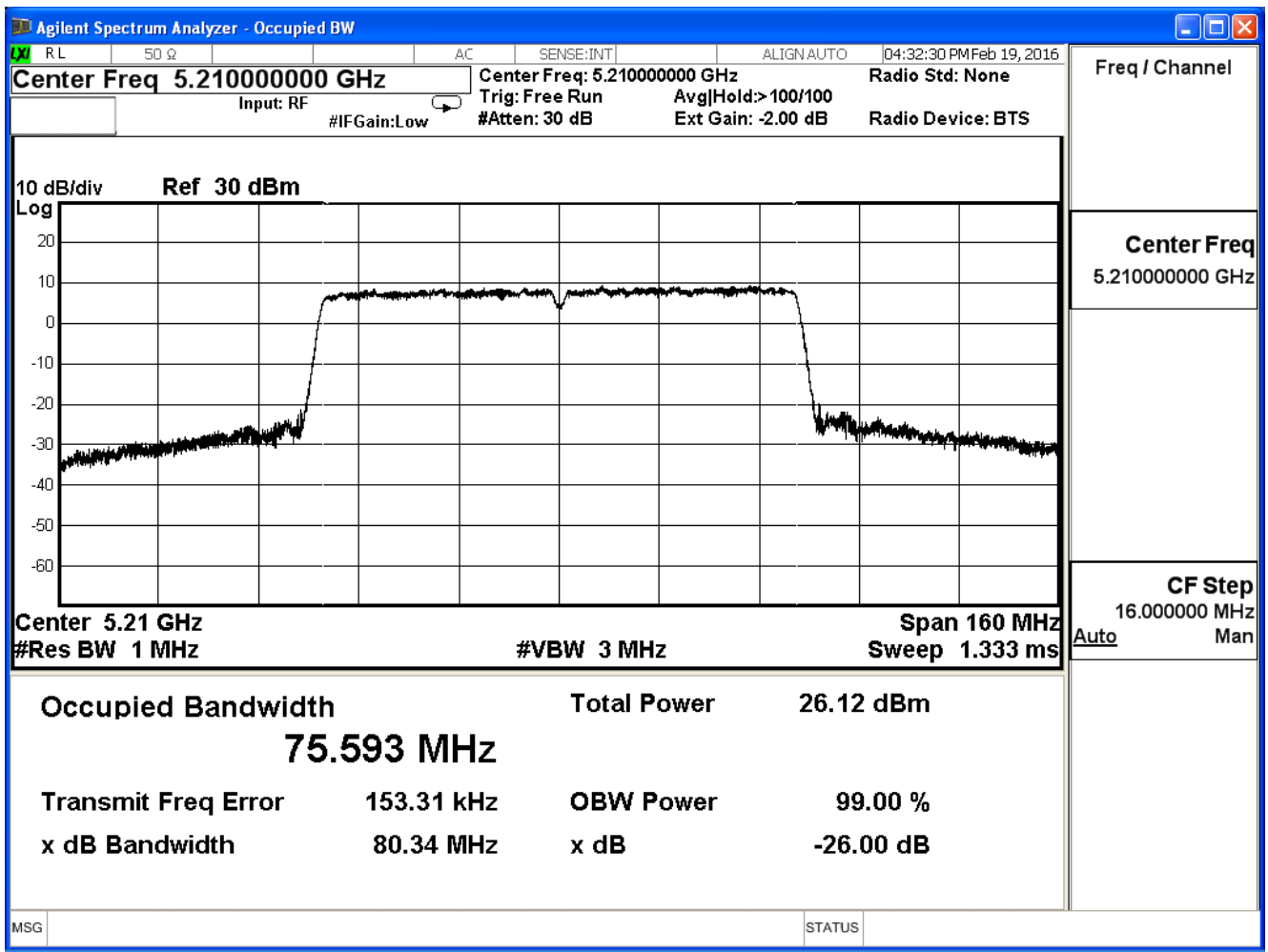


Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/19	Test Site	SR7

802.11 ac_80M(ANT 0)

Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
42	5210	80.34	75.59	--	Pass

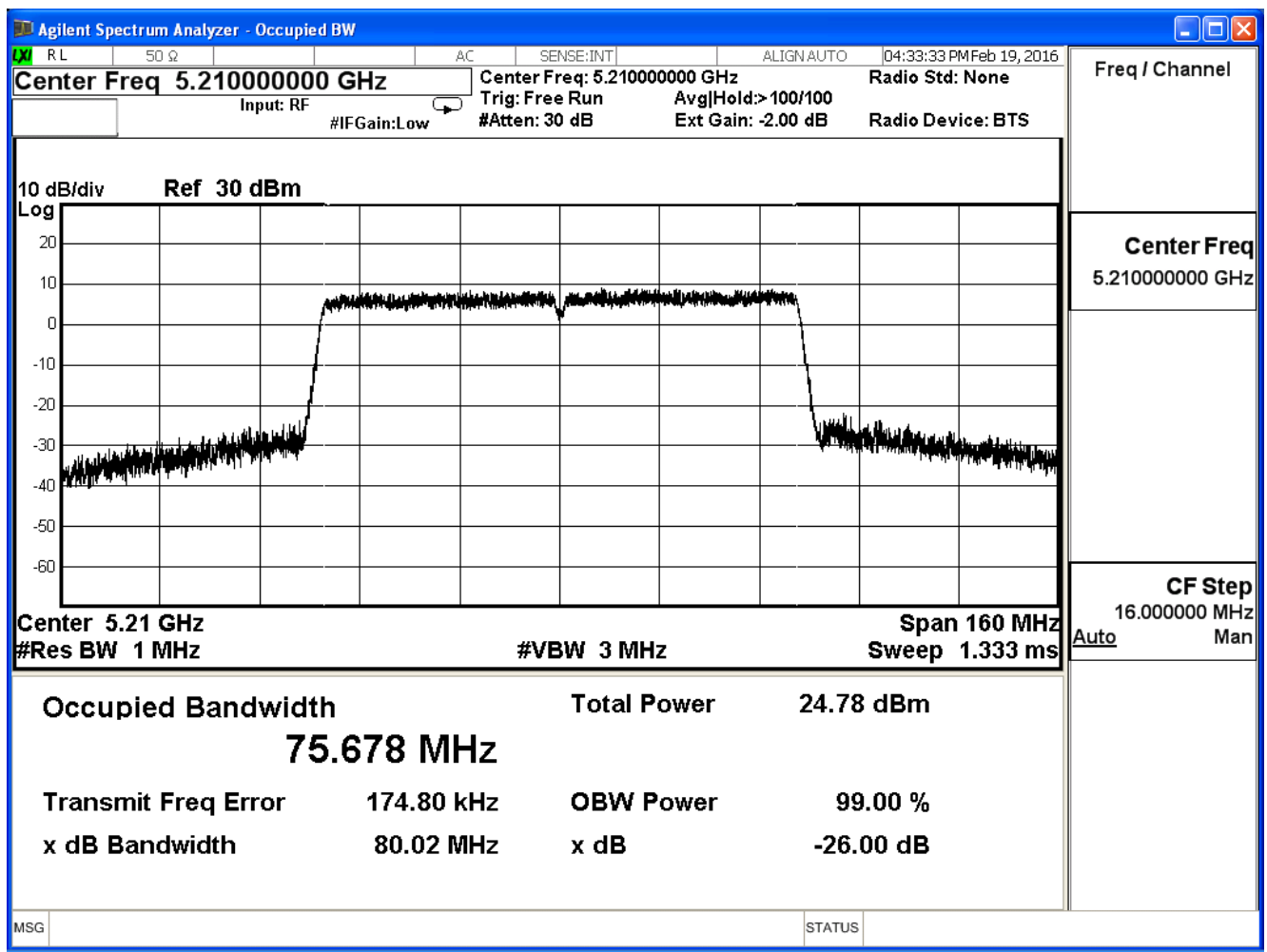
99% & 26dB Bandwidth – Channel 42



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/19	Test Site	SR7

802.11 ac_80M(ANT 1)					
Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
42	5210	80.02	75.68	--	Pass

99% & 26dB Bandwidth – Channel 42

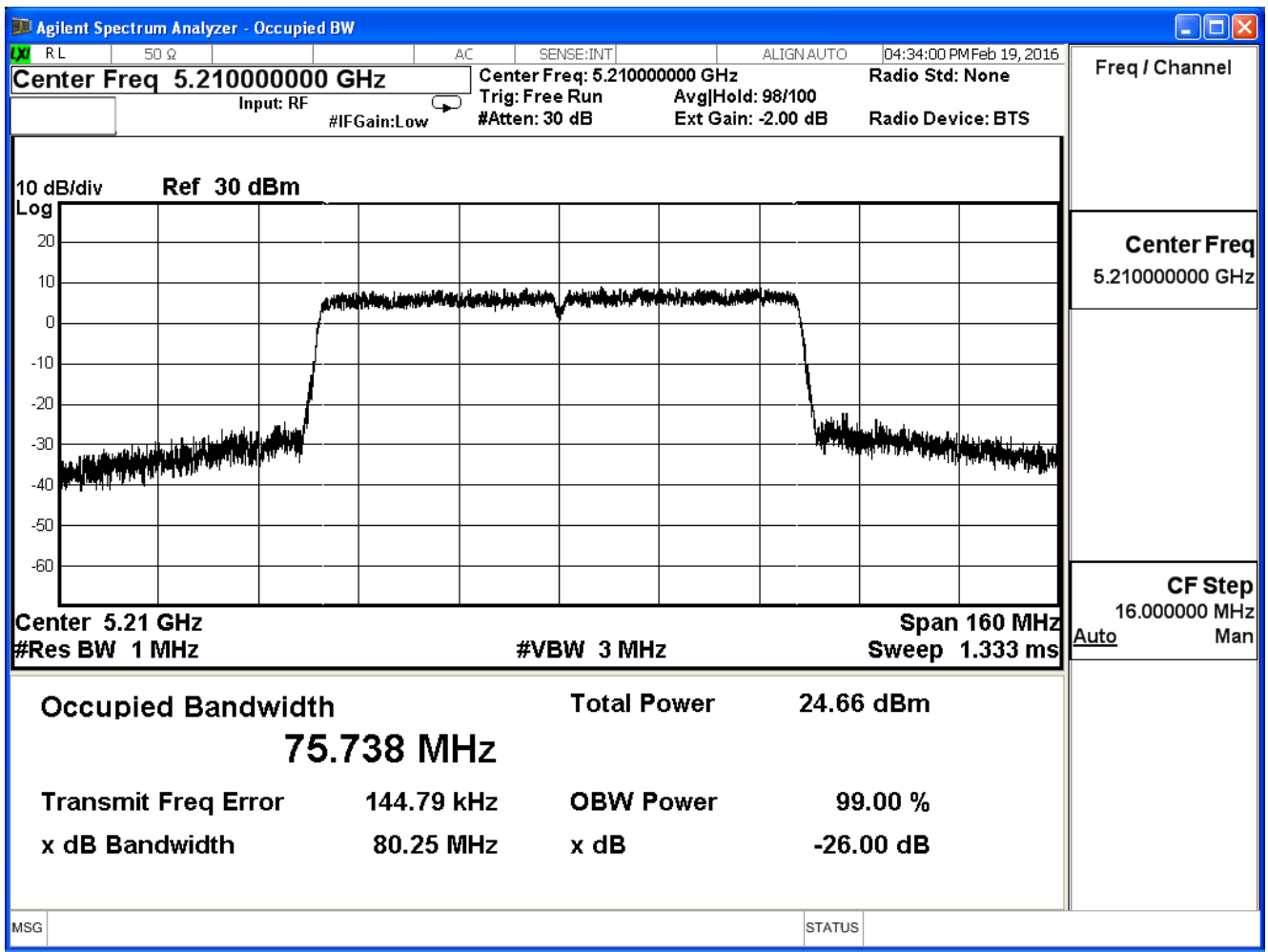


Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/19	Test Site	SR7

802.11 ac_80M(ANT 2)

Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
42	5210	80.25	75.74	--	Pass

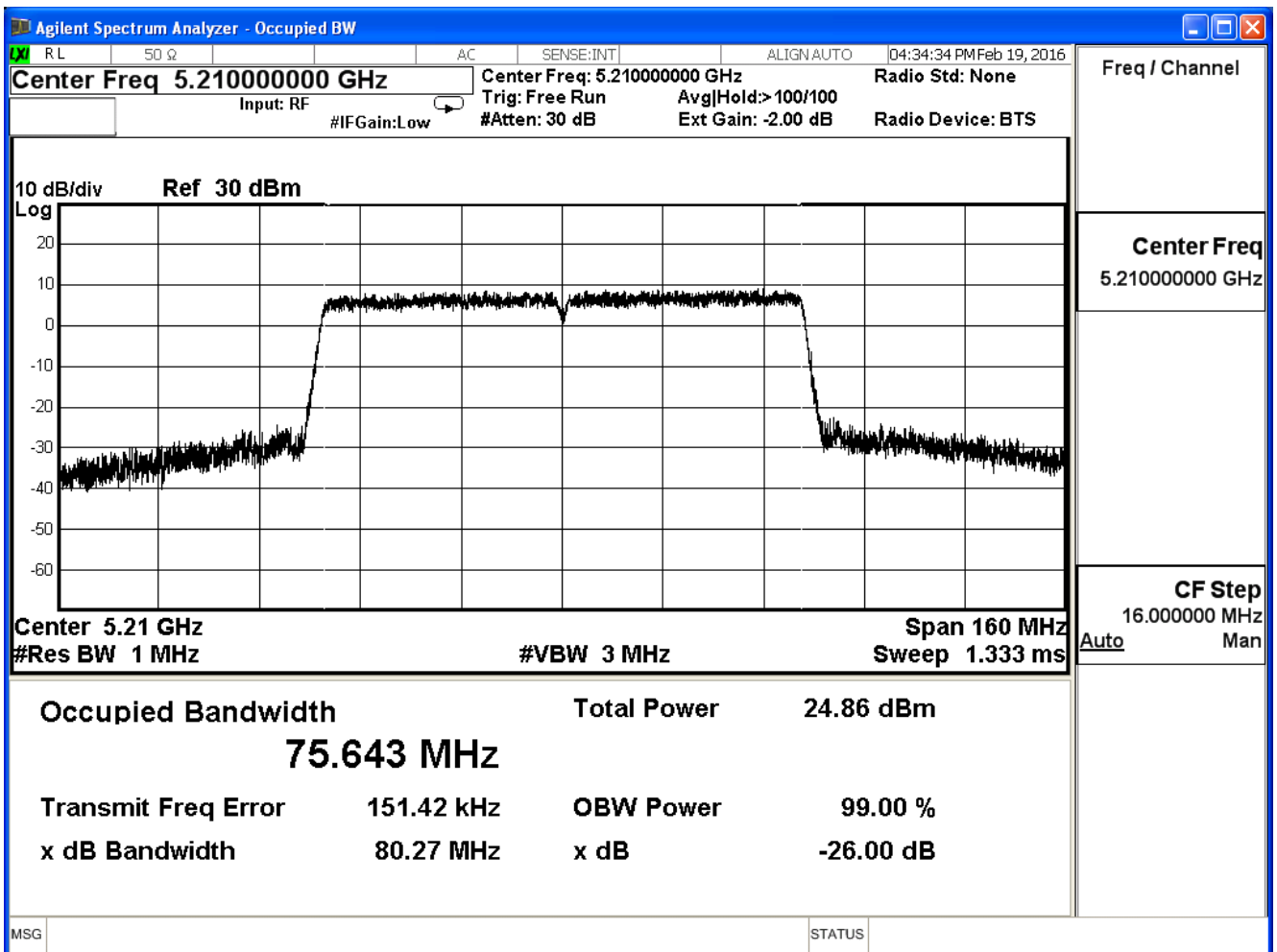
99% & 26dB Bandwidth – Channel 42



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/19	Test Site	SR7

802.11 ac_80M(ANT 3)					
Channel No.	Frequency (MHz)	26dB Bandwidth	99% Bandwidth	Limit (MHz)	Result
		Measure Level (MHz)			
42	5210	80.27	75.64	--	Pass

99% & 26dB Bandwidth – Channel 42



4. Peak Transmit Output

4.1. Test Equipment

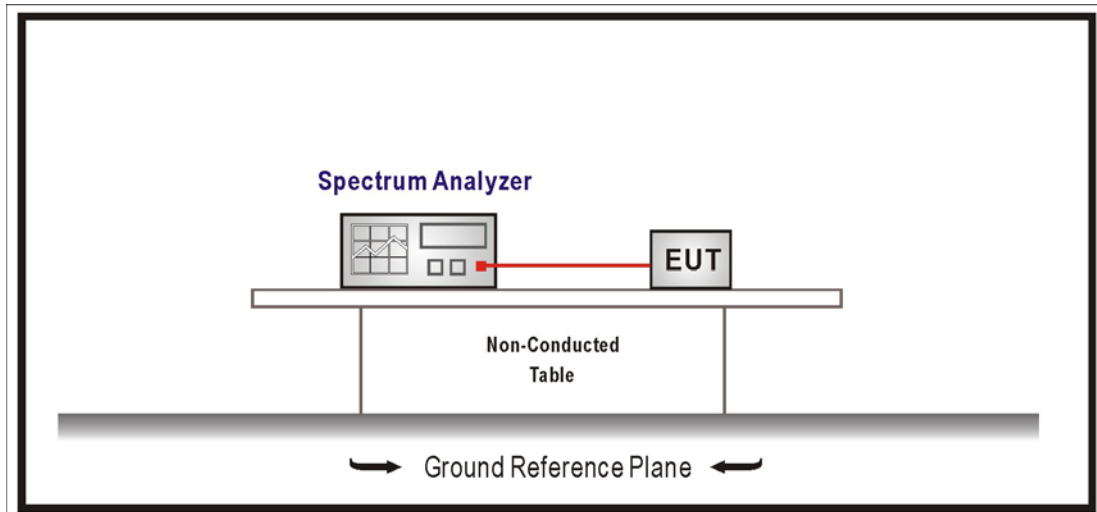
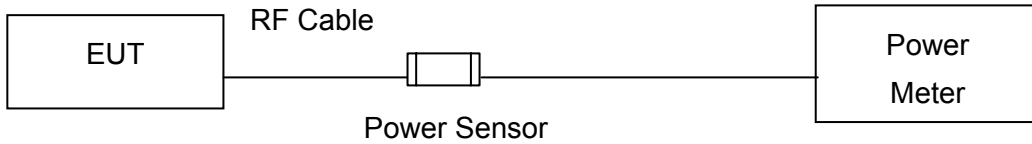
The following test equipments are used during the radiated emission tests:

Peak Transmit Output / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2016/07/13
Power Meter	Agilent	N1911A	MY45101353	2016/10/11
Power Sensor	Agilent	N1921A	MY45241670	2016/10/11

Note: All equipments 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 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.
3. 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 KDB 789033 D02 General UNII Test Procedures New Rules v01 for compliance to FCC 47CFR Subpart E requirements.

4.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

4.6. Test Result

Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/21	Test Site	SR7

IEEE 802.11n_20M (ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
36	5180	18.82	≤30
44	5220	18.76	≤30
48	5240	18.93	≤30

The worst emission of data rate is 6.5 Mbps.

		Peak Power Output (dBm)								Required Limit
MCS Index		0	1	2	3	4	5	6	7	
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
36	5180	18.82	--	--	--	--	--	--	--	≤30dBm
44	5220	18.76	18.65	18.45	18.25	18.01	17.77	17.62	17.50	
48	5240	18.93	--	--	--	--	--	--	--	

Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/21	Test Site	SR7

IEEE 802.11n_20M (ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
36	5180	18.87	≤30
44	5220	18.91	≤30
48	5240	18.74	≤30

The worst emission of data rate is 6.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
				6.5	13	19.5	26	39	52	58.5
36	5180	18.87	--	--	--	--	--	--	--	≤30dBm
44	5220	18.91	18.81	18.69	18.59	18.49	18.36	18.12	18.00	
48	5240	18.74	--	--	--	--	--	--	--	

Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/21	Test Site	SR7

IEEE 802.11n_20M (ANT 2)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
36	5180	18.96	≤30
44	5220	18.72	≤30
48	5240	18.89	≤30

The worst emission of data rate is 6.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
				6.5	13	19.5	26	39	52	58.5
36	5180	18.96	--	--	--	--	--	--	--	≤30dBm
44	5220	18.72	18.52	18.32	18.08	17.98	17.74	17.62	17.38	
48	5240	18.89	--	--	--	--	--	--	--	

Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/21	Test Site	SR7

IEEE 802.11n_20M (ANT 3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
36	5180	19.05	≤30
44	5220	18.88	≤30
48	5240	18.97	≤30

The worst emission of data rate is 6.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	19.05	--	--	--	--	--	--	--	≤30dBm
157	5785	18.88	18.78	18.58	18.34	18.24	18.00	17.88	17.76	
165	5825	18.97	--	--	--	--	--	--	--	

Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/21	Test Site	SR7

IEEE 802.11n_20M (ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
36	5180	24.95	≤30
44	5220	24.84	≤30
48	5240	24.90	≤30

The worst emission of data rate is 6.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
36	5180	24.95	--	--	--	--	--	--	--	≤30dBm
44	5220	24.84	24.71	24.53	24.34	24.21	24.00	23.84	23.69	
48	5240	24.90	--	--	--	--	--	--	--	

Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/21	Test Site	SR7

IEEE 802.11n(40MHz)(ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
38	5190	18.45	≤30
46	5230	20.68	≤30

The worst emission of data rate is 13.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
38	5190	18.45	--	--	--	--	--	--	--	≤30dBm
46	5230	20.68	20.48	20.28	20.08	19.98	19.86	19.74	19.50	

Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit Beamforming Mode Adapter 1		
Date of Test	2016/02/21	Test Site	SR7

IEEE 802.11n(40MHz)(ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
38	5190	18.51	≤30
46	5230	20.64	≤30

The worst emission of data rate is 13.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
				13.5	27	40.5	54	81	108	121.5
38	5190	18.51	--	--	--	--	--	--	--	≤30dBm
46	5230	20.64	20.54	20.44	20.34	20.14	19.90	19.66	19.54	

Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit Beamforming Mode Adapter 1		
Date of Test	2016/02/21	Test Site	SR7

IEEE 802.11n(40MHz)(ANT 2)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
38	5190	18.53	≤30
46	5230	20.66	≤30

The worst emission of data rate is 13.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
38	5190	18.53	--	--	--	--	--	--	--	≤30dBm
46	5230	20.66	20.46	20.26	20.06	19.86	19.62	19.50	19.26	

Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/21	Test Site	SR7

IEEE 802.11n(40MHz)(ANT 3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
38	5190	18.61	≤30
46	5230	20.72	≤30

The worst emission of data rate is 13.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
38	5190	18.61	--	--	--	--	--	--	--	≤30dBm
46	5230	20.72	20.62	20.52	20.42	20.22	20.10	19.86	19.74	

Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit Beamforming Mode Adapter 1		
Date of Test	2016/02/21	Test Site	SR7

IEEE 802.11n(40MHz)(ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
38	5190	24.55	≤30
46	5230	26.70	≤30

The worst emission of data rate is 13.5 Mbps.

		Peak Power Output (dBm)								Required Limit
MCS Index		0	1	2	3	4	5	6	7	
Channel No	Frequency (MHz)	Data Rate								≤30dBm
		13.5	27	40.5	54	81	108	121.5	135	
38	5190	24.55	--	--	--	--	--	--	--	
46	5230	26.70	23.55	23.40	23.25	23.05	22.88	22.69	22.52	

Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/21	Test Site	SR7

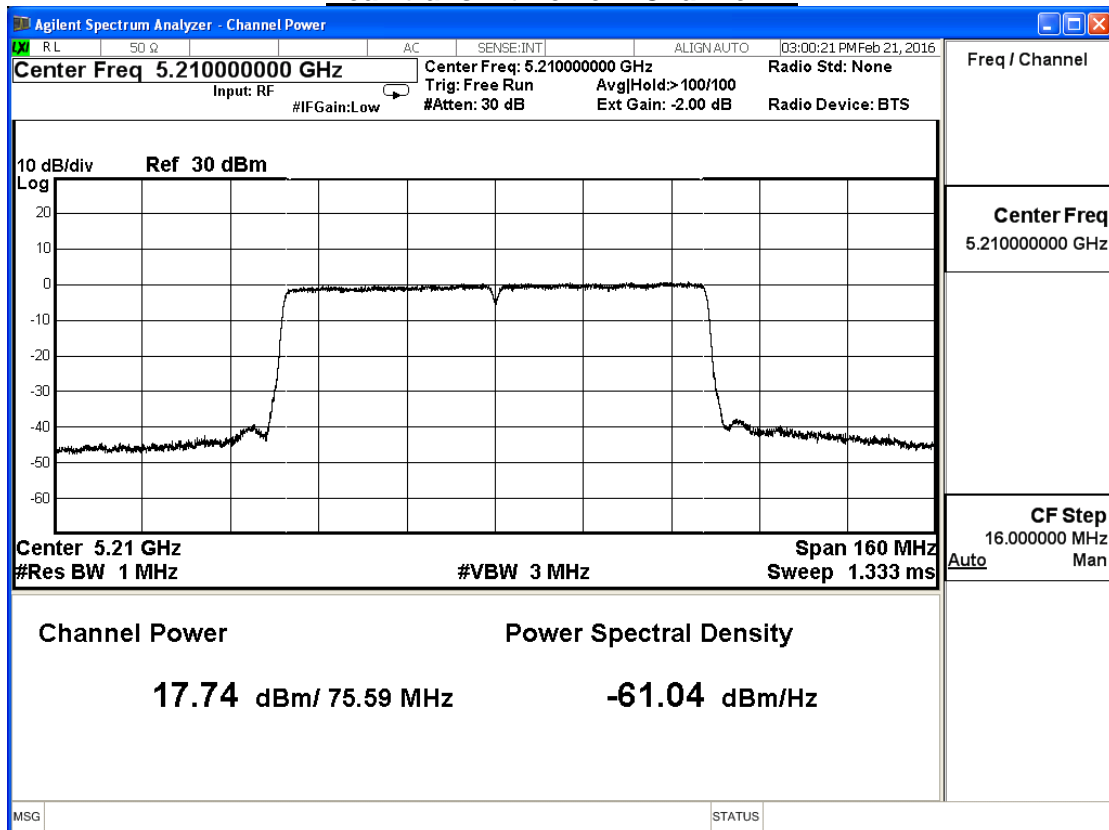
IEEE 802.11ac (80MHz) (ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
42	5210	17.74	≤30

The worst emission of data rate is 29.3 Mbps

Peak Power Output (dBm)												Required Limit
MCS Index	0	1	2	3	4	5	6	7	8	9		
Channel No	Data Rate											≤30dBm
Frequency (MHz)	29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390		
42	5210	17.74	17.54	17.34	17.14	16.94	16.84	16.60	16.48	16.36	16.12	

Peak transmit Power - Channel 42



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/21	Test Site	SR7

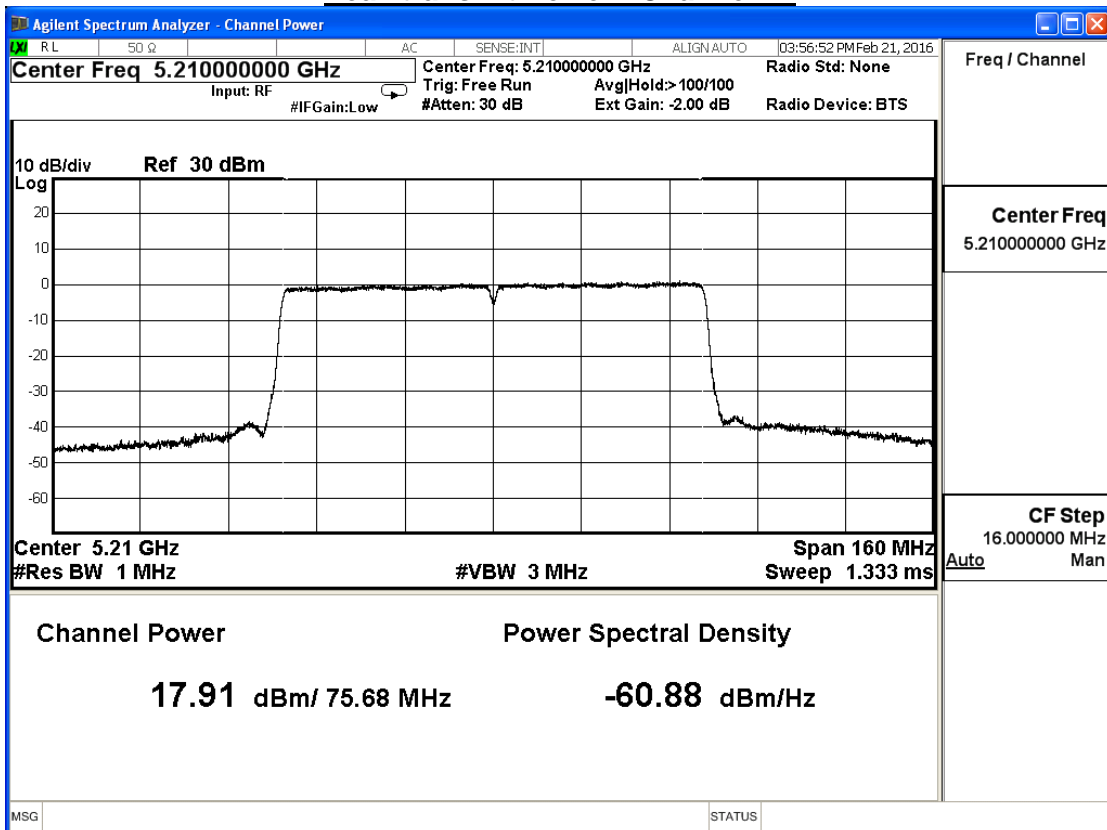
IEEE 802.11ac (80MHz) (ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
42	5210	17.91	≤30

The worst emission of data rate is 29.3 Mbps

Peak Power Output (dBm)												Required Limit
MCS Index	0	1	2	3	4	5	6	7	8	9		
Channel No	Data Rate											≤30dBm
Frequency (MHz)	29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390		
42	5210	17.91	17.81	17.61	17.41	17.21	17.11	16.87	16.75	16.51	16.39	

Peak transmit Power - Channel 42



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit Beamforming Mode Adapter 1		
Date of Test	2016/02/21	Test Site	SR7

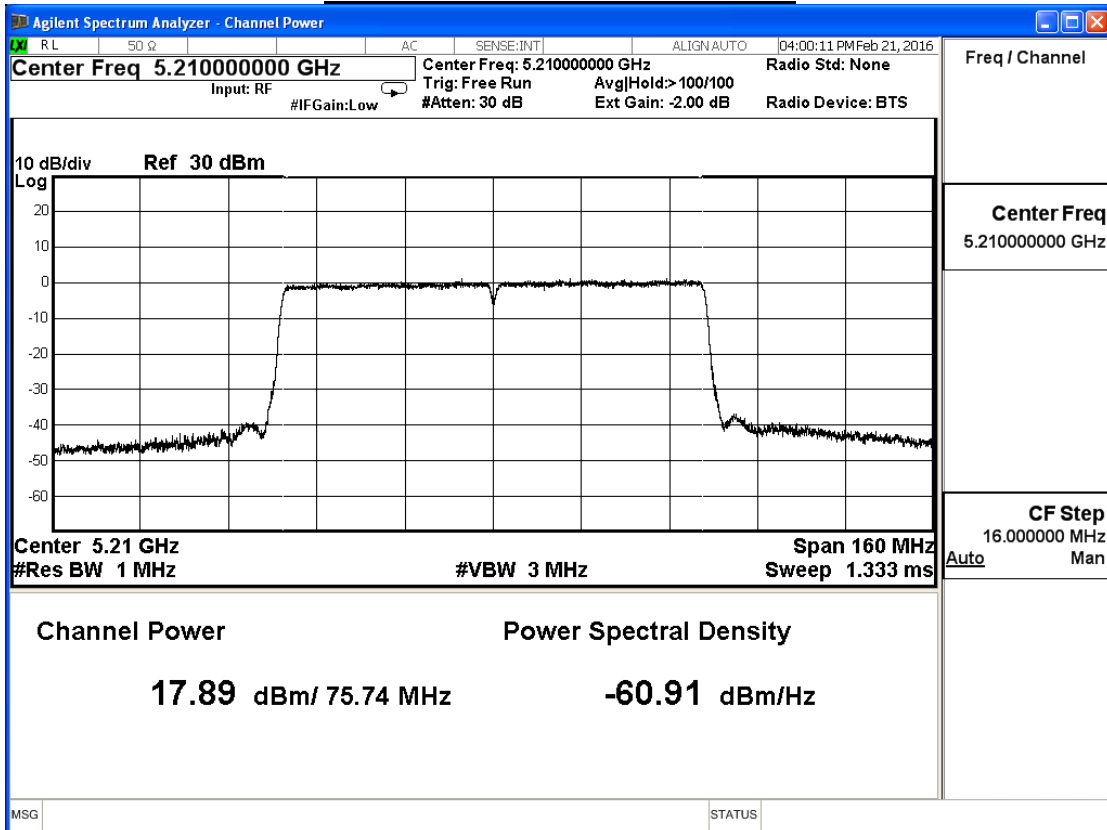
IEEE 802.11ac (80MHz) (ANT 2)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
42	5210	17.89	≤30

The worst emission of data rate is 29.3 Mbps

Peak Power Output (dBm)												Required Limit
MCS Index	0	1	2	3	4	5	6	7	8	9		
Channel No	Data Rate											≤30dBm
Frequency (MHz)	29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390		
42	5210	17.89	17.69	17.49	17.39	17.19	17.09	16.97	16.73	16.61	16.49	

Peak transmit Power - Channel 42



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/21	Test Site	SR7

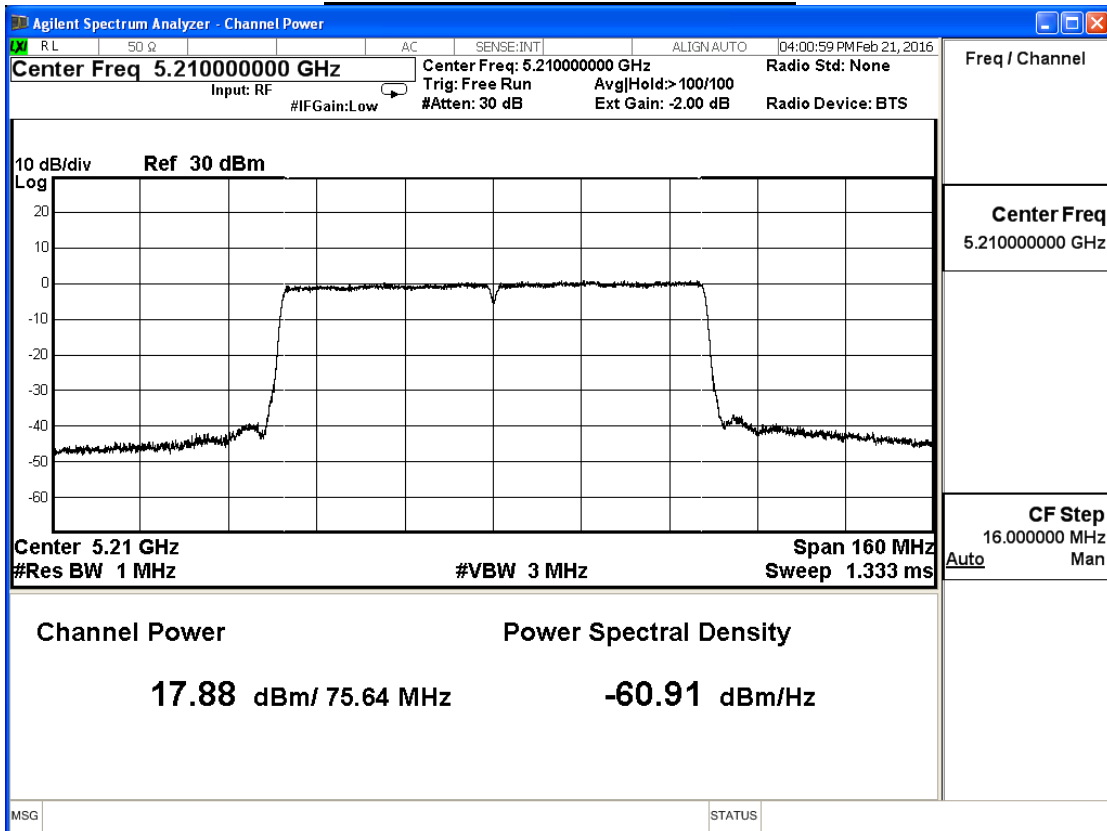
IEEE 802.11ac (80MHz) (ANT 3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
42	5210	17.88	≤30

The worst emission of data rate is 29.3 Mbps

Peak Power Output (dBm)												
MCS Index	0	1	2	3	4	5	6	7	8	9	Required Limit	
Channel No	Frequency (MHz)	Data Rate										Limit
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390	
42	5210	17.88	17.68	17.48	17.38	17.28	17.18	16.94	16.70	16.46	16.34	≤30dBm

Peak transmit Power - Channel 42



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/21	Test Site	SR7

IEEE 802.11ac (80MHz) (ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
42	5210	23.88	≤30

The worst emission of data rate is 29.3 Mbps

		Peak Power Output (dBm)										Required Limit
MCS Index		0	1	2	3	4	5	6	7	8	9	
Channel No	Frequency (MHz)	Data Rate										≤30dBm
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390	
42	5210	23.88	23.70	23.53	23.38	23.25	23.13	22.95	22.74	22.53	22.32	

5. Peak Power Spectrum Density

5.1. Test Equipment

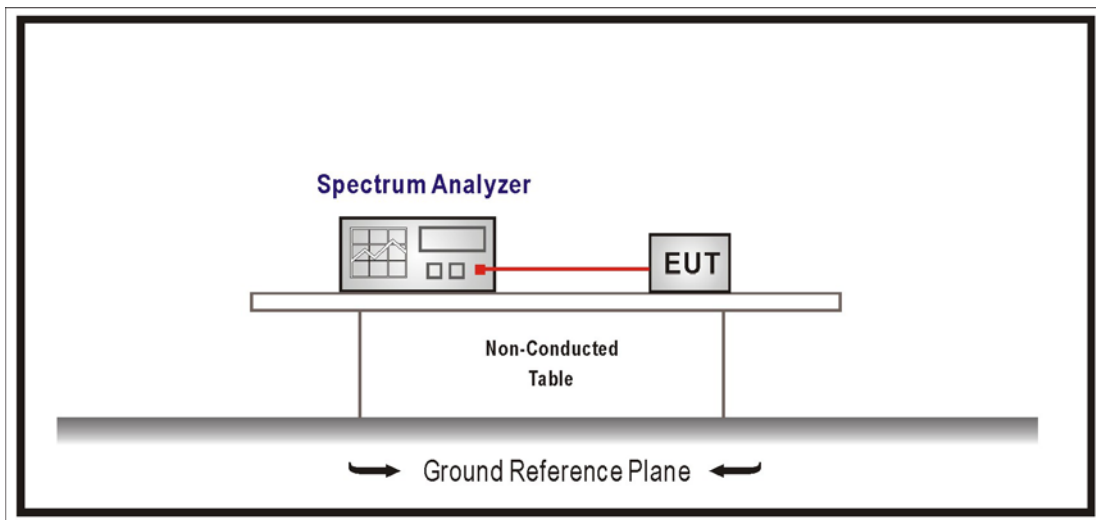
The following test equipments are used during the radiated emission tests:

Peak Power Spectrum Density / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2016/07/13

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

5.2. Test Setup



5.3. Limits

1. For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 17 dBm in any 1MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
2. For the band 5.25-5.35 GHz, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725-5.850 GHz, the peak power spectral density shall not exceed 30 dBm in any 500KHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

5.4. Test Procedure

The EUT was setup to ANSI C63.10: 2013; tested to U-NII test procedure of KDB 789033 for compliance to FCC 47CFR Subpart E requirements.

For Band1 : Set RBW=1MHz, VBW=3MHz with RMS detector. The PPSD is the highest level found across the emission in any 1-MHz band after 100 sweeps of averaging.

For Band4 : Set RBW=500KHz, VBW=1.5MHz with RMS detector. The PPSD is the highest level found across the emission in any 500KHz band after 100 sweeps of averaging.

5.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

5.6. Test Result

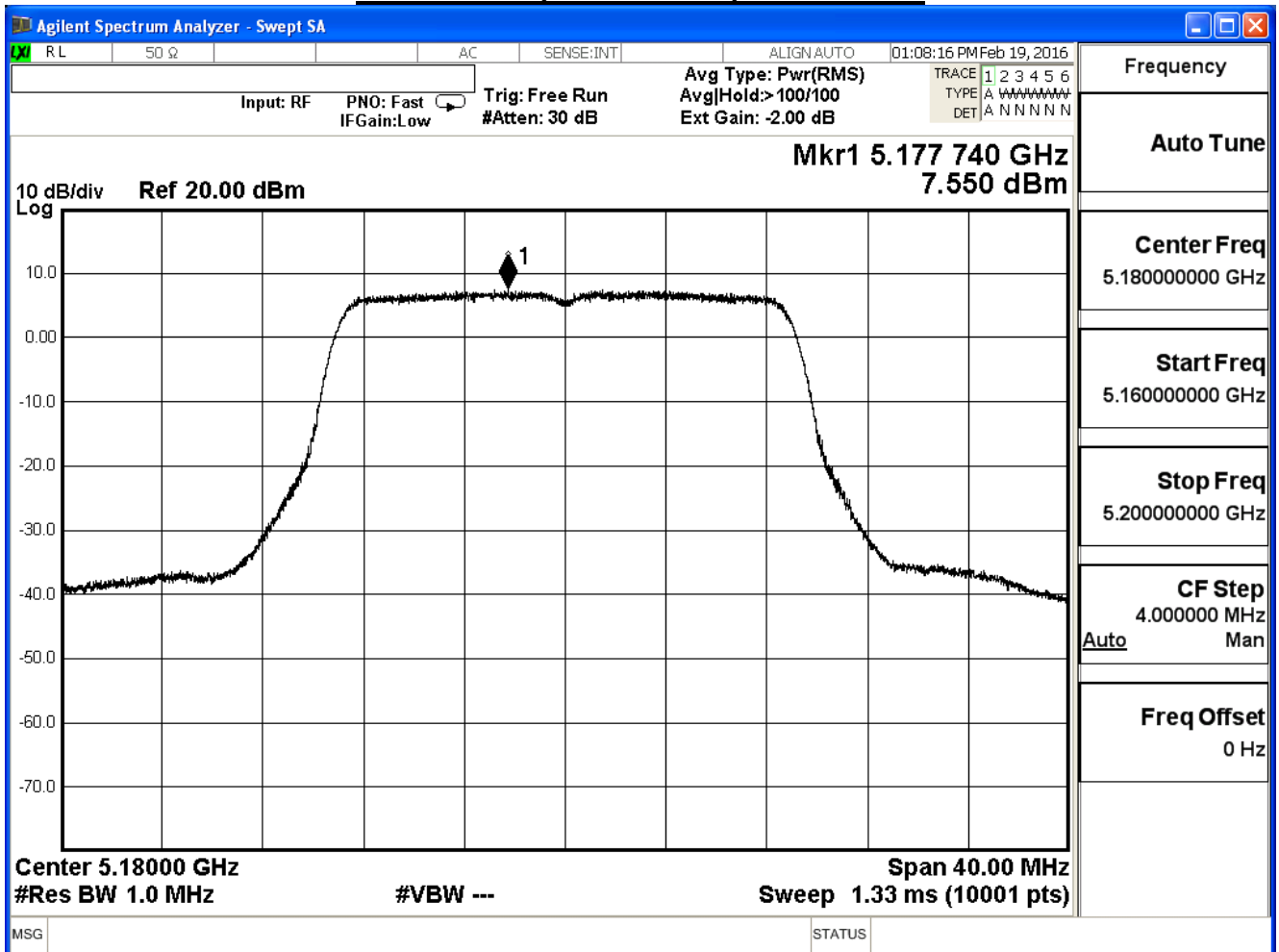
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/19	Test Site	SR7

IEEE 802.11n_20M (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
36	5180	7.550	≤ 13.79	Pass
44	5220	7.487	≤ 13.79	Pass
48	5240	7.765	≤ 13.79	Pass

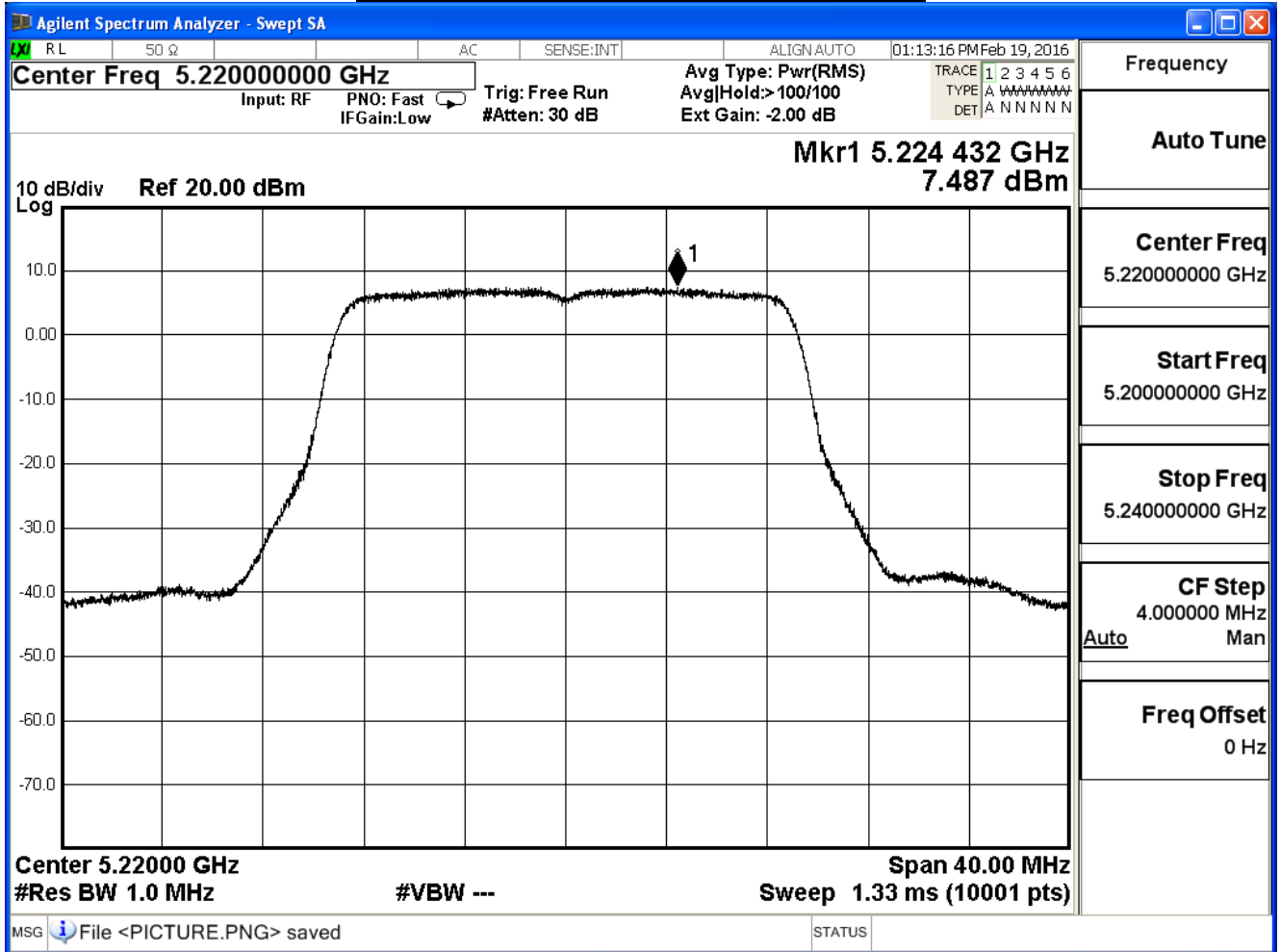
Directional Antenna: $10 \log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21 \text{dBi}$

Power Density Limit: $17 \text{dBm} - (9.21 \text{dBi} - 6 \text{dB}) = 13.79 \text{ dBm/MHz}$

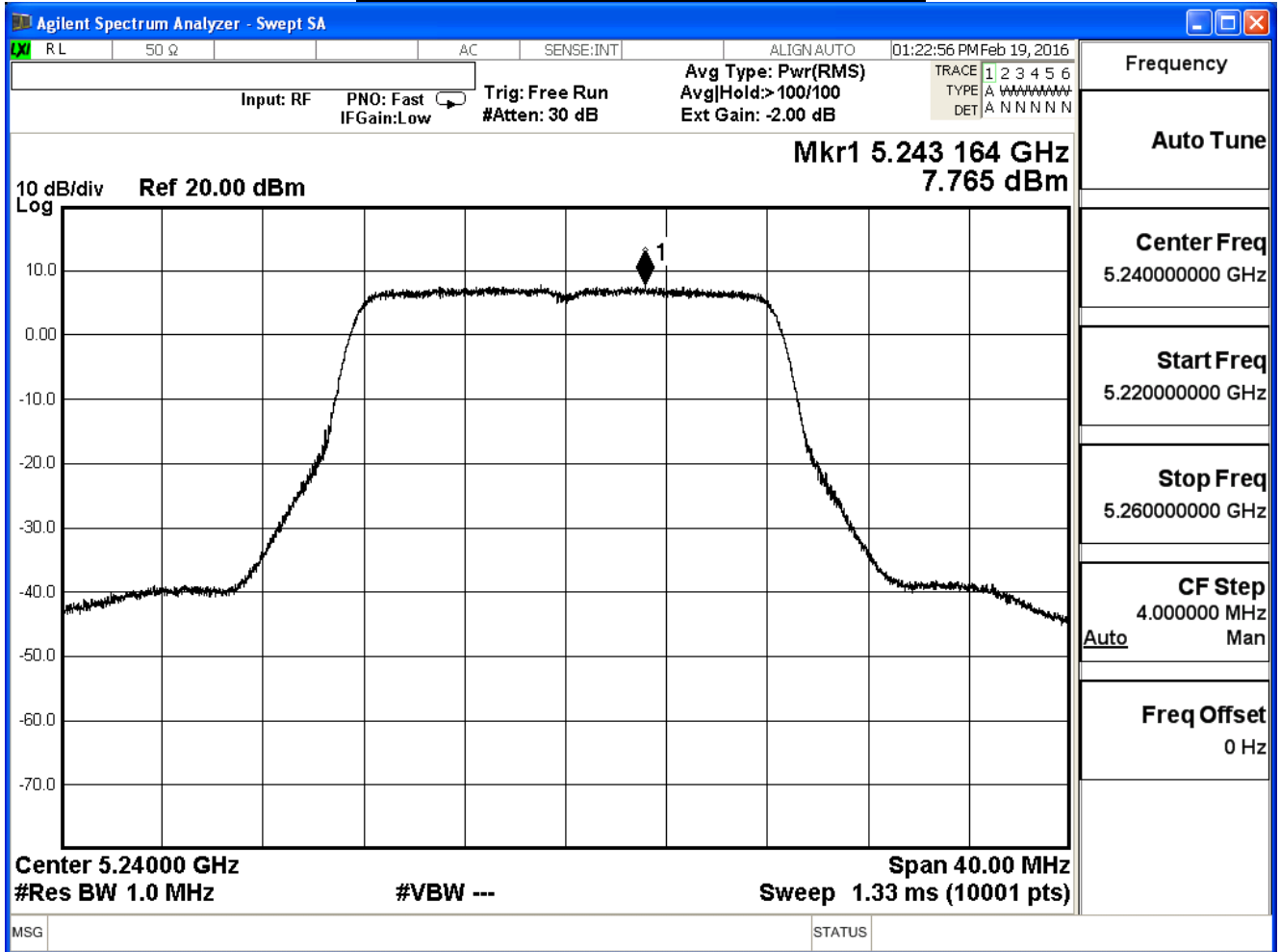
Peak Power Spectral Density – Channel 36



Peak Power Spectral Density – Channel 44



Peak Power Spectral Density – Channel 48



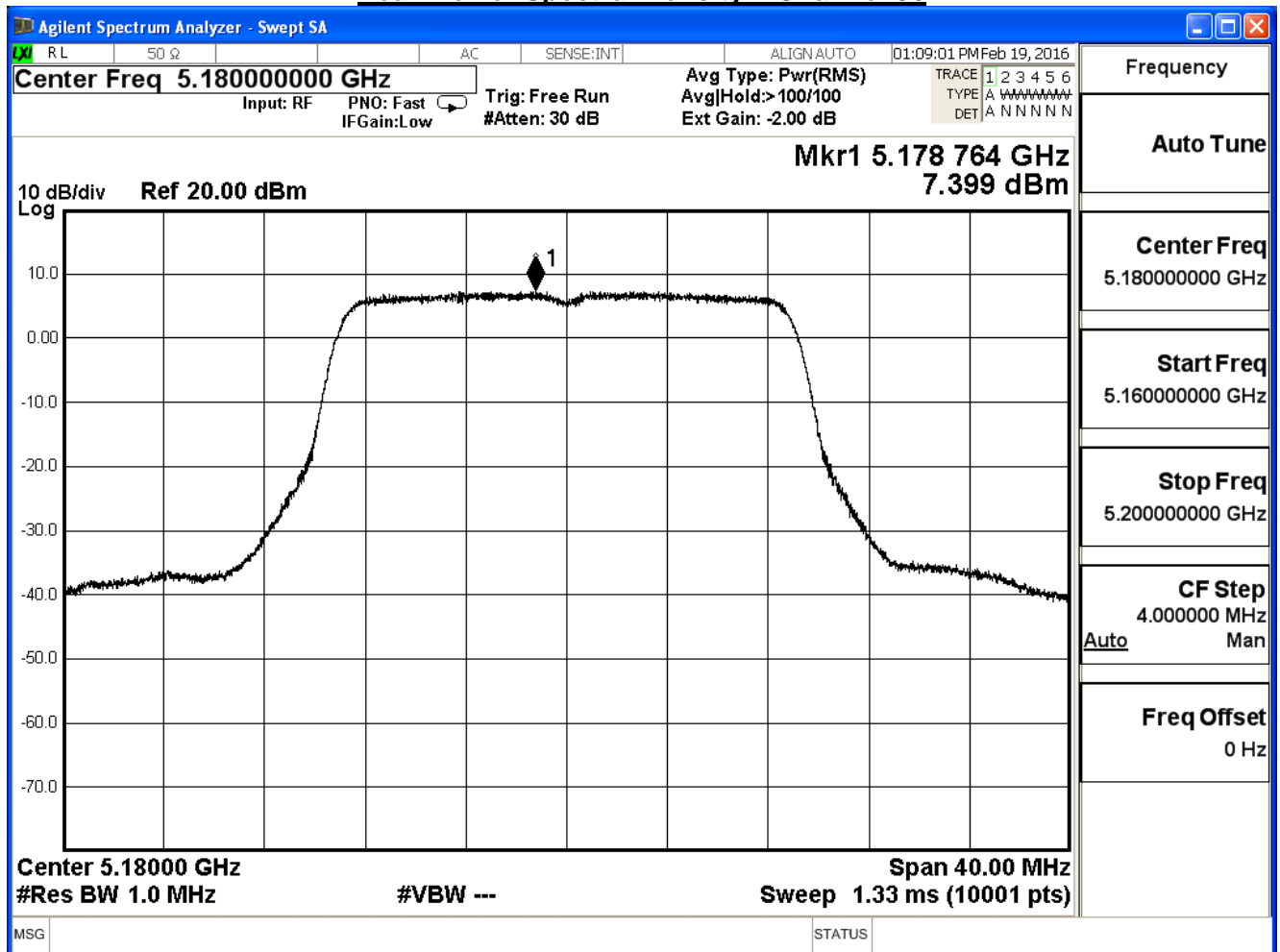
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/19	Test Site	SR7

IEEE 802.11n_20M (ANT 1)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
36	5180	7.399	≤ 13.79	Pass
44	5220	7.524	≤ 13.79	Pass
48	5240	7.660	≤ 13.79	Pass

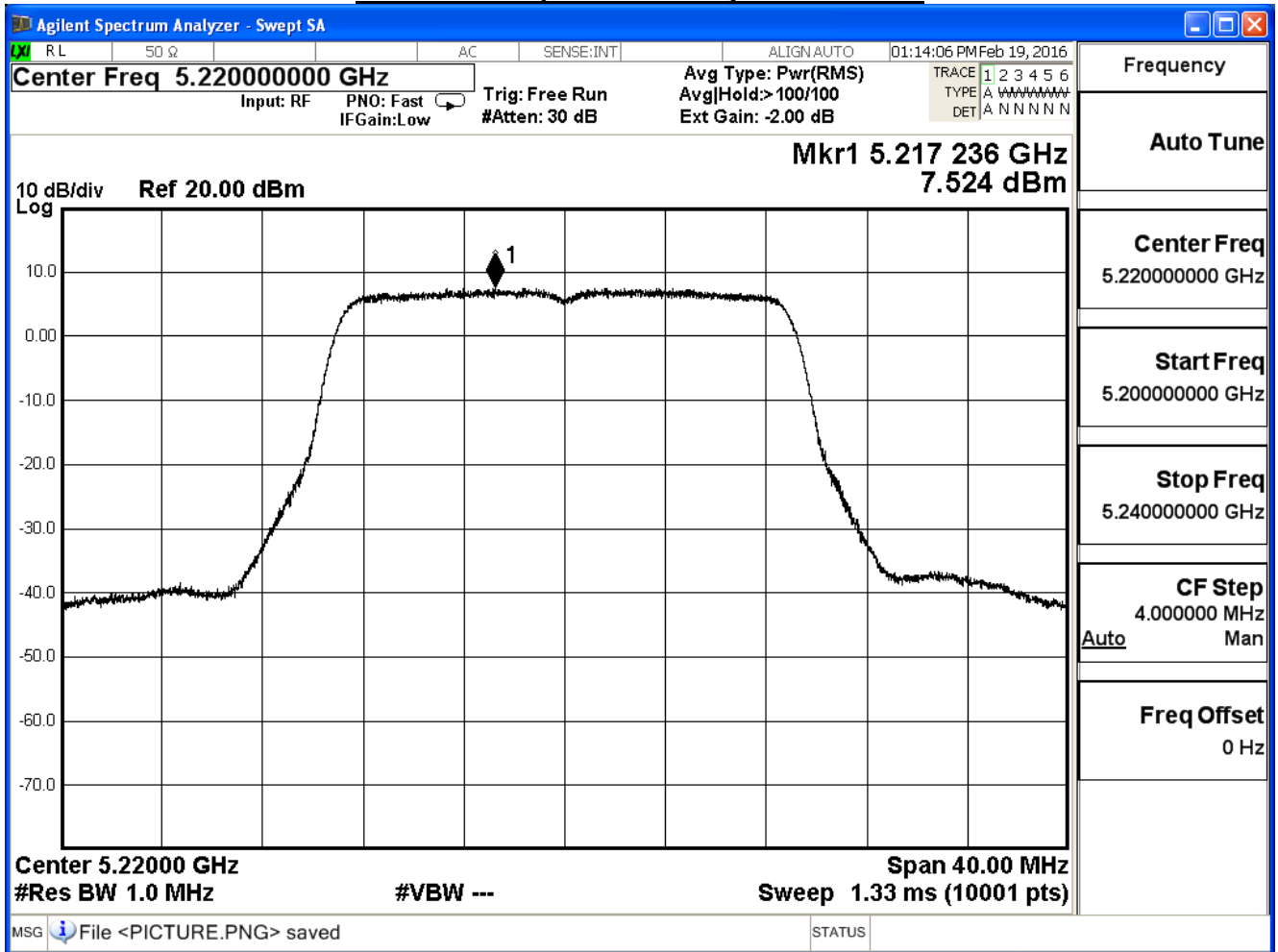
Directional Antenna: $10 \log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21 \text{dBi}$

Power Density Limit: $17 \text{dBm} - (9.21 \text{dBi} - 6 \text{dB}) = 13.79 \text{ dBm/MHz}$

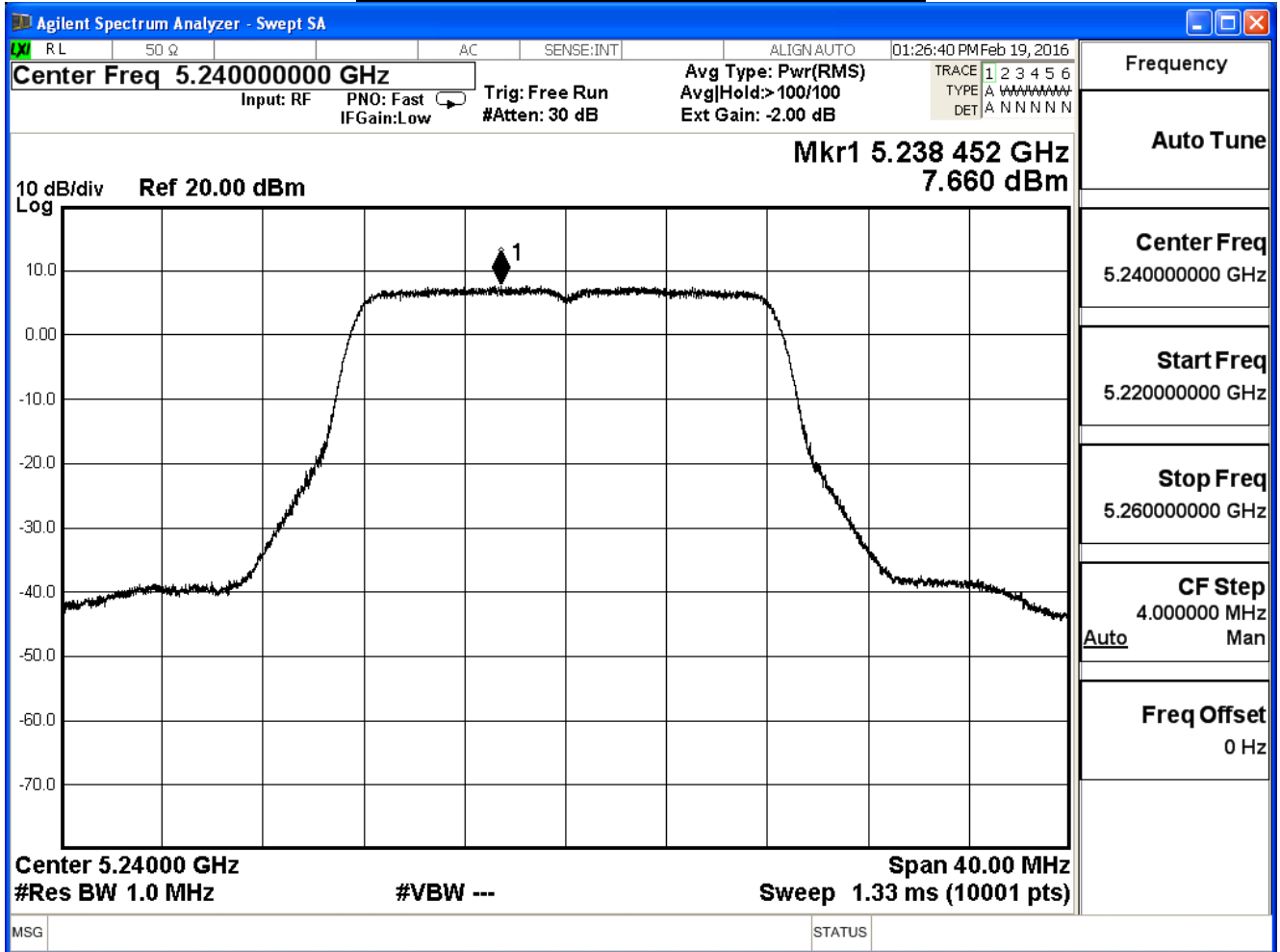
Peak Power Spectral Density – Channel 36



Peak Power Spectral Density – Channel 44



Peak Power Spectral Density – Channel 48



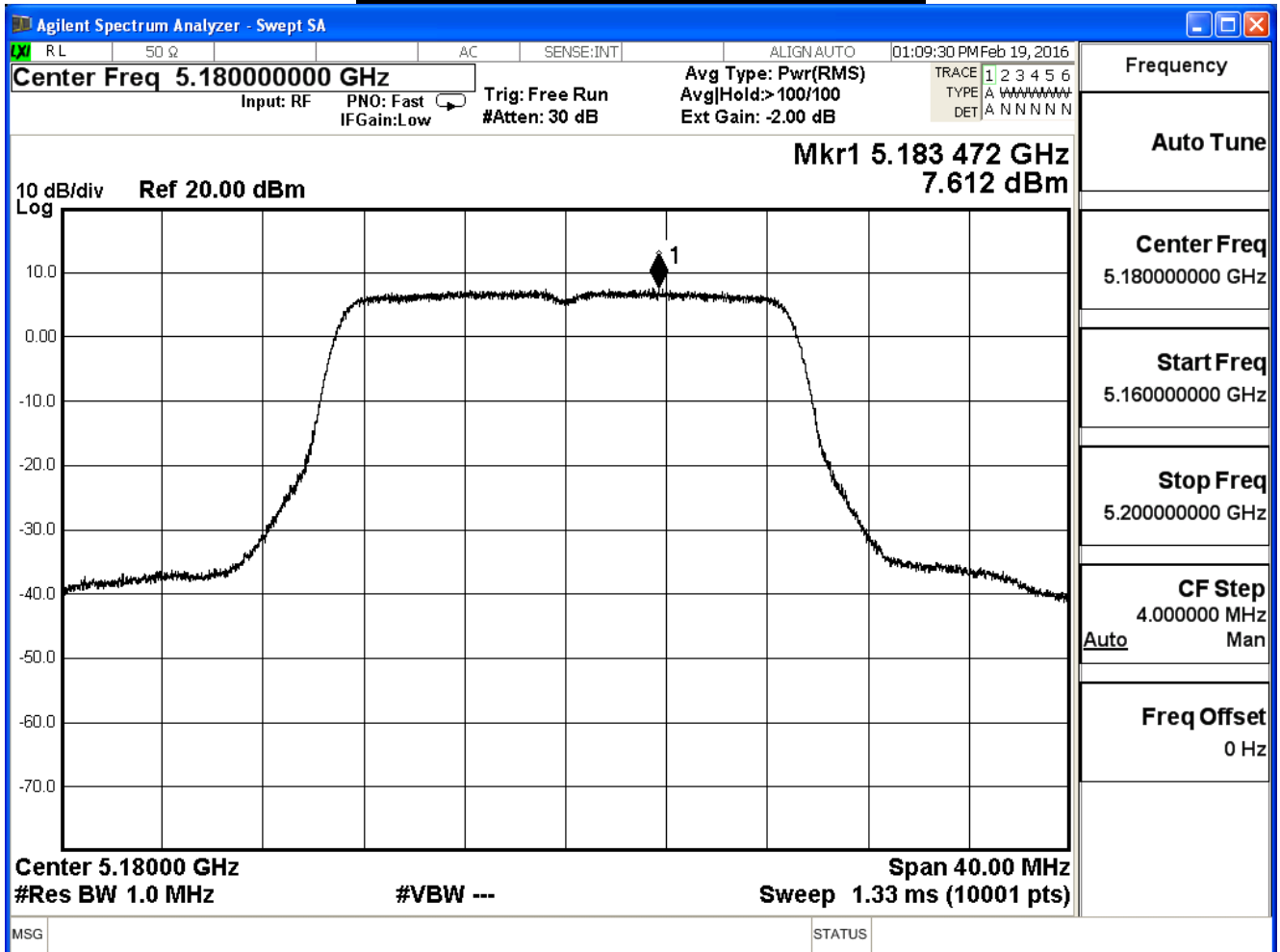
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/19	Test Site	SR7

IEEE 802.11n_20M (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
36	5180	7.612	≤ 13.79	Pass
44	5220	7.464	≤ 13.79	Pass
48	5240	7.628	≤ 13.79	Pass

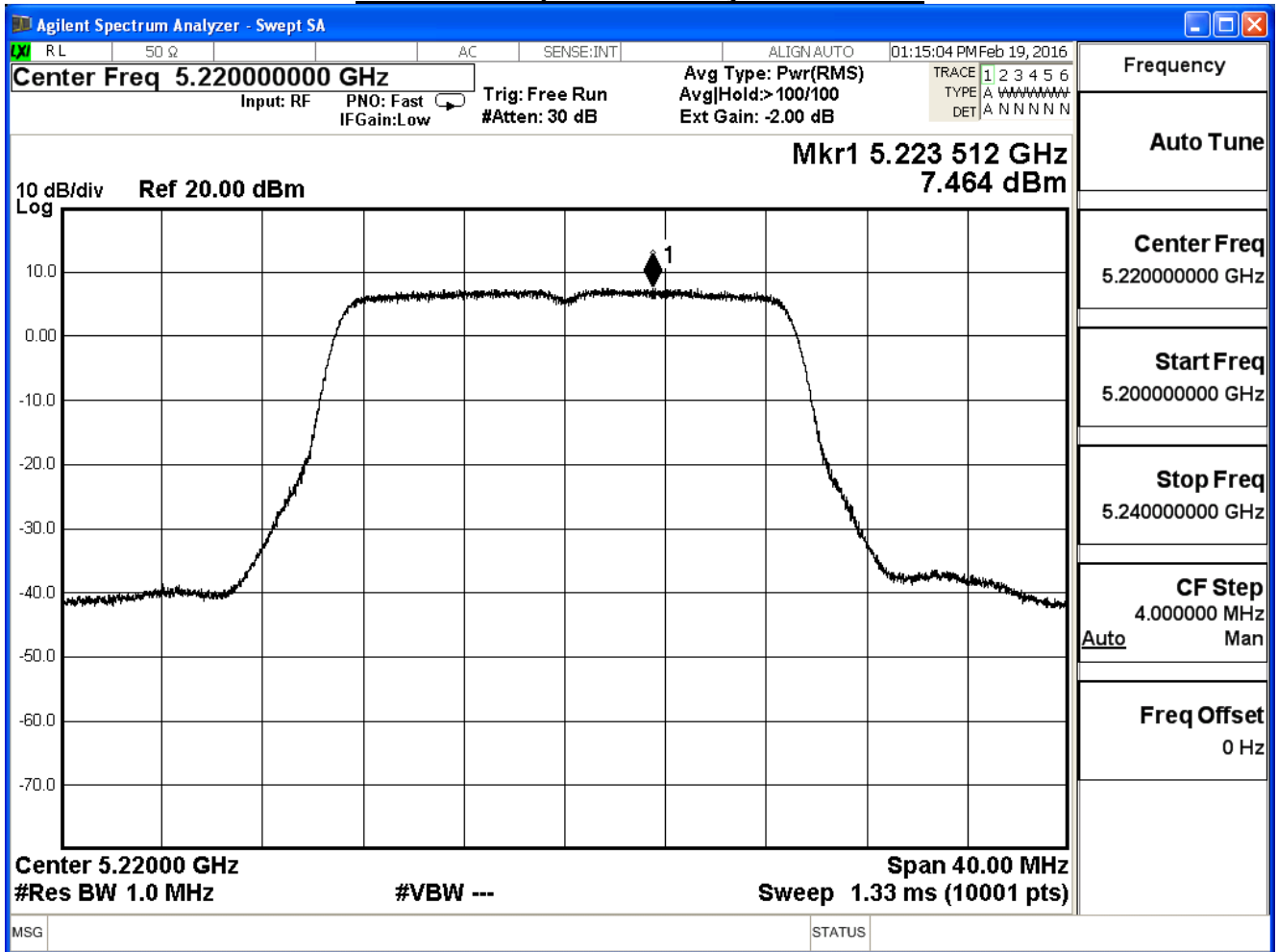
Directional Antenna: $10 \log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21 \text{dBi}$

Power Density Limit: $17 \text{dBm} - (9.21 \text{dBi} - 6 \text{dB}) = 13.79 \text{ dBm/MHz}$

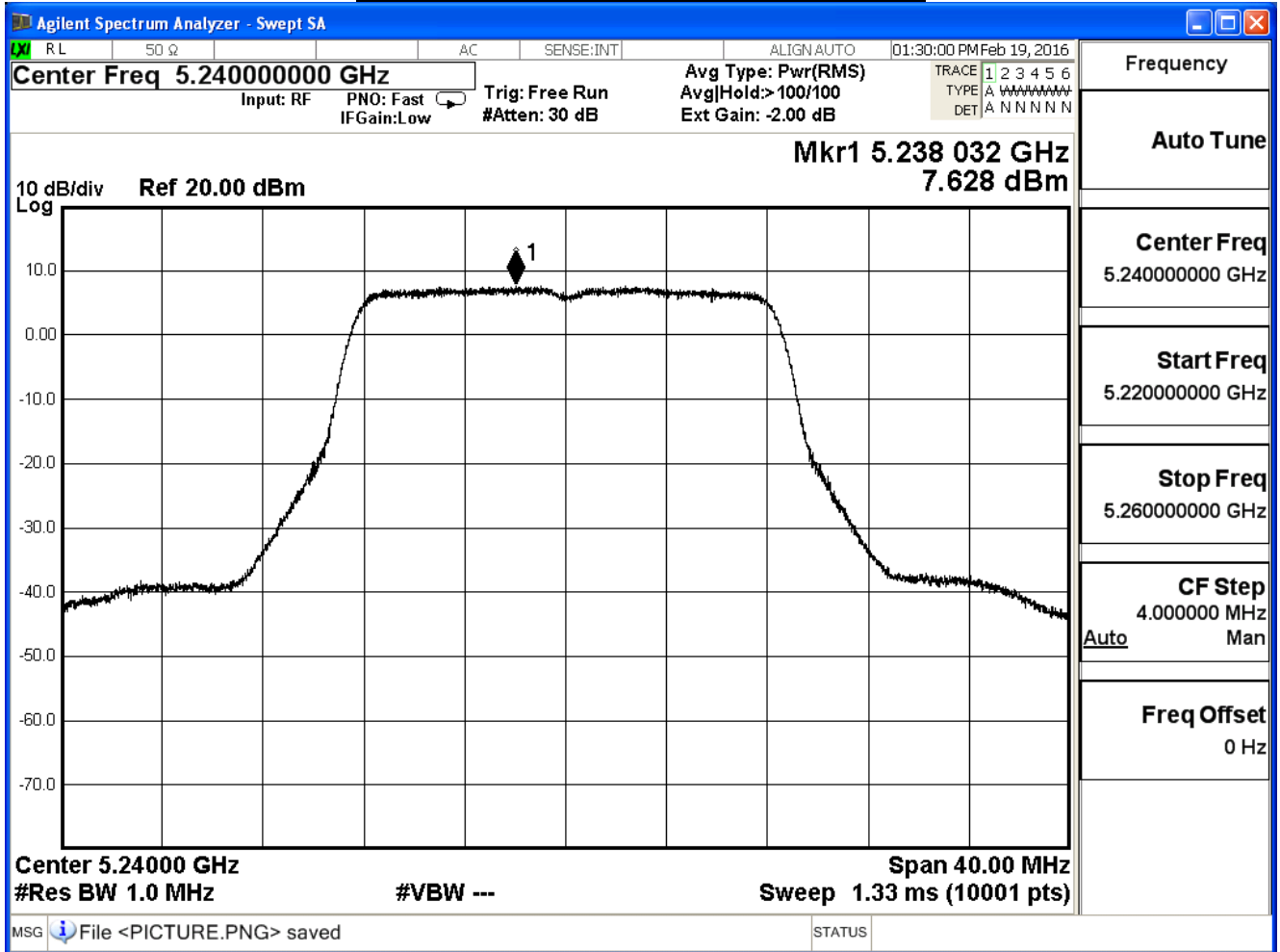
Peak Power Spectral Density – Channel 36



Peak Power Spectral Density – Channel 44



Peak Power Spectral Density – Channel 48



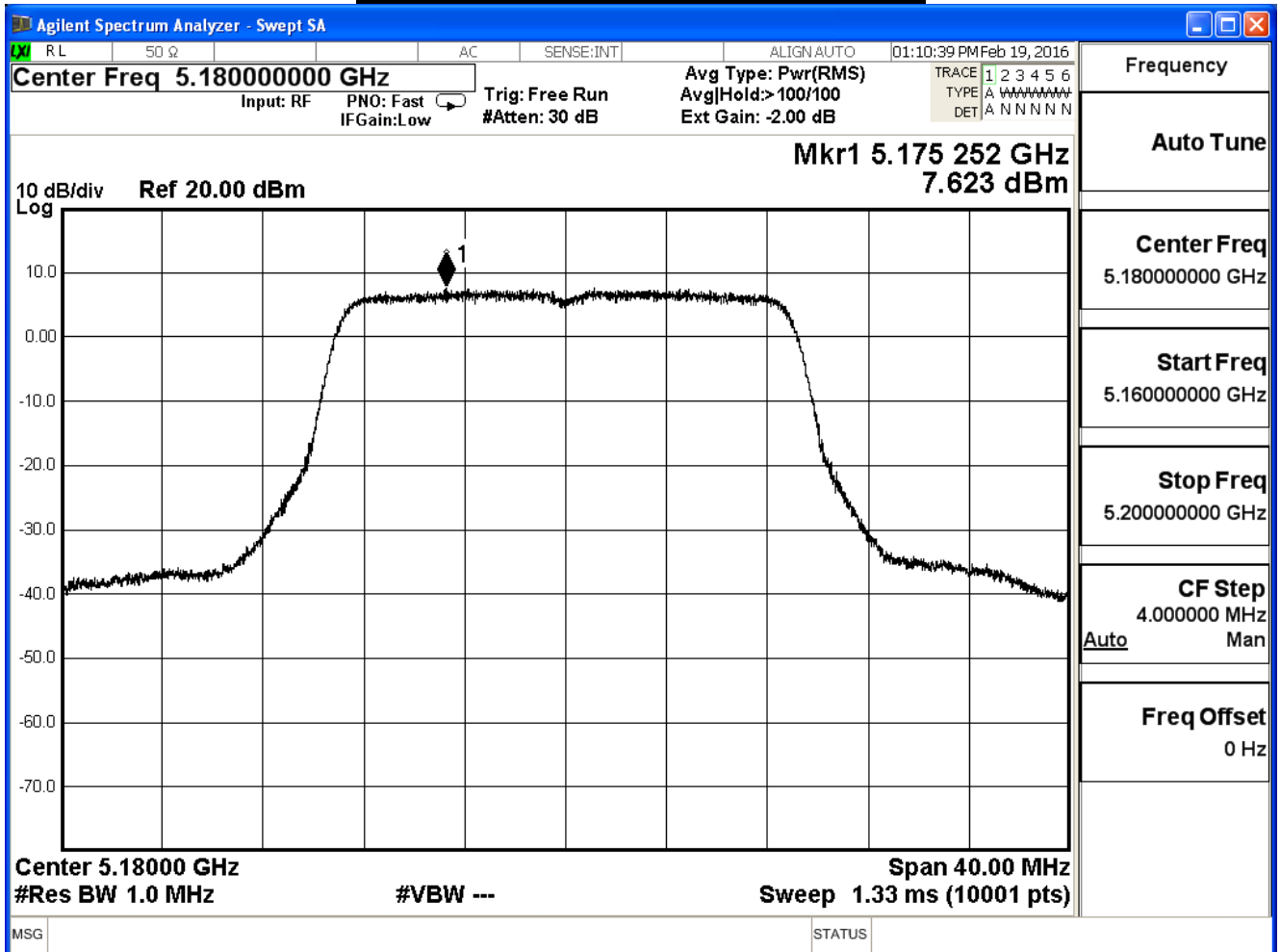
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/19	Test Site	SR7

IEEE 802.11n_20M (ANT 3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
36	5180	7.623	≤ 13.79	Pass
44	5220	7.701	≤ 13.79	Pass
48	5240	7.639	≤ 13.79	Pass

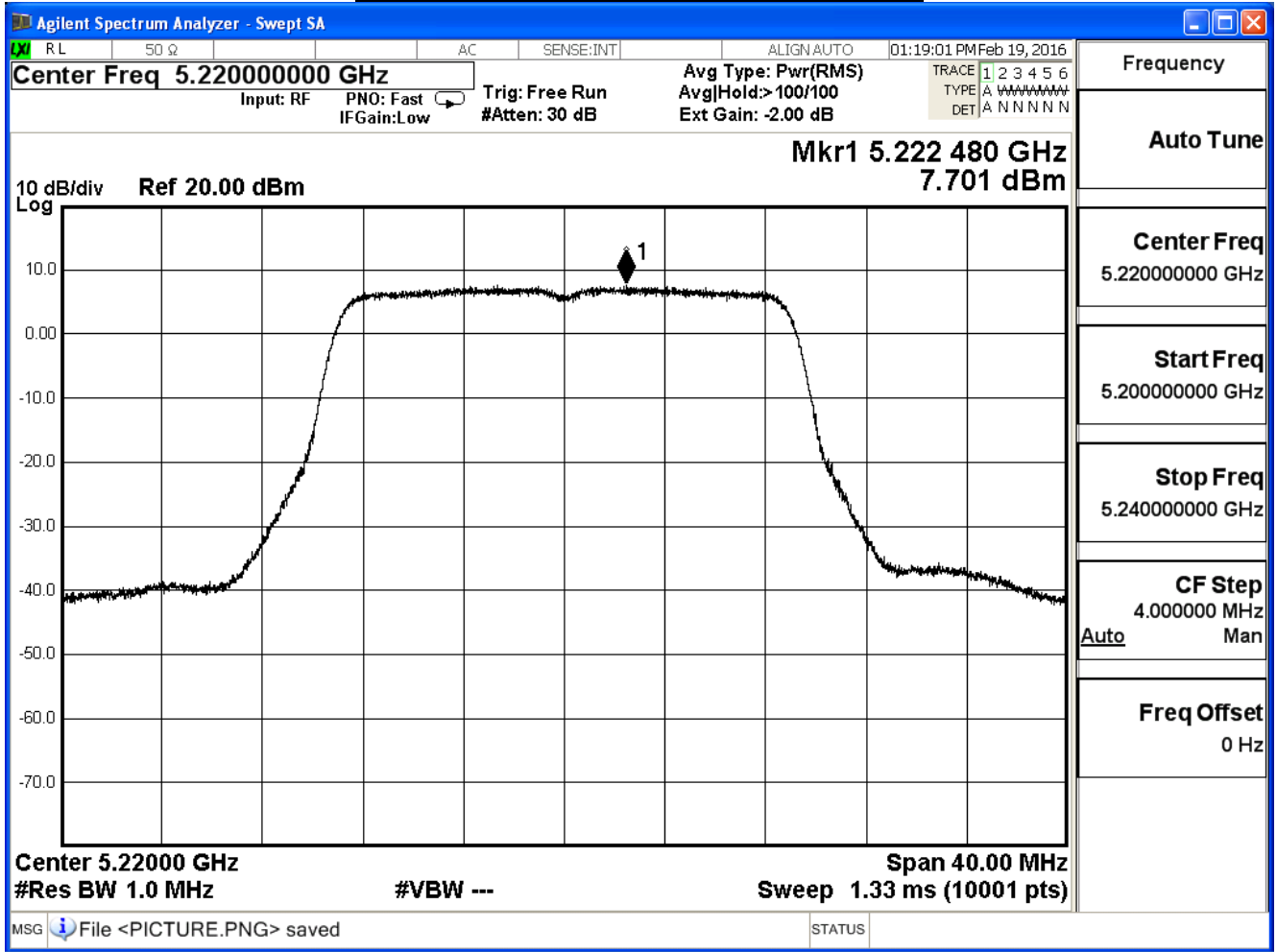
Directional Antenna: $10 \log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21 \text{dBi}$

Power Density Limit: $17 \text{dBm} - (9.21 \text{dBi} - 6 \text{dB}) = 13.79 \text{ dBm/MHz}$

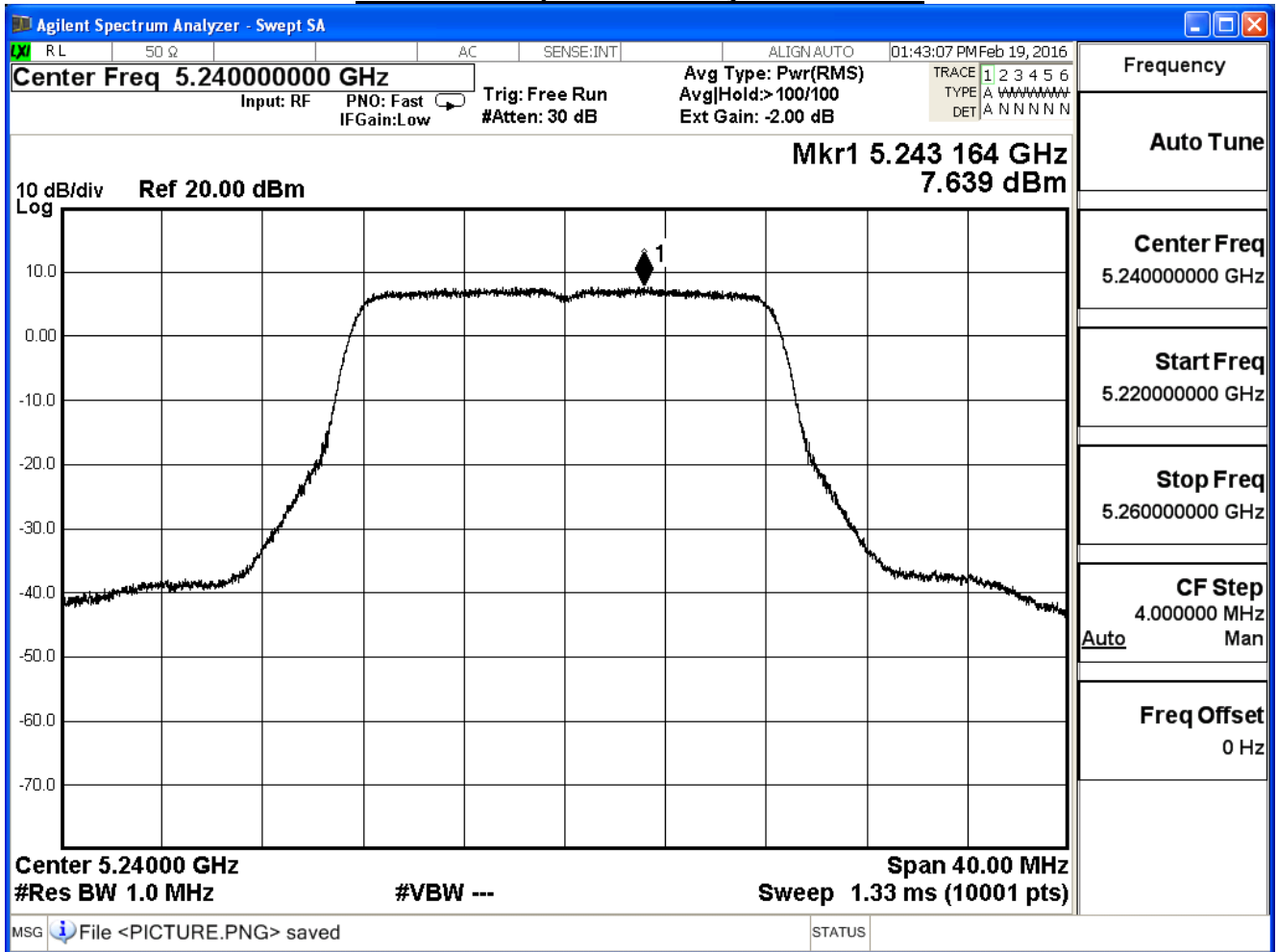
Peak Power Spectral Density – Channel 36



Peak Power Spectral Density – Channel 44



Peak Power Spectral Density – Channel 48



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit Beamforming Mode Adapter 1		
Date of Test	2016/02/19	Test Site	SR7

IEEE 802.11n_20M (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
36	5180	13.568	≤ 13.79	Pass
44	5220	13.566	≤ 13.79	Pass
48	5240	13.694	≤ 13.79	Pass

Directional Antenna: $10 \log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21 \text{dBi}$

Power Density Limit: $17 \text{dBm} - (9.21 \text{dBi} - 6 \text{dB}) = 13.79 \text{ dBm/MHz}$

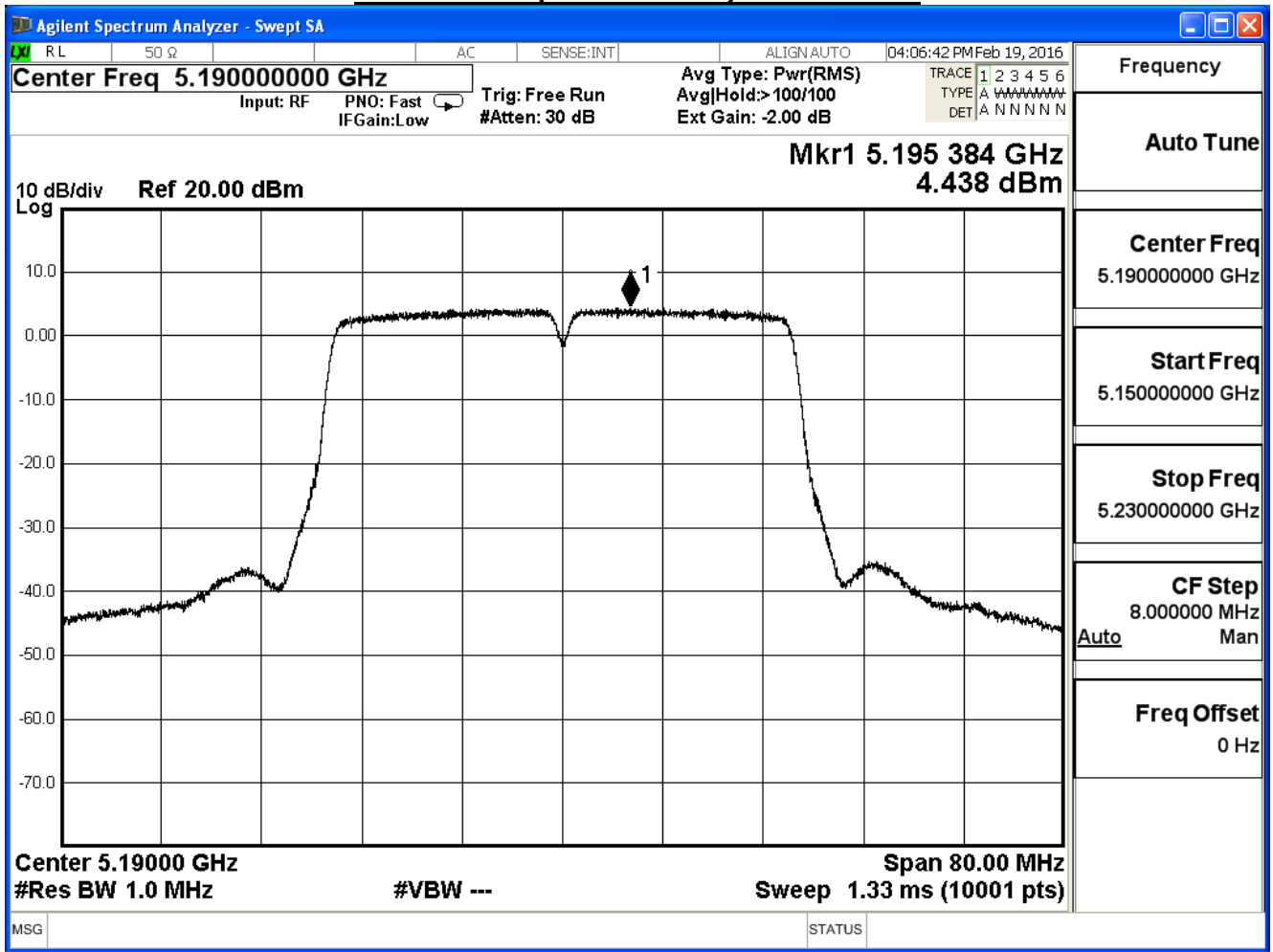
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/19	Test Site	SR7

IEEE 802.11n_40M(ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
38	5190	4.438	≤ 13.79
46	5230	6.191	≤ 13.79

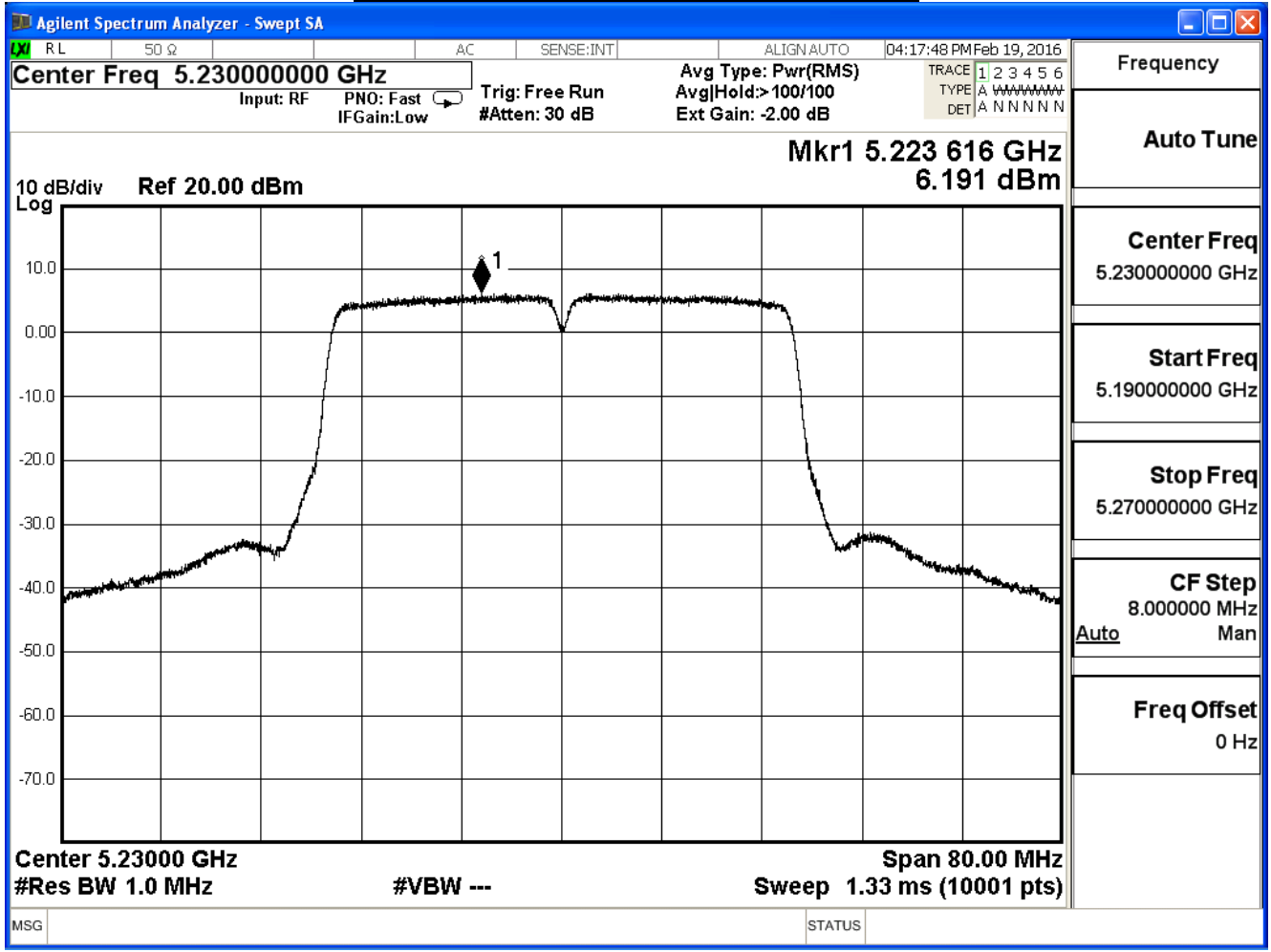
Directional Antenna: $10 \log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21 \text{dBi}$

Power Density Limit: $17 \text{dBm} - (9.21 \text{dBi} - 6 \text{dB}) = 13.79 \text{ dBm/MHz}$

Peak Power Spectral Density – Channel 38



Peak Power Spectral Density – Channel 46

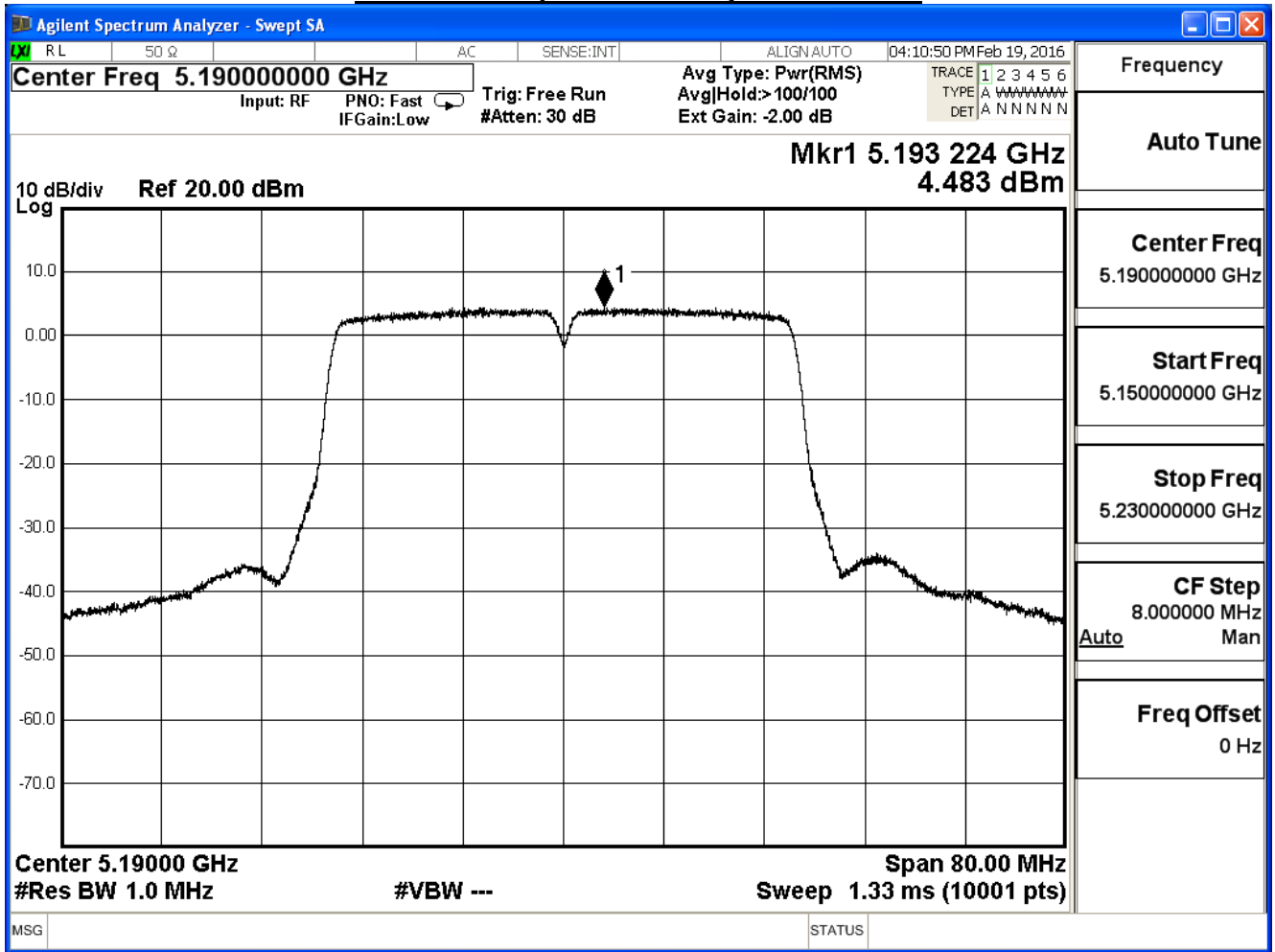


Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/19	Test Site	SR7

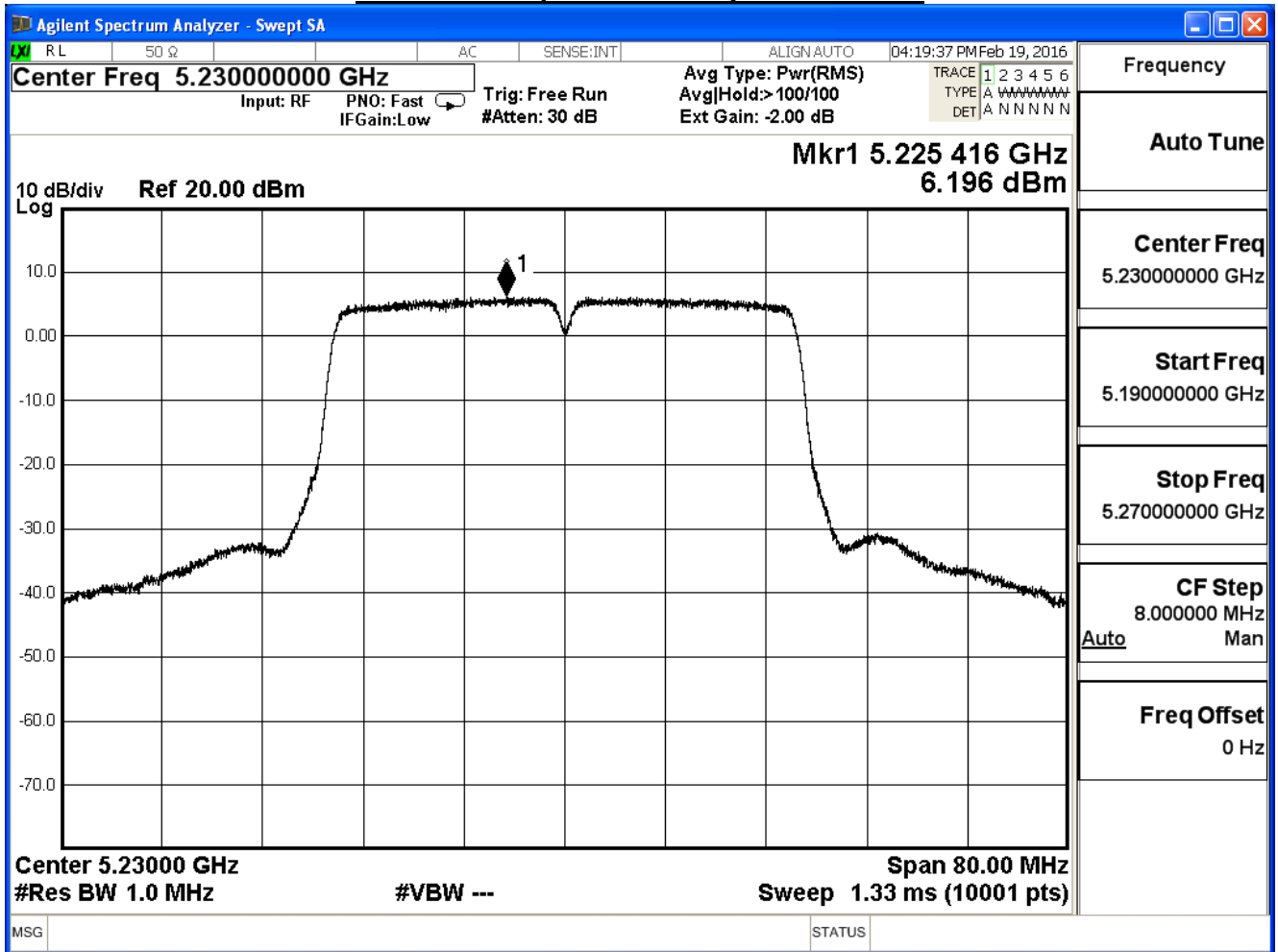
IEEE 802.11n_40M(ANT 1)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
38	5190	4.483	≤ 13.79	Pass
46	5230	6.196	≤ 13.79	Pass

Directional Antenna: $10 \log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21 \text{dBi}$
 Power Density Limit: $17 \text{dBm} - (9.21 \text{dBi} - 6 \text{dB}) = 13.79 \text{ dBm/MHz}$

Peak Power Spectral Density – Channel 38



Peak Power Spectral Density – Channel 46



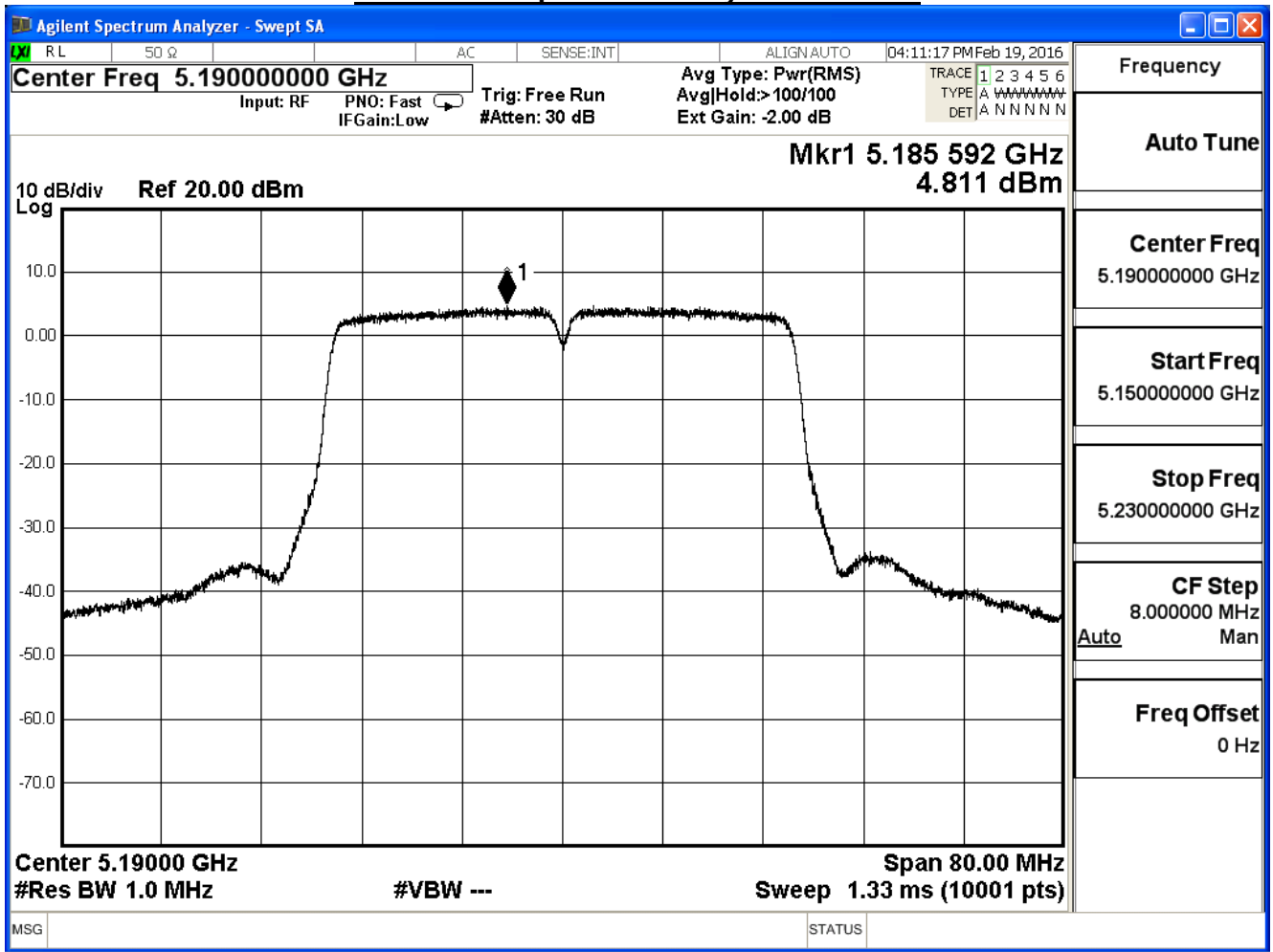
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/19	Test Site	SR7

IEEE 802.11n_40M(ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
38	5190	4.811	≤ 13.79	Pass
46	5230	6.364	≤ 13.79	Pass

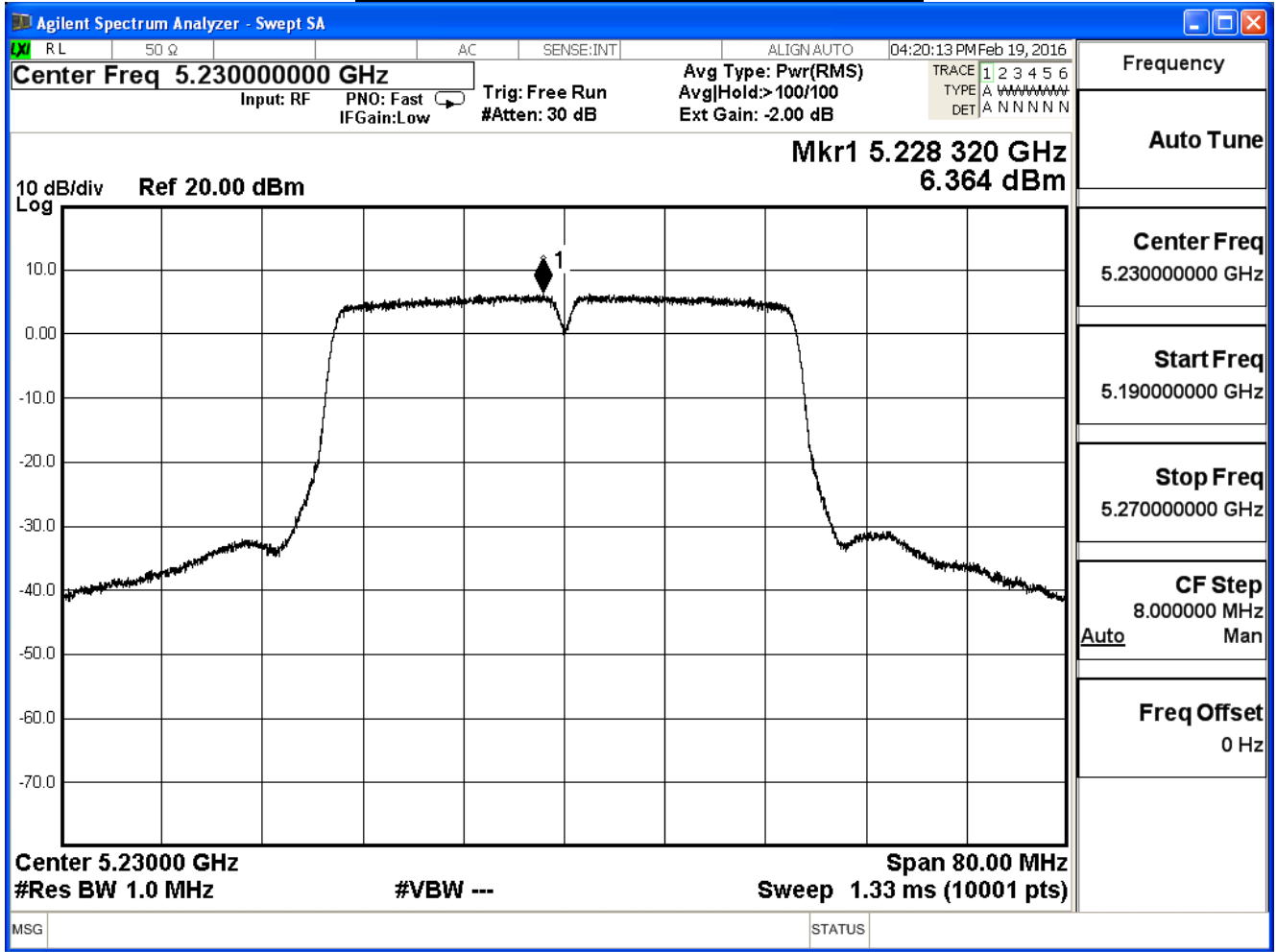
Directional Antenna: $10 \log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21 \text{dBi}$

Power Density Limit: $17 \text{dBm} - (9.21 \text{dBi} - 6 \text{dB}) = 13.79 \text{ dBm/MHz}$

Peak Power Spectral Density – Channel 38



Peak Power Spectral Density – Channel 46



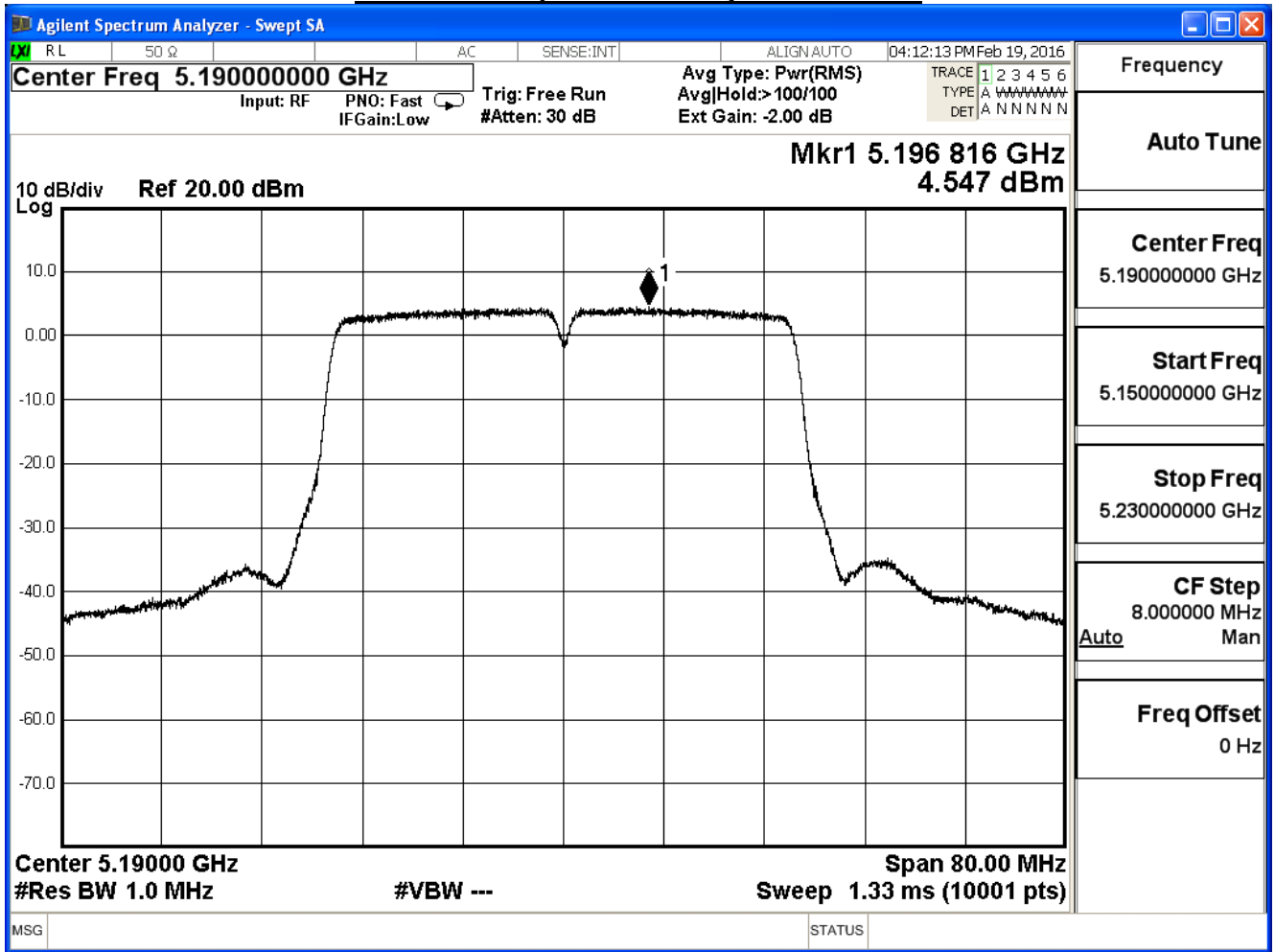
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/19	Test Site	SR7

IEEE 802.11n_40M(ANT 3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
38	5190	4.547	≤ 13.79	Pass
46	5230	6.099	≤ 13.79	Pass

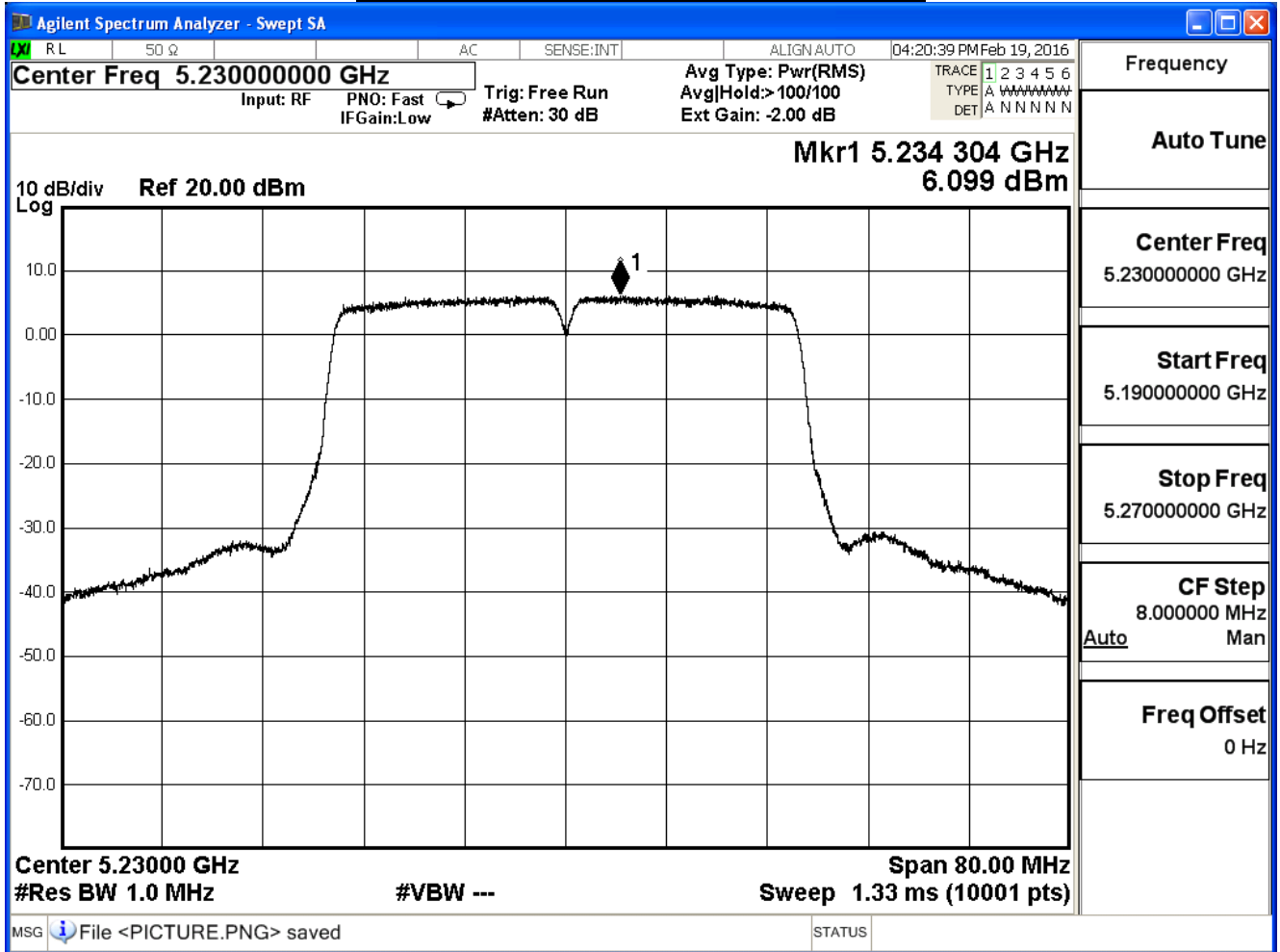
Directional Antenna: $10 \log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21 \text{dBi}$

Power Density Limit: $17 \text{dBm} - (9.21 \text{dBi} - 6 \text{dB}) = 13.79 \text{ dBm/MHz}$

Peak Power Spectral Density – Channel 38



Peak Power Spectral Density – Channel 46



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/19	Test Site	SR7

IEEE 802.11n_40M(ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
38	5190	10.593	≤ 13.79	Pass
46	5230	12.234	≤ 13.79	Pass

Directional Antenna: $10 \log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21 \text{dBi}$

Power Density Limit: $17 \text{dBm} - (9.21 \text{dBi} - 6 \text{dB}) = 13.79 \text{ dBm/MHz}$

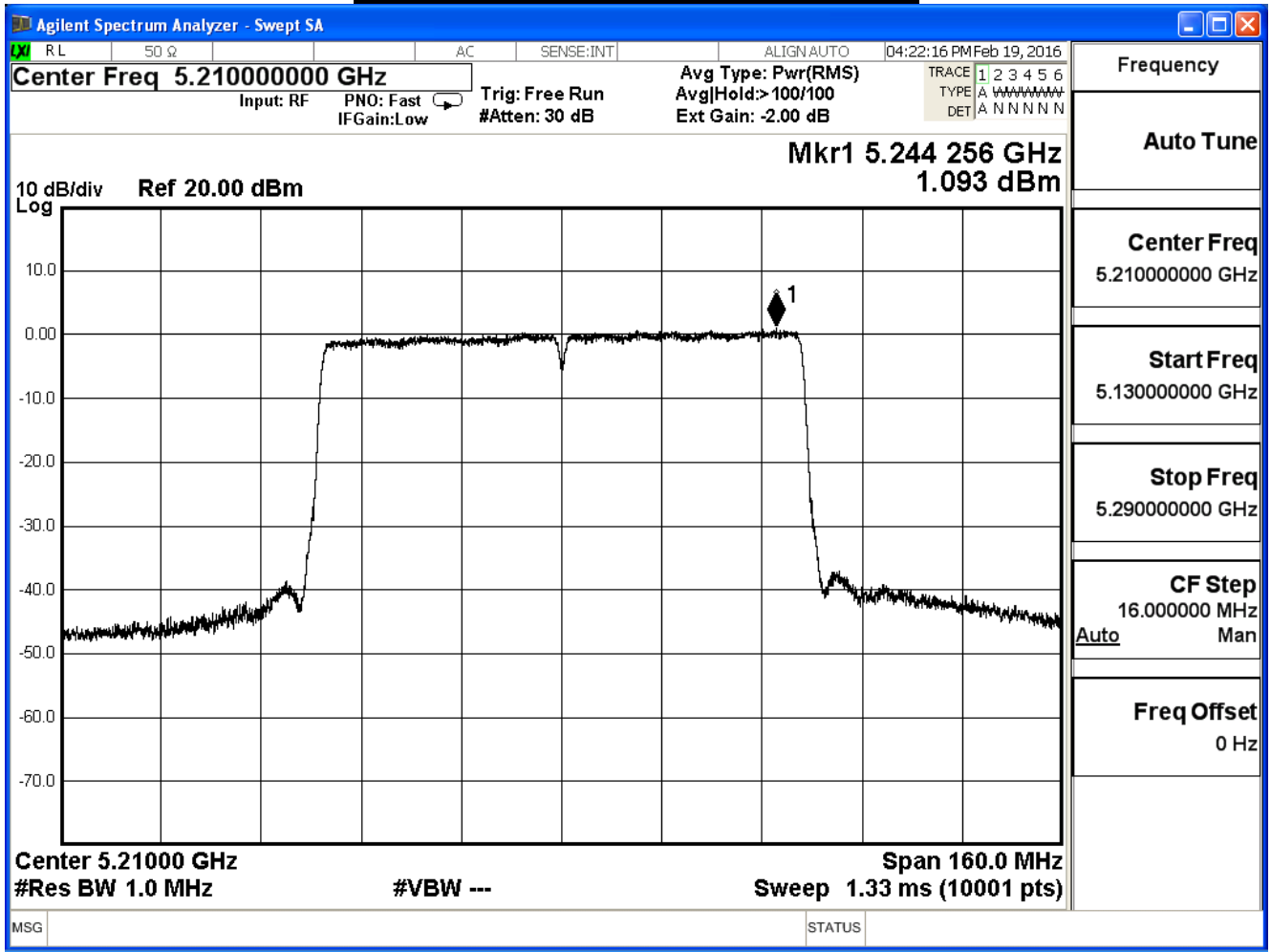
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/19	Test Site	SR7

IEEE 802.11ac_80M(ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
42	5210	1.093	≤ 13.79	Pass

Directional Antenna: $10 \log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21 \text{dBi}$

Power Density Limit: $17 \text{dBm} - (9.21 \text{dBi} - 6 \text{dB}) = 13.79 \text{ dBm/MHz}$

Peak Power Spectral Density – Channel 42



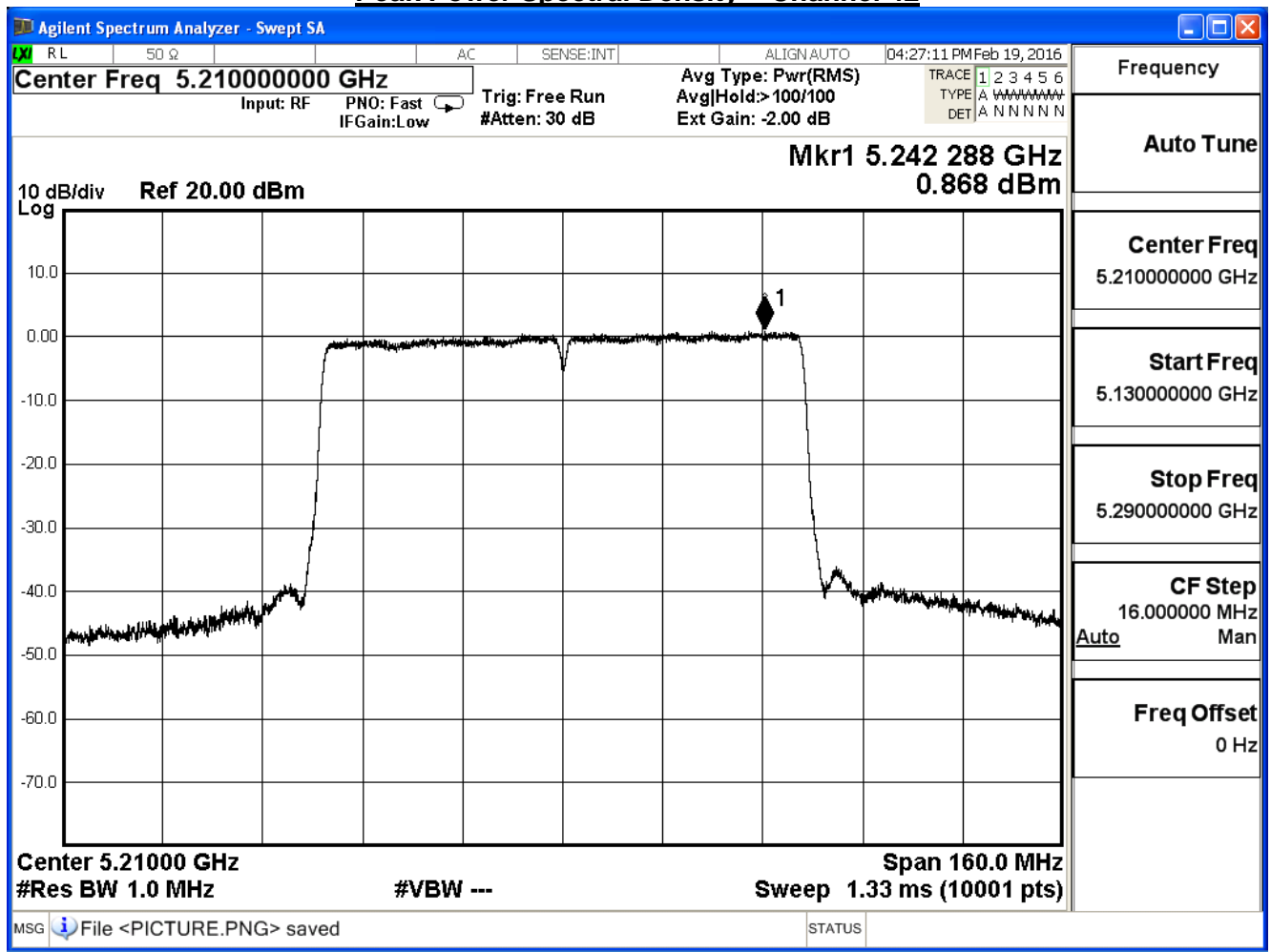
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/19	Test Site	SR7

IEEE 802.11ac_80M(ANT 1)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
42	5210	0.868	≤ 13.79	Pass

Directional Antenna: $10 \log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21 \text{dBi}$

Power Density Limit: $17 \text{dBm} - (9.21 \text{dBi} - 6 \text{dB}) = 13.79 \text{ dBm/MHz}$

Peak Power Spectral Density – Channel 42



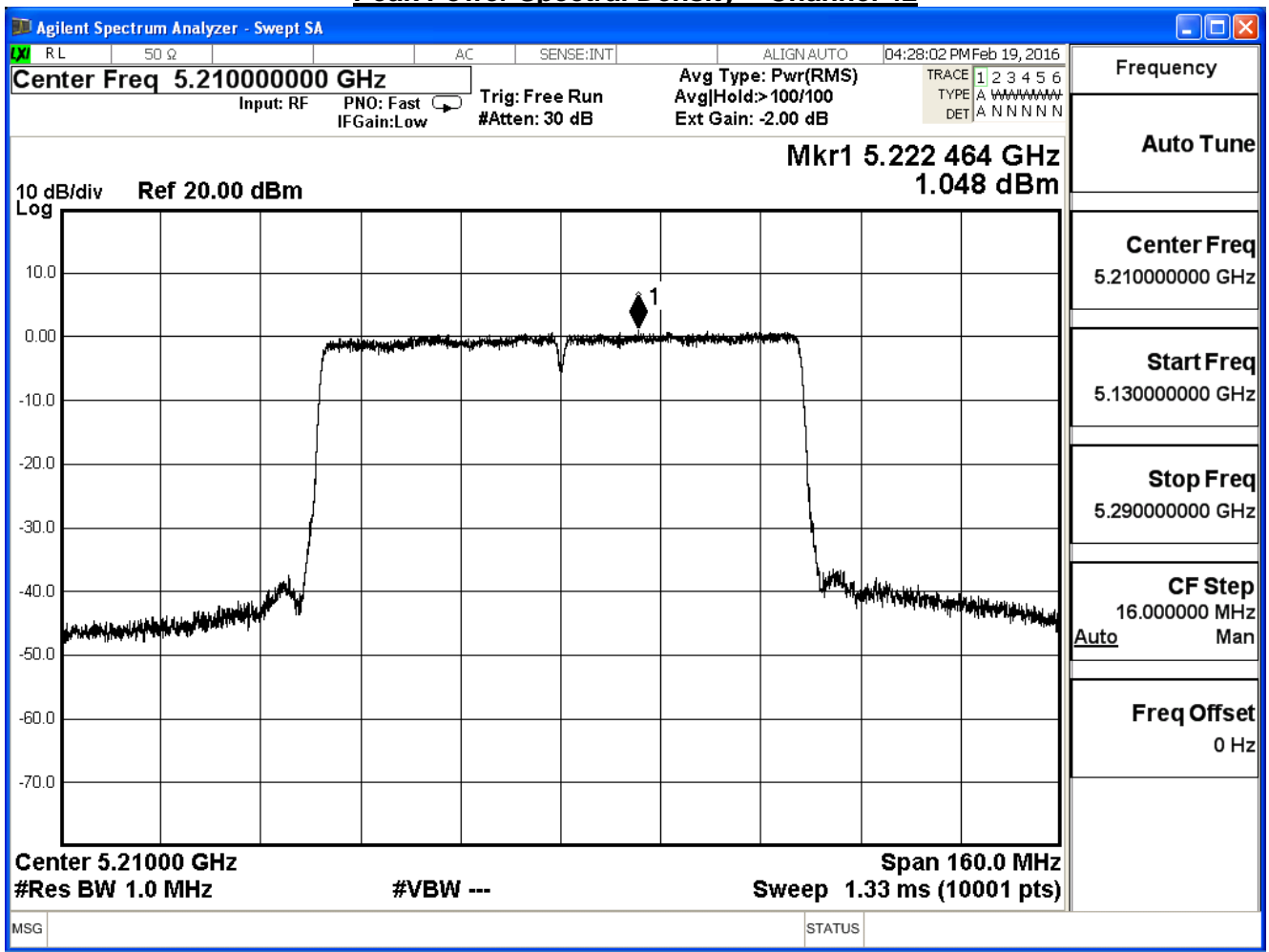
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/19	Test Site	SR7

IEEE 802.11ac_80M(ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
42	5210	1.048	≤ 13.79	Pass

Directional Antenna: $10 \log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21 \text{dBi}$

Power Density Limit: $17 \text{dBm} - (9.21 \text{dBi} - 6 \text{dB}) = 13.79 \text{ dBm/MHz}$

Peak Power Spectral Density – Channel 42



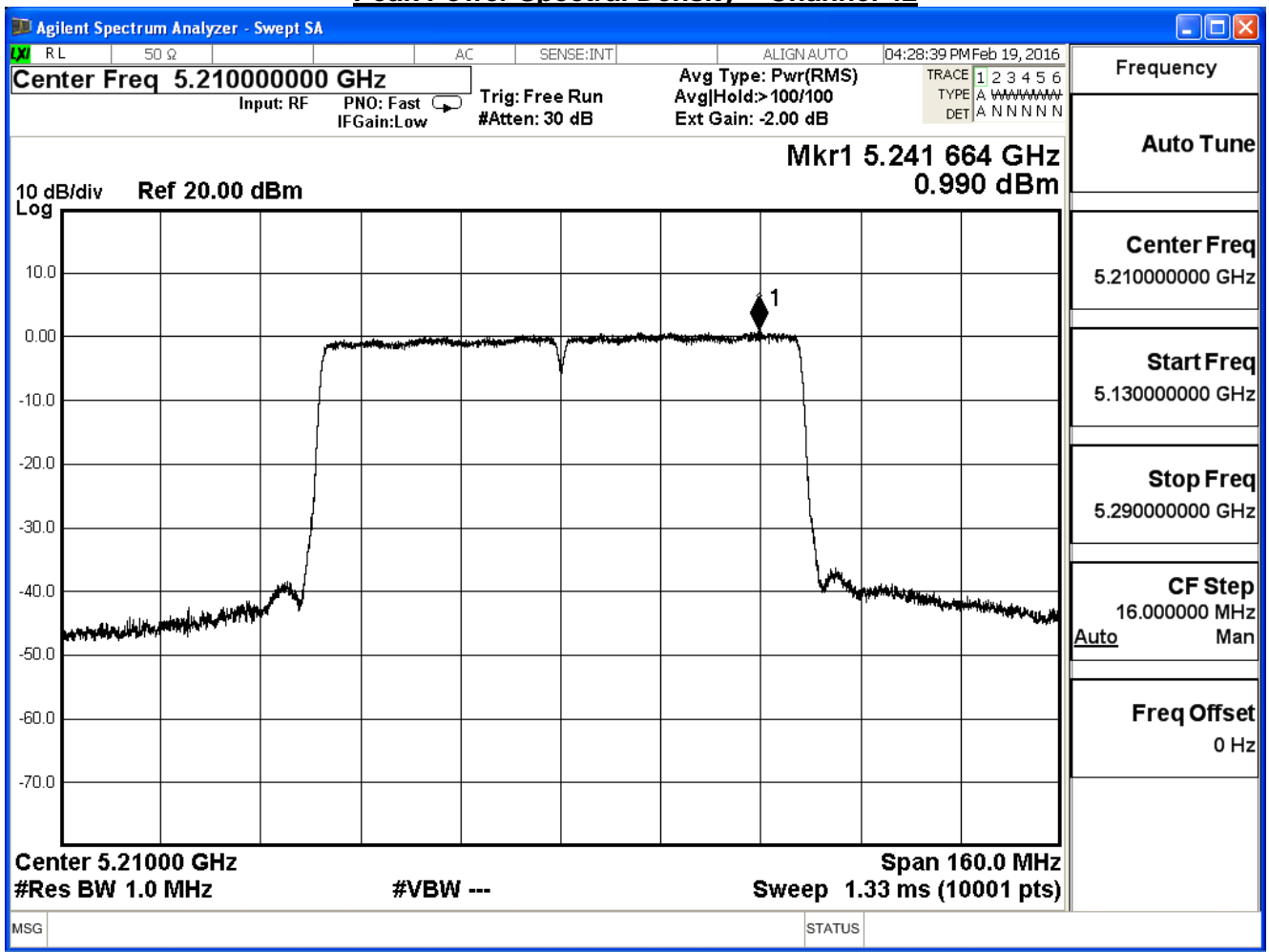
Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/19	Test Site	SR7

IEEE 802.11ac_80M(ANT 3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
42	5210	0.990	≤ 13.79	Pass

Directional Antenna: $10 \log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21 \text{dBi}$

Power Density Limit: $17 \text{dBm} - (9.21 \text{dBi} - 6 \text{dB}) = 13.79 \text{ dBm/MHz}$

Peak Power Spectral Density – Channel 42



Product	Wireless-AC2600 Dual WAN VPN Wireless Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit_Beamforming Mode_Adapter 1		
Date of Test	2016/02/19	Test Site	SR7

IEEE 802.11ac_80M(ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
42	5210	7.021	≤ 13.79	Pass

Directional Antenna: $10 \log(N) + \text{Ant Gain} = 6.02 + 3.19 = 9.21 \text{dBi}$

Power Density Limit: $17 \text{dBm} - (9.21 \text{dBi} - 6 \text{dB}) = 13.79 \text{ dBm/MHz}$

6. Radiated Emission

6.1. Test Equipment

The following test equipments are used during the radiated emission test:

Radiated Emission / CB1 (Under 1G)

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	Schaffner	CBL6112B	2895	2016/08/14
Double Ridged Guide Horn Antenna	Schwarzbeck	BBHA 9120	D743	2017/01/14
Pre-Amplifier	EMCI	EMC0031835	4583/10/13	2017/01/18
Pre-Amplifier	Quietek	AP-025C	CHM-0706049	2017/01/03
Spectrum Analyzer	Agilent	E4440A	MY46187335	2016/12/24
k Type Cable	Huber+Suhner	SF 102	25623/2	2017/01/11
Horn Antenna	Schwarzbeck	BBHA 9170	203	2016/09/07
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/05

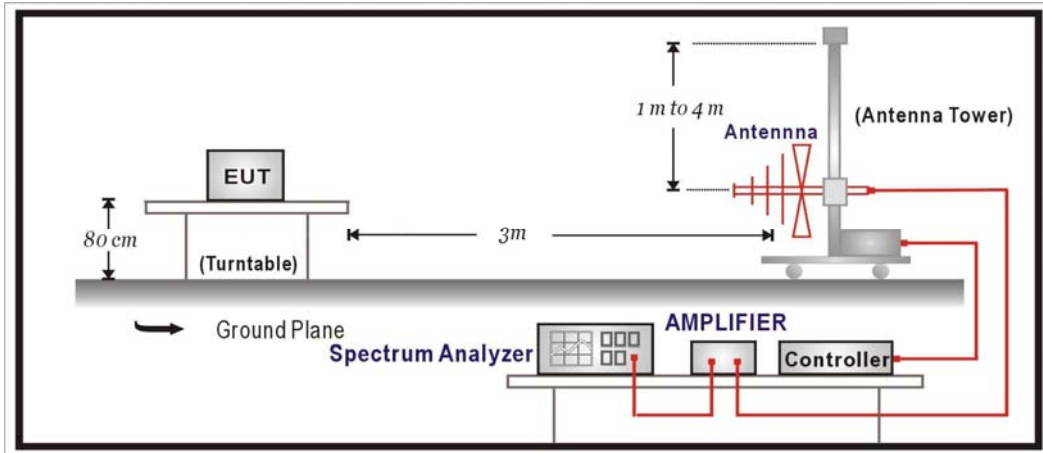
Radiated Emission / CB1 (Above 1G)

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895(CB1)	2016/08/14
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120	D743	2016/01/26
Pre-Amplifier	EMCI	EMC0031835	980233	2016/01/18
Pre-Amplifier	Quietek	AP-025C	CHM-0706049	2016/01/18
Spectrum Analyzer	Agilent	E4440A	MY46187335	2016/01/07
k Type Cable	Huber Suhner	SF 102	25623/2	2016/01/26

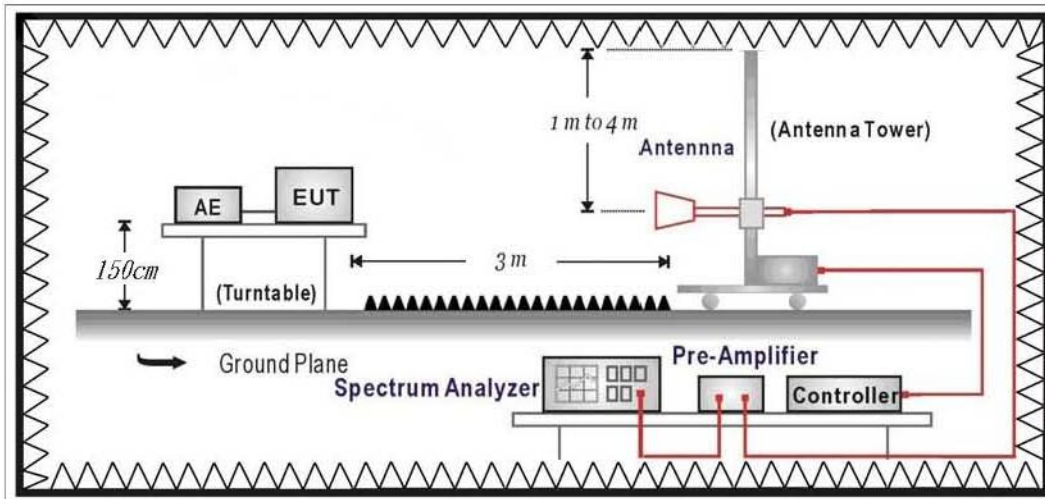
Note: All equipments that need to calibrate are with calibration period of 1 year.

6.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



6.3. Limits

➤ General Radiated Emission Limits

The provisions of Section 15.205 of this part apply to intentional radiators operating under this section. Radiated emissions which fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209:

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m @3m	dBuV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remark:

1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

➤ Unwanted Emission out of the restricted bands Limits

FCC Part 15 Subpart E Paragraph 15.407(b) Limits		
Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength (dBuV/m@3m)
5150~5250	-27	68.3
5250~5350	-27	68.3
5470~5725	-27	68.3
5725~5850	-27 (Note1)	68.3
	-17 (Note2)	78.3

Remark:

1. For frequencies more than 10 MHz above or below the band edges.
2. For frequency range from the band edges to 10 MHz above or below the band edges.
3. $uV/m = \frac{1000000\sqrt{30 \times EIRP}}{3}$, RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)

6.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 and 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated measurement.

The additional notch filter below 1GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 KHz, above 1GHz are 1 MHz.

The frequency range from 30MHz to 10th harmonics is checked.

6.5. Uncertainty

The measurement uncertainty

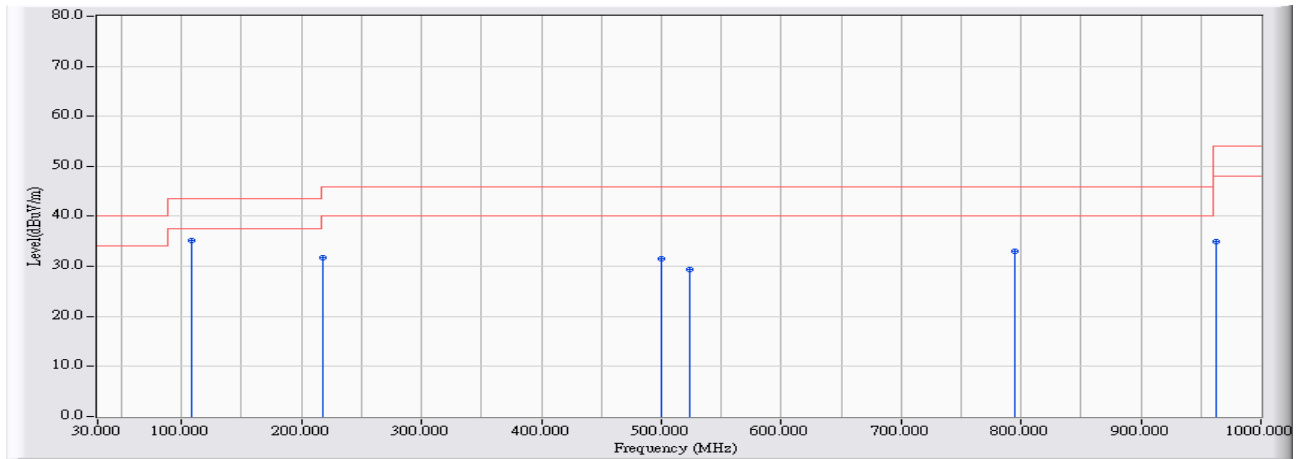
30MHz~1GHz as $\pm 3.43\text{dB}$

1GHz~26.5GHz as $\pm 3.65\text{dB}$

6.6. Test Result

30MHz-1GHz Spurious

Site : CB1	Time : 2016/02/04 - 19:04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_CDD Mode_Adapter 1 802.11a_5220MHz

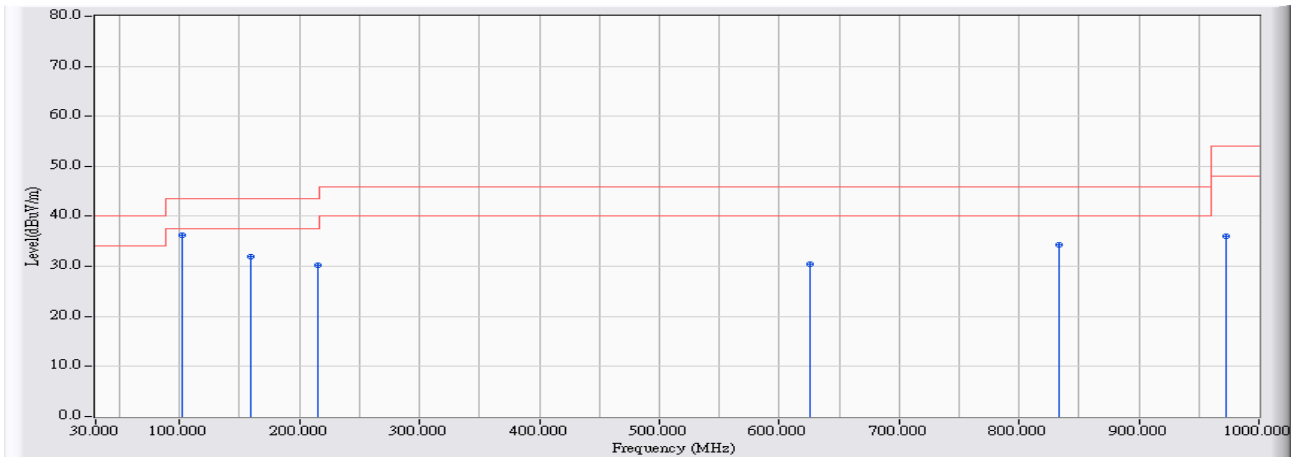


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	108.756	12.565	22.696	35.262	-8.238	43.500	QUASPEAK
2		217.288	12.283	19.391	31.674	-14.326	46.000	QUASPEAK
3		500.015	17.755	13.737	31.492	-14.508	46.000	QUASPEAK
4		523.293	18.207	11.282	29.489	-16.511	46.000	QUASPEAK
5		795.253	22.264	10.747	33.011	-12.989	46.000	QUASPEAK
6		962.174	24.048	11.001	35.048	-18.952	54.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/04 - 19:05
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_CDD Mode_Adapter 1 802.11a_5220MHz

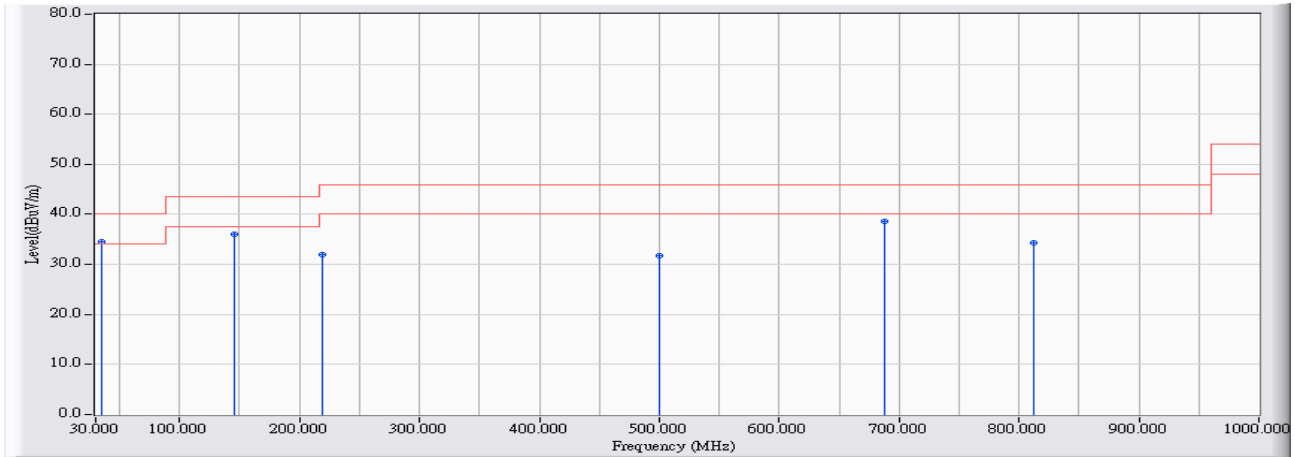


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	101.870	12.540	23.692	36.232	-7.268	43.500	QUASIPeAK
2		159.676	17.970	14.012	31.982	-11.518	43.500	QUASIPeAK
3		214.864	12.315	17.909	30.224	-13.276	43.500	QUASIPeAK
4		625.617	20.051	10.464	30.516	-15.484	46.000	QUASIPeAK
5		832.886	22.695	11.550	34.245	-11.755	46.000	QUASIPeAK
6		972.552	24.146	11.976	36.122	-17.878	54.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2016/02/04 - 19:06
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_CDD Mode_Adapter 1 802.11n(20M)_5220MHz

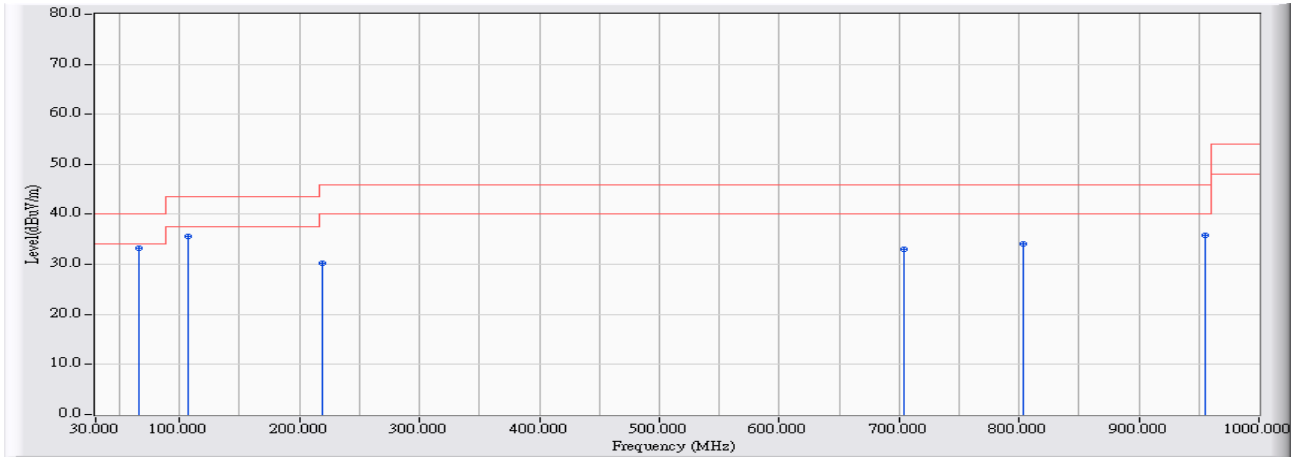


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	34.656	11.863	22.704	34.567	-5.433	40.000	QUASPEAK
2		145.224	16.959	19.069	36.028	-7.472	43.500	QUASPEAK
3		219.034	12.259	19.592	31.851	-14.149	46.000	QUASPEAK
4		500.015	17.755	14.094	31.849	-14.151	46.000	QUASPEAK
5		687.982	20.899	17.804	38.703	-7.297	46.000	QUASPEAK
6		811.839	22.457	11.910	34.368	-11.632	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/04 - 19:08
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_CDD Mode_Adapter 1 802.11n(20M)_5220MHz

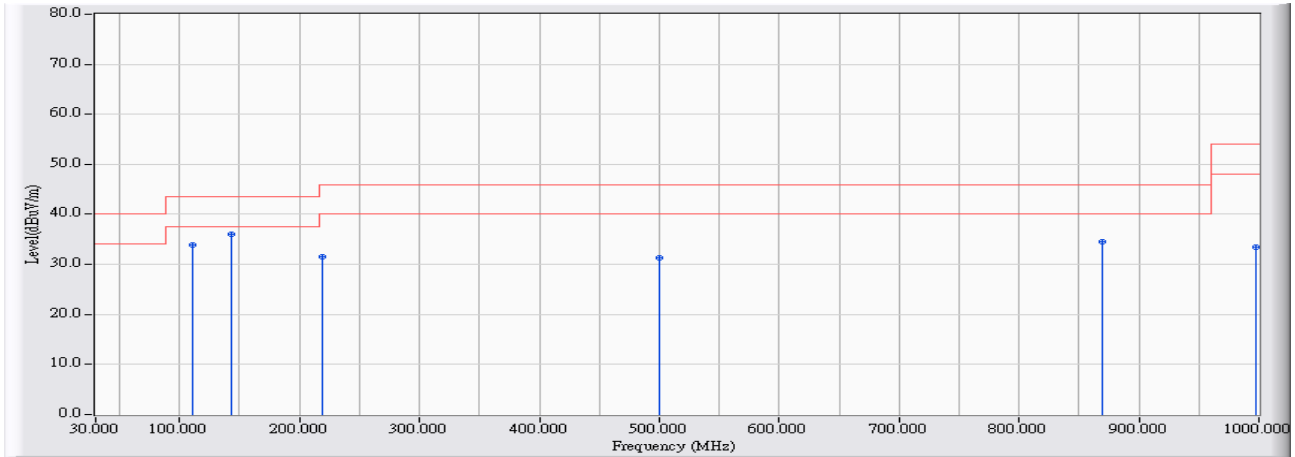


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	66.177	9.271	23.942	33.214	-6.786	40.000	QUASPEAK
2		106.719	12.558	23.085	35.643	-7.857	43.500	QUASPEAK
3		218.549	12.266	17.954	30.220	-15.780	46.000	QUASPEAK
4		704.180	21.115	11.981	33.096	-12.904	46.000	QUASPEAK
5		803.789	22.366	11.629	33.996	-12.004	46.000	QUASPEAK
6		955.481	23.983	11.838	35.821	-10.179	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/04 - 19:25
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_CDD Mode_Adapter 1 802.11n(40M)_5230MHz

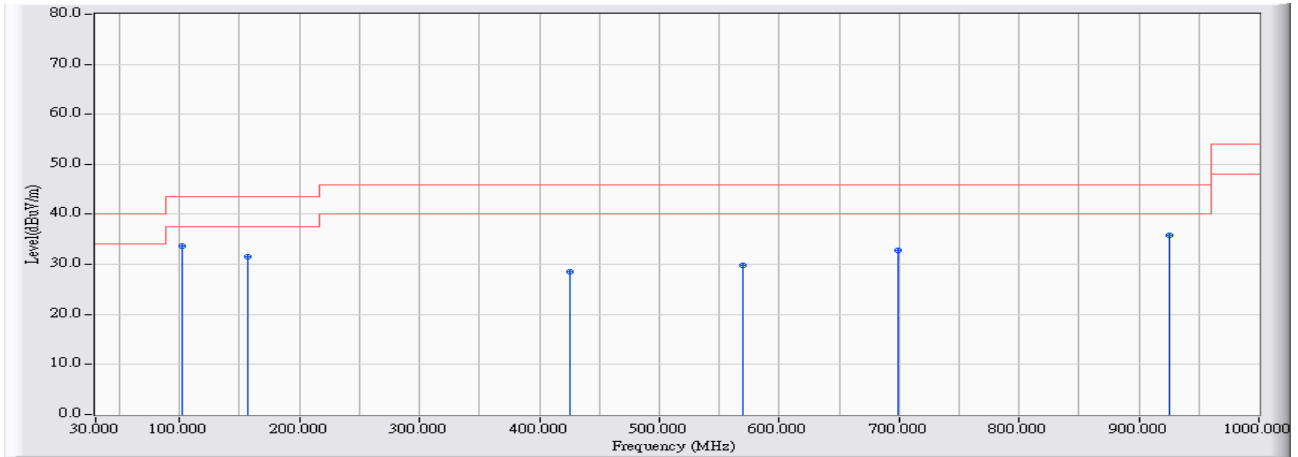


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	110.696	12.609	21.276	33.884	-9.616	43.500	QUASPEAK
2	* 143.285	16.626	19.456	36.082	-7.418	43.500	QUASPEAK
3	218.452	12.267	19.332	31.599	-14.401	46.000	QUASPEAK
4	500.015	17.755	13.580	31.335	-14.665	46.000	QUASPEAK
5	869.257	23.105	11.521	34.626	-11.374	46.000	QUASPEAK
6	996.896	24.379	8.987	33.366	-20.634	54.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/04 - 19:26
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_CDD Mode_Adapter 1 802.11n(40M)_5230MHz

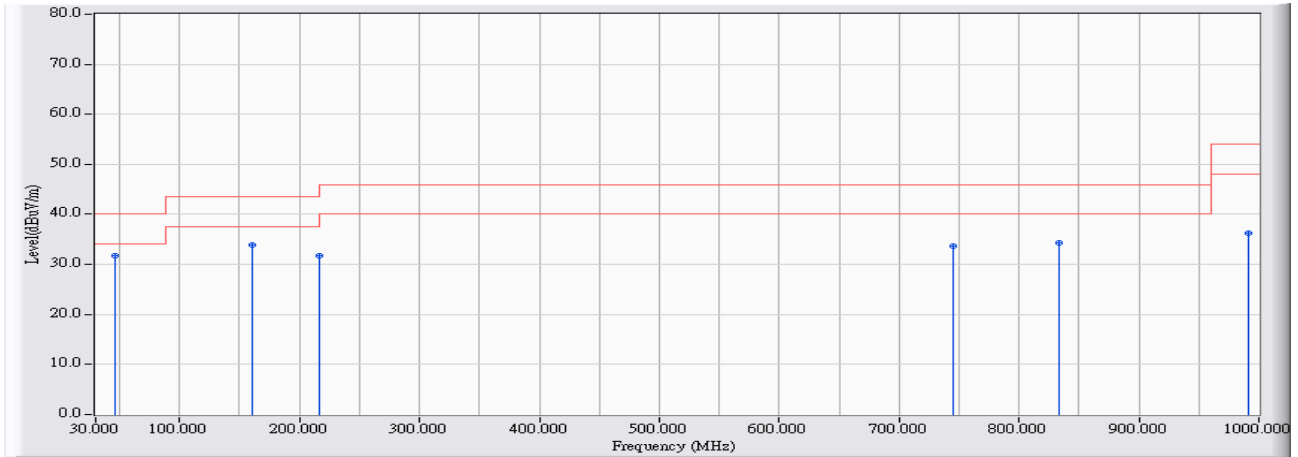


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	101.870	12.540	21.112	33.652	-9.848	43.500	QUASPEAK
2		156.960	17.916	13.656	31.572	-11.928	43.500	QUASPEAK
3		425.332	16.567	12.016	28.583	-17.417	46.000	QUASPEAK
4		569.557	19.110	10.803	29.913	-16.087	46.000	QUASPEAK
5		698.942	21.048	11.723	32.771	-13.229	46.000	QUASPEAK
6		925.511	23.697	12.208	35.904	-10.096	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/04 - 19:29
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_CDD Mode_Adapter 1 802.11ac(80M)_5210MHz

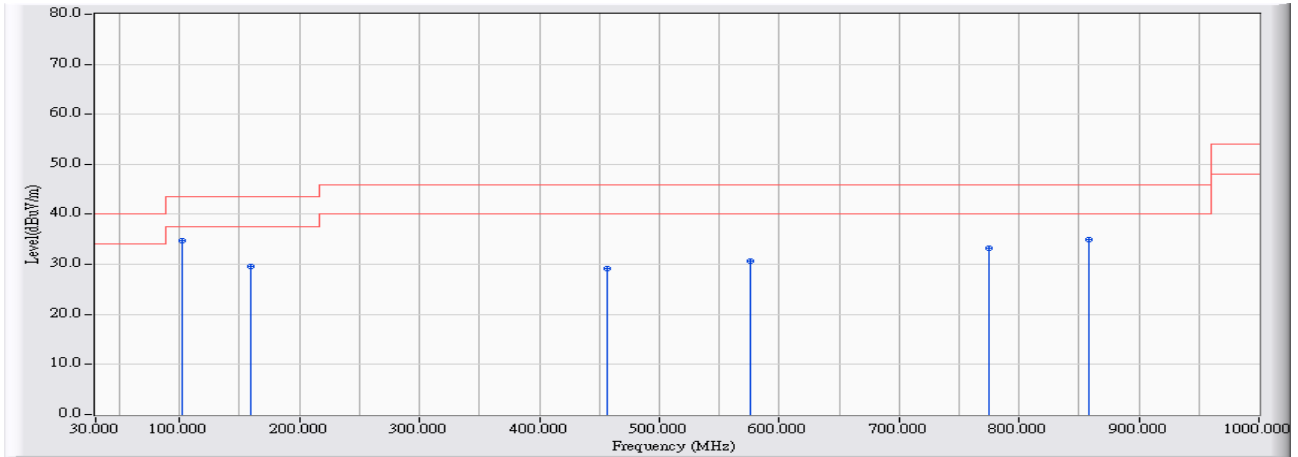


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	45.712	11.953	19.883	31.836	-8.164	40.000	QUASPEAK
2		161.131	17.759	16.166	33.925	-9.575	43.500	QUASPEAK
3		216.318	12.296	19.362	31.658	-14.342	46.000	QUASPEAK
4		744.819	21.628	12.020	33.648	-12.352	46.000	QUASPEAK
5		833.662	22.704	11.717	34.421	-11.579	46.000	QUASPEAK
6		991.853	24.331	11.854	36.185	-17.815	54.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/04 - 19:31
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_CDD Mode_Adapter 1 802.11ac(80M)_5210MHz

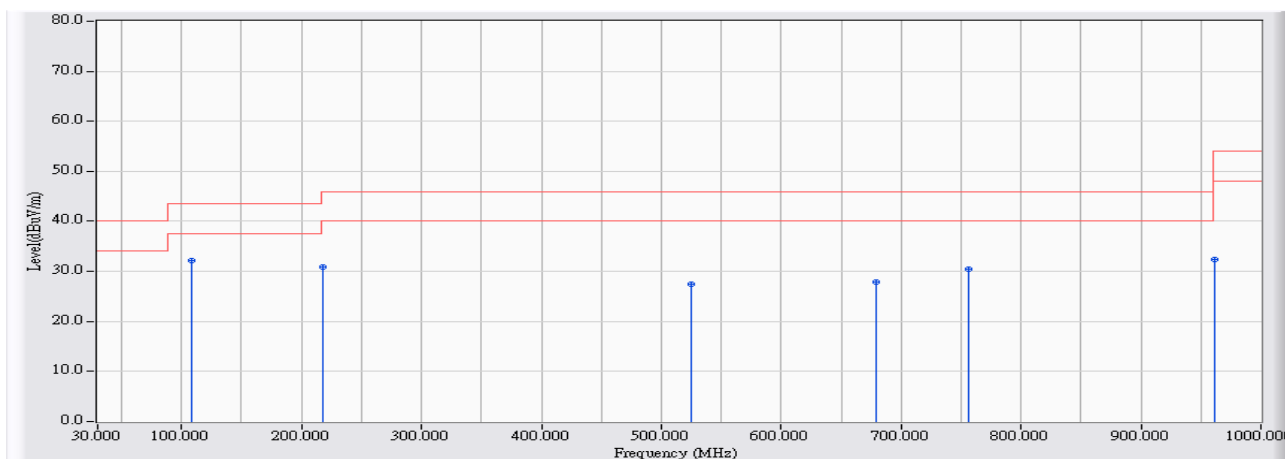


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	101.870	12.540	22.137	34.677	-8.823	43.500	QUASPEAK
2		159.579	17.968	11.593	29.561	-13.939	43.500	QUASPEAK
3		456.660	17.234	11.947	29.180	-16.820	46.000	QUASPEAK
4		575.861	19.232	11.392	30.624	-15.376	46.000	QUASPEAK
5		775.176	22.011	11.318	33.329	-12.671	46.000	QUASPEAK
6		857.618	22.974	11.992	34.966	-11.034	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/15 - 10:35
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 3: Transmit_Adapter 2 802.11a_5220MHz

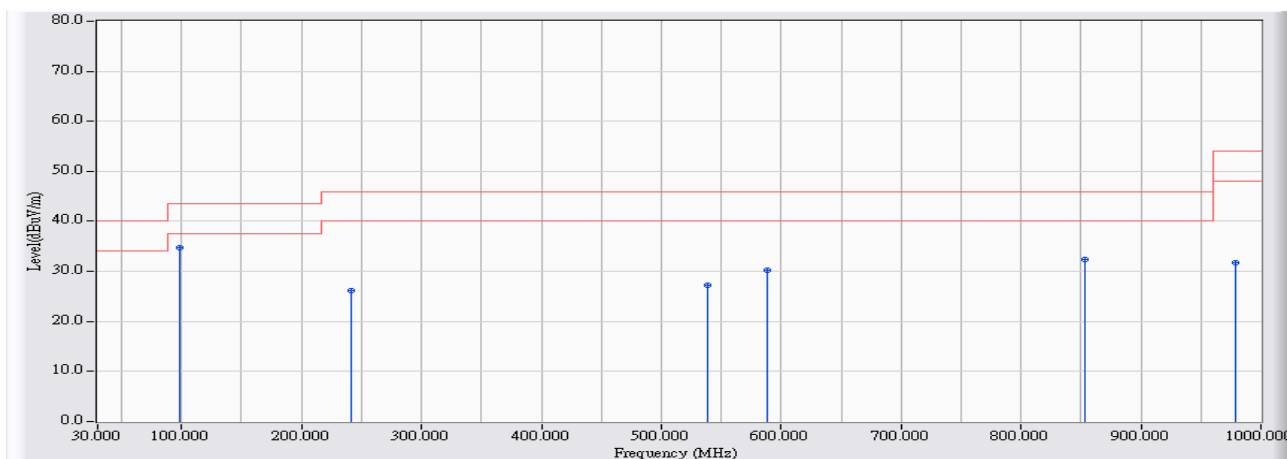


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	108.756	12.565	19.537	32.103	-11.397	43.500	QUASPEAK
2		217.191	12.284	18.657	30.941	-15.059	46.000	QUASPEAK
3		525.329	18.247	9.192	27.439	-18.561	46.000	QUASPEAK
4		679.447	20.783	7.174	27.957	-18.043	46.000	QUASPEAK
5		755.875	21.767	8.788	30.555	-15.445	46.000	QUASPEAK
6		961.786	24.043	8.422	32.465	-21.535	54.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/15 - 10:37
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 3: Transmit_Adapter 2 802.11a_5220MHz

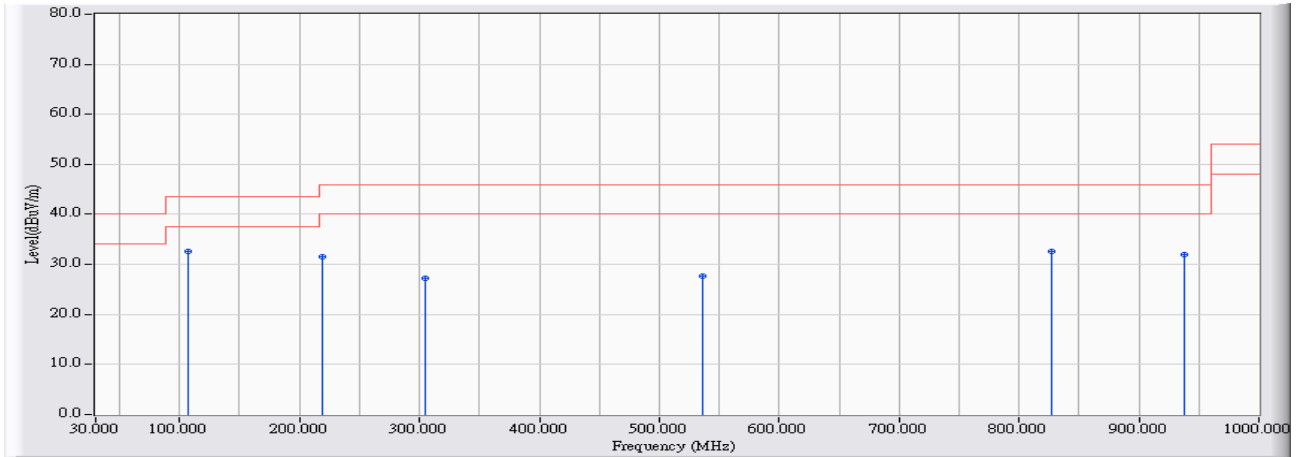


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	98.475	12.402	22.278	34.681	-8.819	43.500	QUASPEAK
2		241.827	12.082	14.098	26.180	-19.820	46.000	QUASPEAK
3		538.326	18.500	8.813	27.313	-18.687	46.000	QUASPEAK
4		588.276	19.475	10.737	30.212	-15.788	46.000	QUASPEAK
5		852.866	22.921	9.541	32.461	-13.539	46.000	QUASPEAK
6		978.371	24.202	7.557	31.759	-22.241	54.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/15 - 10:40
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 3: Transmit_Adapter 2 802.11n(20M)_5220MHz

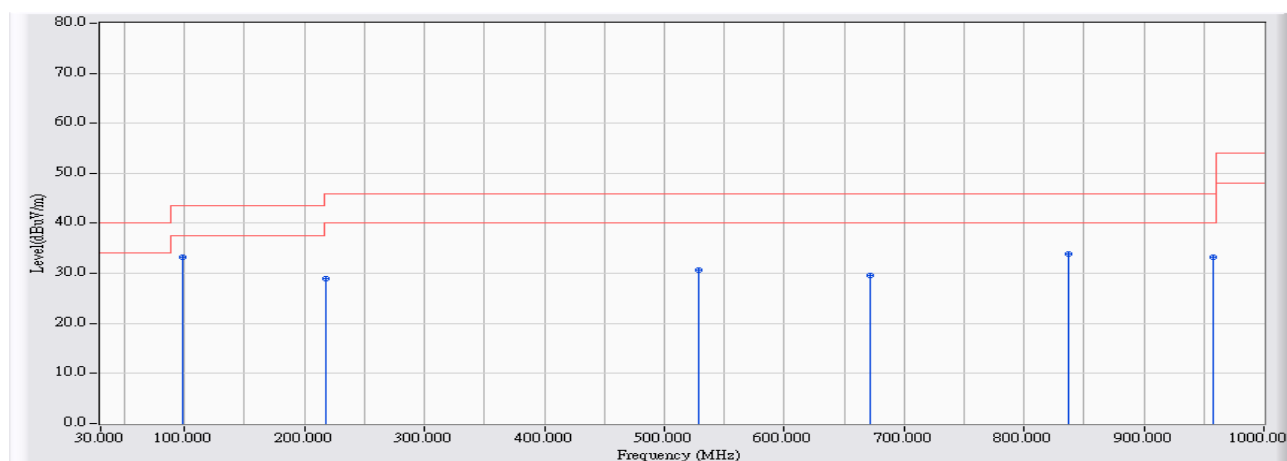


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	106.719	12.558	20.064	32.622	-10.878	43.500	QUASPEAK
2		218.549	12.266	19.368	31.634	-14.366	46.000	QUASPEAK
3		305.064	13.797	13.526	27.323	-18.677	46.000	QUASPEAK
4		535.804	18.451	9.121	27.572	-18.428	46.000	QUASPEAK
5		827.357	22.632	9.880	32.513	-13.487	46.000	QUASPEAK
6		937.441	23.810	8.105	31.915	-14.085	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/15 - 10:45
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 3: Transmit_Adapter 2 802.11n(20M)_5220MHz

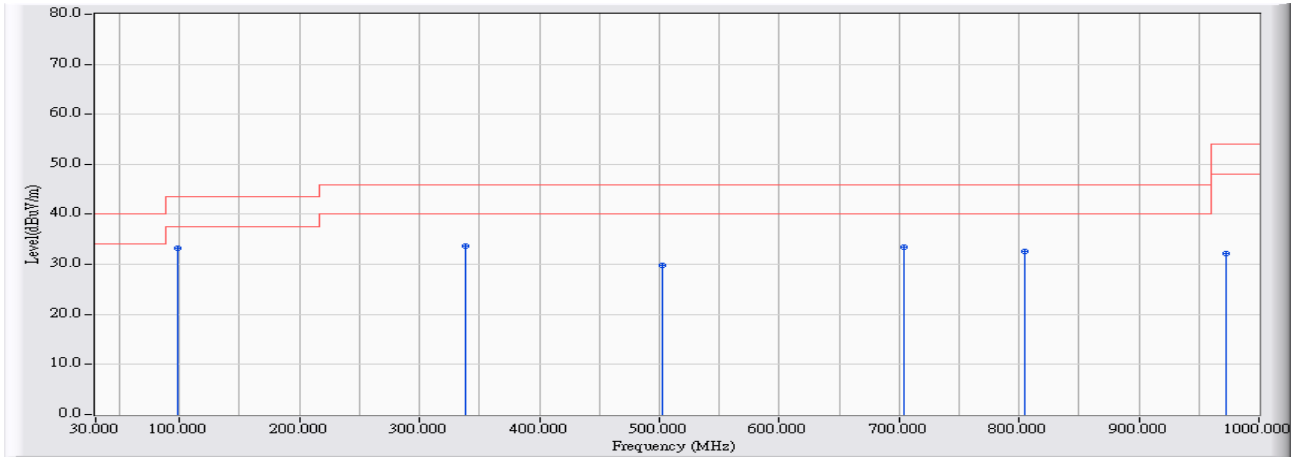


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	98.475	12.402	20.793	33.196	-10.304	43.500	QUASPEAK
2		218.161	12.271	16.772	29.043	-16.957	46.000	QUASPEAK
3		528.336	18.305	12.437	30.742	-15.258	46.000	QUASPEAK
4		671.979	20.682	8.847	29.529	-16.471	46.000	QUASPEAK
5		836.959	22.741	11.183	33.924	-12.076	46.000	QUASPEAK
6		957.518	24.003	9.298	33.301	-12.699	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/15 - 10:49
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 3: Transmit_Adapter 2 802.11n(40M)_5230MHz

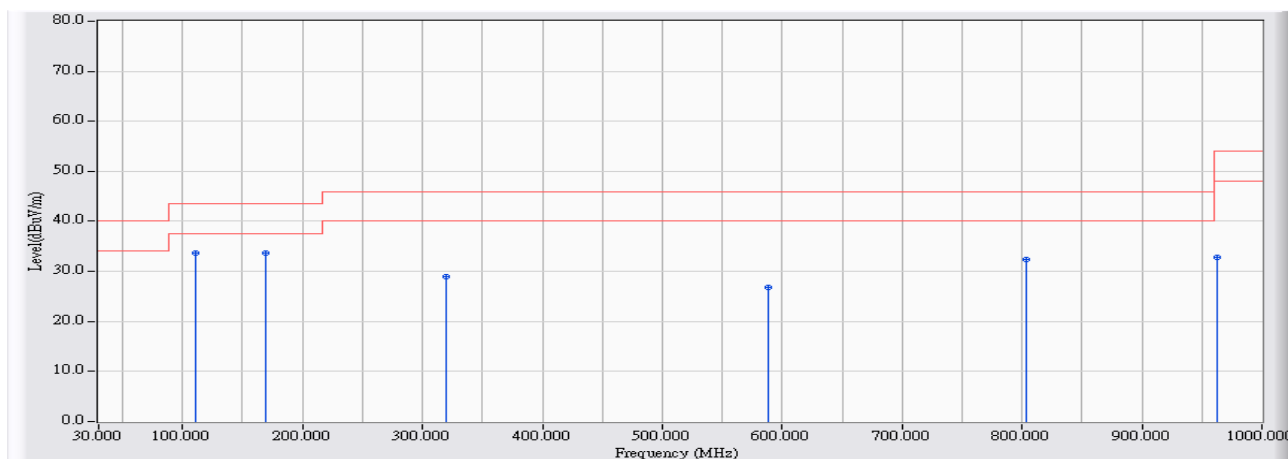


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	98.378	12.394	20.824	33.218	-10.282	43.500	QUASPEAK
2		338.817	14.564	19.037	33.601	-12.399	46.000	QUASPEAK
3		501.955	17.791	12.040	29.831	-16.169	46.000	QUASPEAK
4		704.374	21.118	12.320	33.438	-12.562	46.000	QUASPEAK
5		804.177	22.371	10.322	32.693	-13.307	46.000	QUASPEAK
6		972.358	24.144	7.987	32.132	-21.868	54.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/15 - 10:50
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 3: Transmit_Adapter 2 802.11n(40M)_5230MHz

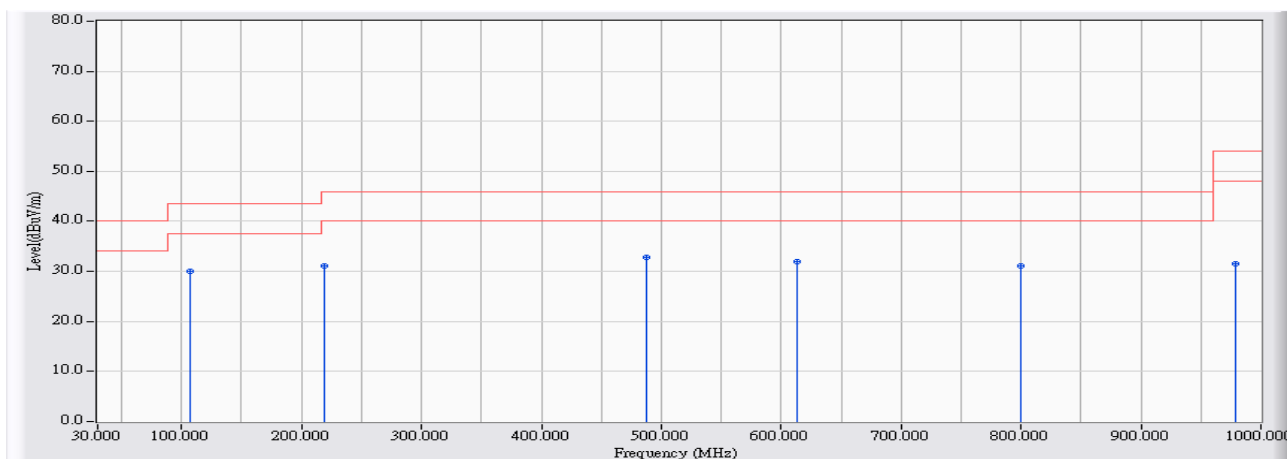


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	110.696	12.609	21.024	33.632	-9.868	43.500	QUASPEAK
2	* 168.793	16.285	17.477	33.763	-9.737	43.500	QUASPEAK
3	319.904	14.134	14.862	28.996	-17.004	46.000	QUASPEAK
4	588.761	19.484	7.400	26.884	-19.116	46.000	QUASPEAK
5	803.983	22.369	10.003	32.372	-13.628	46.000	QUASPEAK
6	962.950	24.055	8.712	32.767	-21.233	54.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/15 - 10:53
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 3: Transmit_Adapter 2 802.11ac(80M)_5210MHz

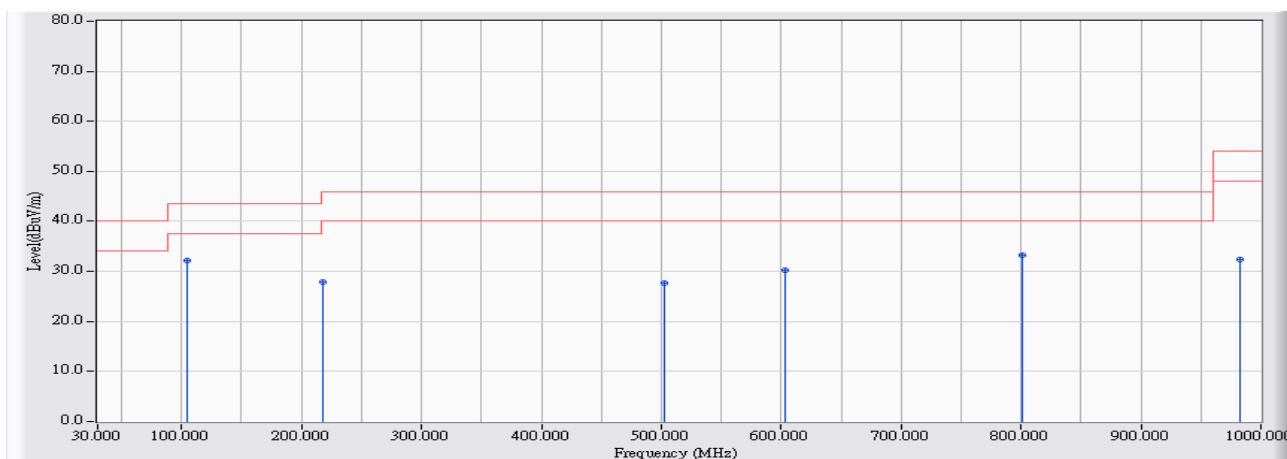


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	106.525	12.557	17.572	30.129	-13.371	43.500	QUASPEAK
2	218.549	12.266	18.848	31.114	-14.886	46.000	QUASPEAK
3	* 487.600	17.604	15.288	32.892	-13.108	46.000	QUASPEAK
4	613.591	19.888	12.145	32.033	-13.967	46.000	QUASPEAK
5	799.424	22.316	8.754	31.071	-14.929	46.000	QUASPEAK
6	978.371	24.202	7.358	31.560	-22.440	54.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/15 - 10:55
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 3: Transmit_Adapter 2 802.11ac(80M)_5210MHz

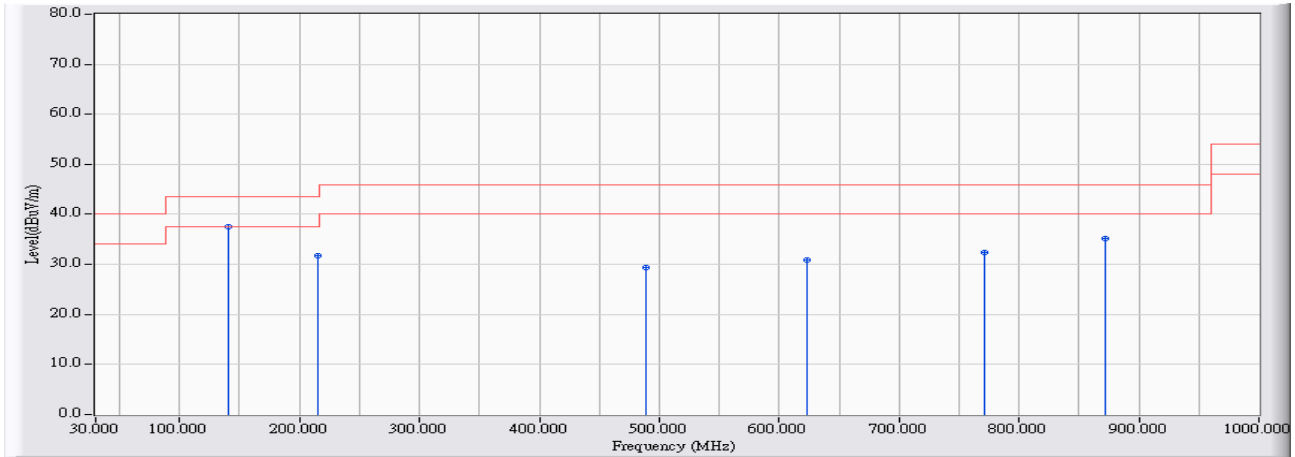


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	104.683	12.550	19.718	32.269	-11.231	43.500	QUASPEAK
2		217.967	12.274	15.505	27.779	-18.221	46.000	QUASPEAK
3		502.731	17.807	9.941	27.747	-18.253	46.000	QUASPEAK
4		603.116	19.746	10.525	30.271	-15.729	46.000	QUASPEAK
5		801.170	22.337	10.974	33.311	-12.689	46.000	QUASPEAK
6		982.348	24.240	8.090	32.330	-21.670	54.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/04 - 20:28
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 4: Transmit_Adapter 3 802.11a_5220MHz

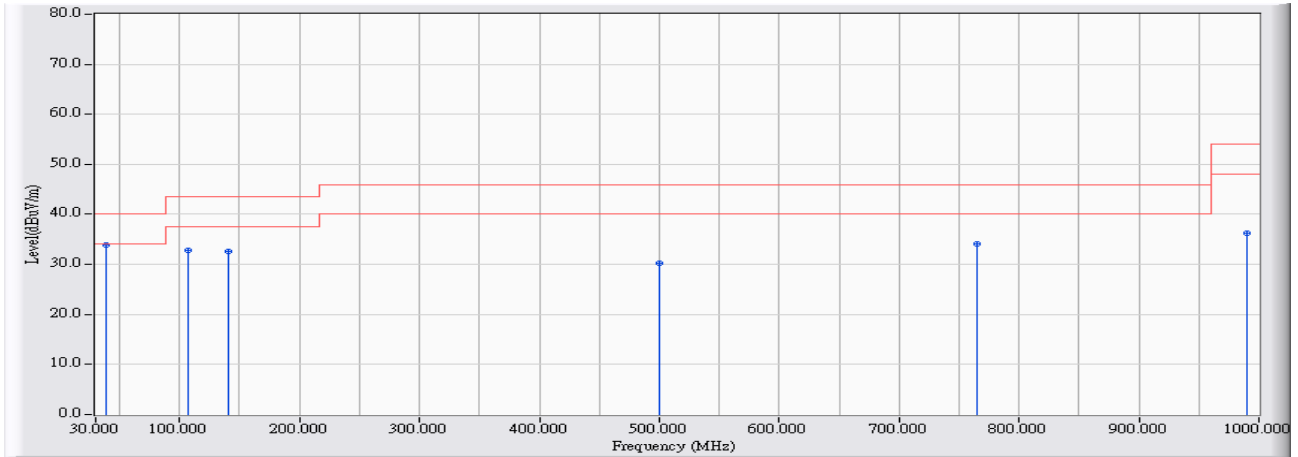


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	141.151	16.260	21.376	37.636	-5.864	43.500	QUASPEAK
2		215.057	12.313	19.407	31.720	-11.780	43.500	QUASPEAK
3		488.764	17.618	11.825	29.443	-16.557	46.000	QUASPEAK
4		623.775	20.027	10.962	30.989	-15.011	46.000	QUASPEAK
5		770.618	21.953	10.377	32.330	-13.670	46.000	QUASPEAK
6		872.167	23.139	11.960	35.098	-10.902	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/04 - 20:30
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 4: Transmit_Adapter 3 802.11a_5220MHz

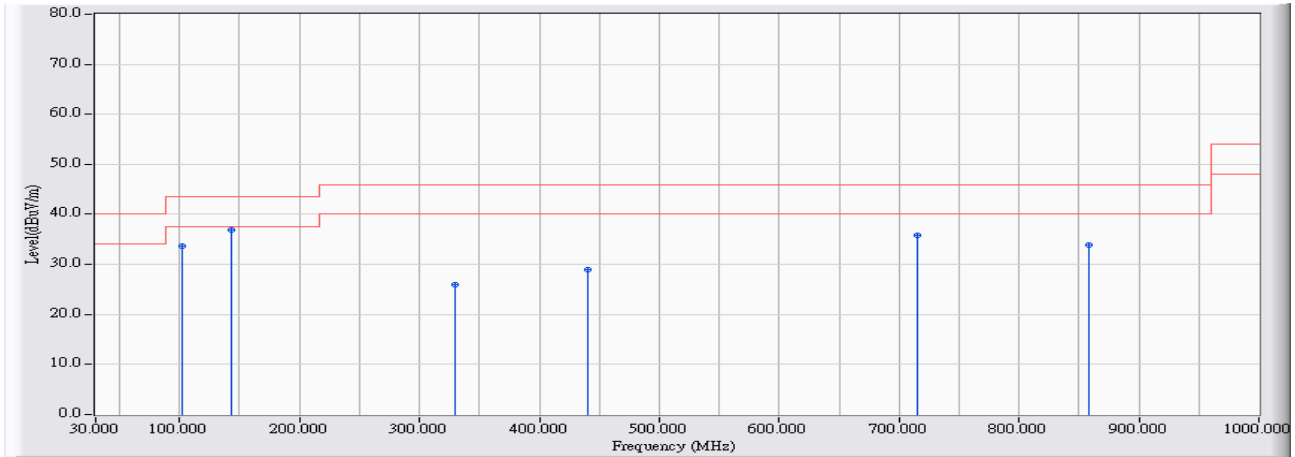


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	38.826	12.201	21.612	33.813	-6.187	40.000	QUASPEAK
2		106.622	12.558	20.302	32.860	-10.640	43.500	QUASPEAK
3		141.151	16.260	16.372	32.632	-10.868	43.500	QUASPEAK
4		500.015	17.755	12.452	30.207	-15.793	46.000	QUASPEAK
5		764.508	21.876	12.253	34.129	-11.871	46.000	QUASPEAK
6		989.913	24.312	11.873	36.185	-17.815	54.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/04 - 20:33
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 4: Transmit_Adapter 3 802.11n(20M)_5220MHz

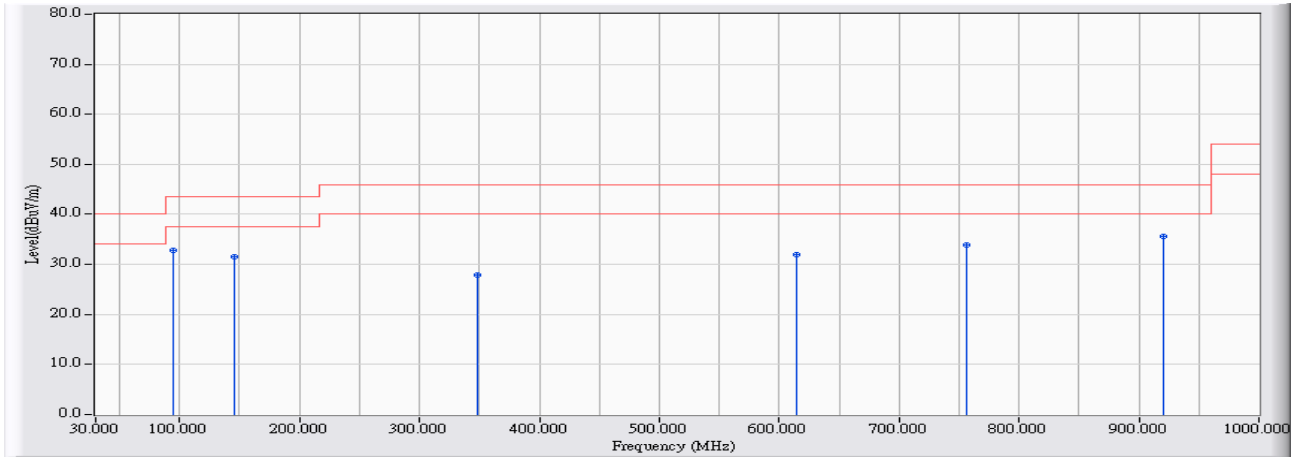


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	101.773	12.540	21.165	33.705	-9.795	43.500	QUASPEAK
2	* 143.285	16.626	20.263	36.889	-6.611	43.500	QUASPEAK
3	329.409	14.350	11.556	25.906	-20.094	46.000	QUASPEAK
4	440.075	16.918	12.008	28.926	-17.074	46.000	QUASPEAK
5	715.818	21.262	14.463	35.725	-10.275	46.000	QUASPEAK
6	858.491	22.984	10.897	33.881	-12.119	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/04 - 20:34
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 4: Transmit_Adapter 3 802.11n(20M)_5220MHz

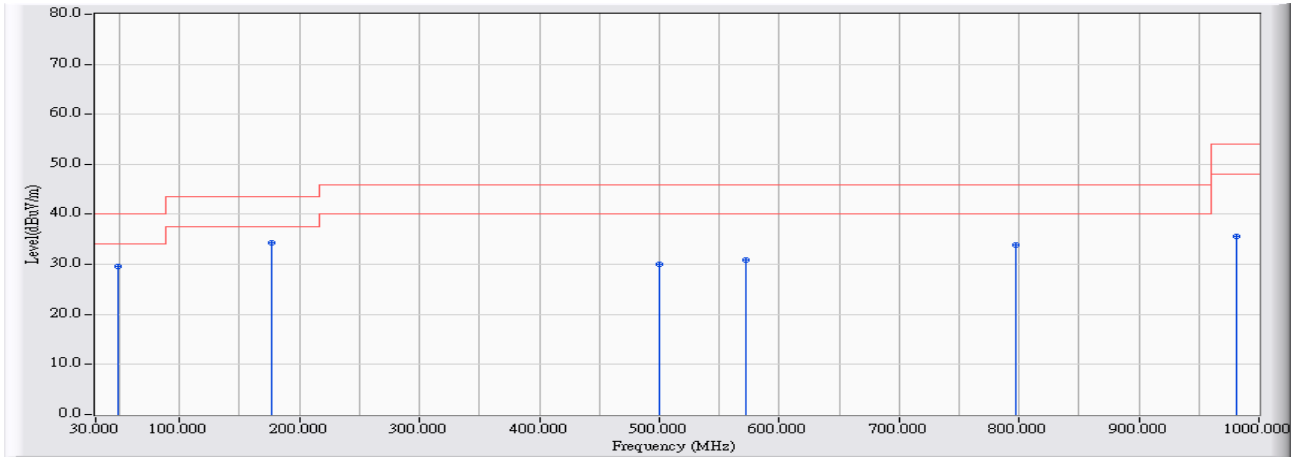


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	94.402	12.054	20.827	32.882	-10.618	43.500	QUASPEAK
2	145.224	16.959	14.613	31.572	-11.928	43.500	QUASPEAK
3	347.837	14.769	13.148	27.917	-18.083	46.000	QUASPEAK
4	614.561	19.901	12.023	31.924	-14.076	46.000	QUASPEAK
5	756.069	21.769	12.146	33.916	-12.084	46.000	QUASPEAK
6	* 919.983	23.644	11.887	35.530	-10.470	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/04 - 20:36
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 4: Transmit_Adapter 3 802.11n(40M)_5230MHz

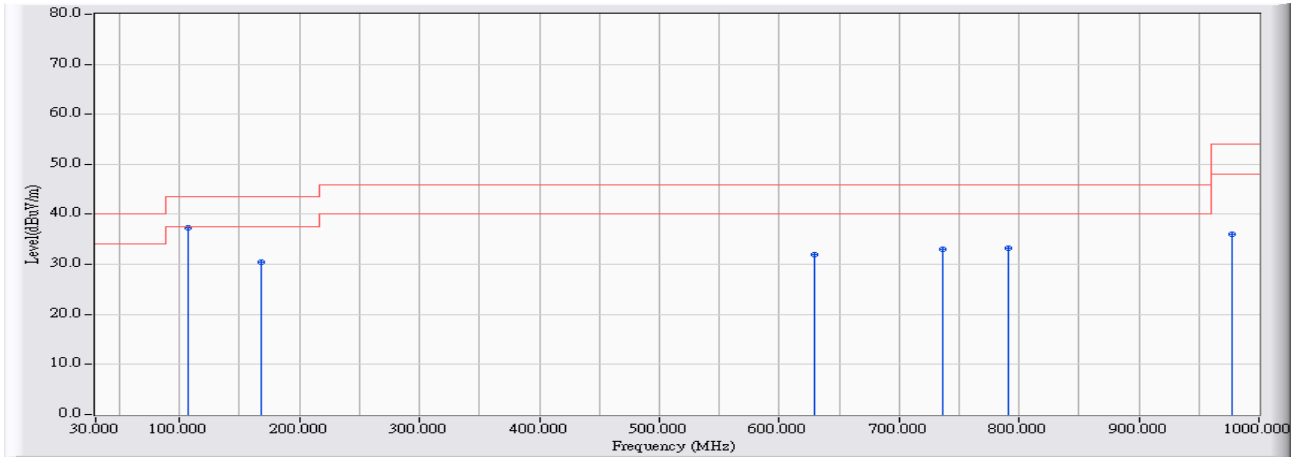


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	49.107	11.746	17.889	29.635	-10.365	40.000	QUASPEAK
2	* 176.164	15.059	19.264	34.323	-9.177	43.500	QUASPEAK
3	500.015	17.755	12.168	29.923	-16.077	46.000	QUASPEAK
4	571.691	19.151	11.740	30.891	-15.109	46.000	QUASPEAK
5	796.805	22.284	11.590	33.874	-12.126	46.000	QUASPEAK
6	980.990	24.227	11.285	35.512	-18.488	54.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/04 - 20:38
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 4: Transmit_Adapter 3 802.11n(40M)_5230MHz

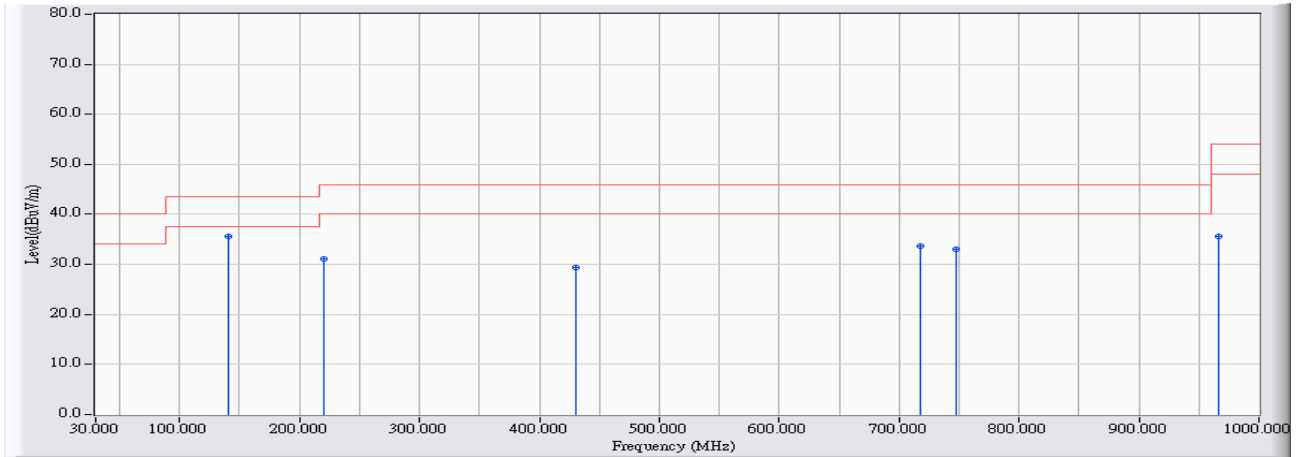


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	106.622	12.558	24.821	37.379	-6.121	43.500	QUASIPeAK
2		168.502	16.342	14.186	30.527	-12.973	43.500	QUASIPeAK
3		629.594	20.106	11.809	31.915	-14.085	46.000	QUASIPeAK
4		736.186	21.519	11.405	32.924	-13.076	46.000	QUASIPeAK
5		790.792	22.208	11.021	33.229	-12.771	46.000	QUASIPeAK
6		977.401	24.193	11.888	36.081	-17.919	54.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2016/02/04 - 20:41
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 4: Transmit_Adapter 3 802.11ac(80M)_5210MHz

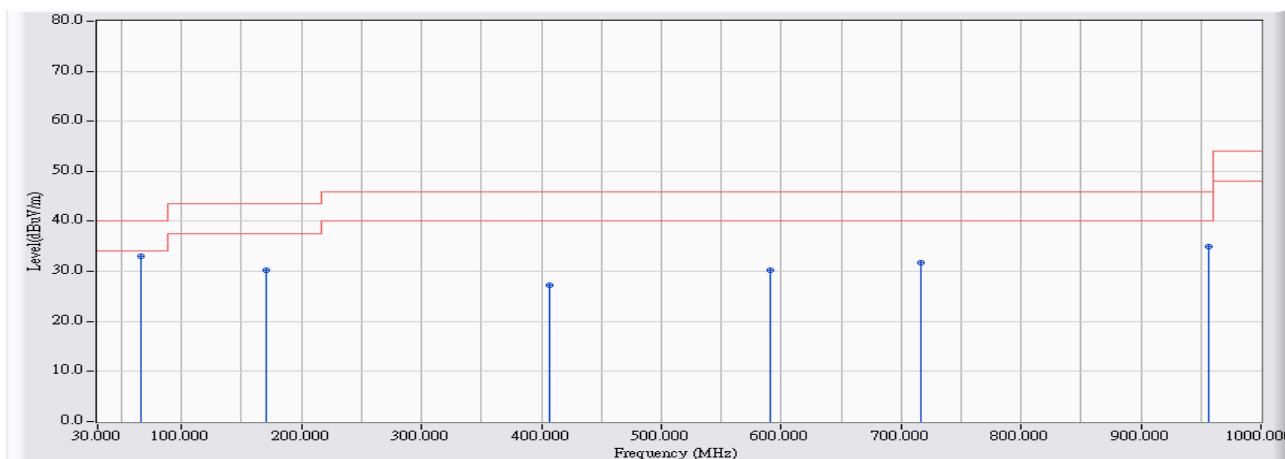


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	141.151	16.260	19.438	35.698	-7.802	43.500	QUASIPeAK
2		220.004	12.246	18.916	31.163	-14.837	46.000	QUASIPeAK
3		431.055	16.703	12.716	29.419	-16.581	46.000	QUASIPeAK
4		717.273	21.280	12.416	33.696	-12.304	46.000	QUASIPeAK
5		748.116	21.669	11.441	33.110	-12.890	46.000	QUASIPeAK
6		965.859	24.083	11.555	35.637	-18.363	54.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2016/02/04 - 20:42
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 4: Transmit_Adapter 3 802.11ac(80M)_5210MHz

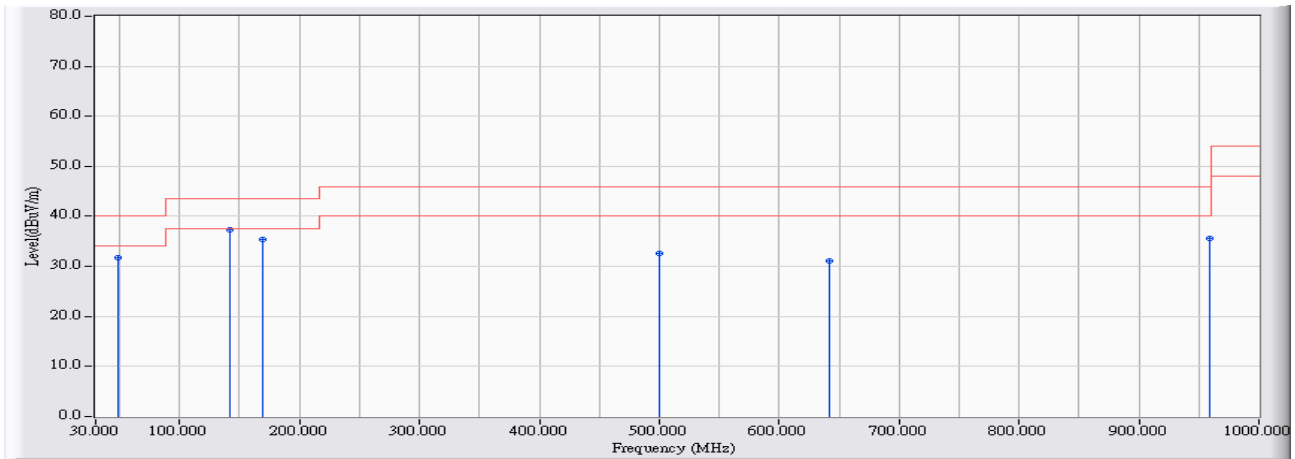


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	66.274	9.242	23.775	33.017	-6.983	40.000	QUASIPeAK
2		170.248	16.018	14.245	30.263	-13.237	43.500	QUASIPeAK
3		407.098	16.133	11.210	27.343	-18.657	46.000	QUASIPeAK
4		590.507	19.518	10.805	30.323	-15.677	46.000	QUASIPeAK
5		716.497	21.270	10.570	31.840	-14.160	46.000	QUASIPeAK
6		956.160	23.989	10.890	34.879	-11.121	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2016/02/04 - 17:24
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 5: Transmit_Adapter 4 802.11a_5220MHz

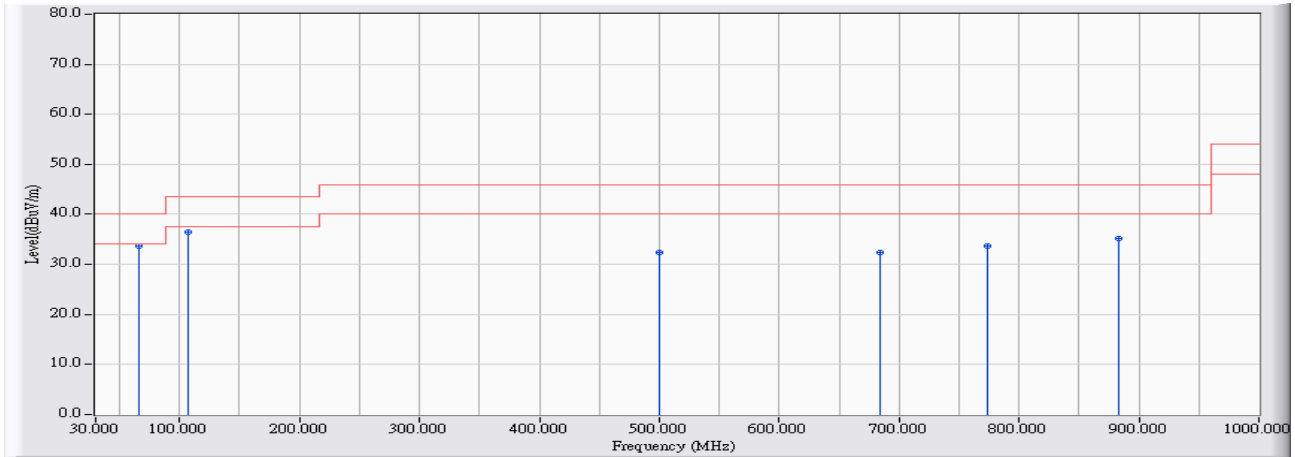


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	49.107	11.746	19.910	31.656	-8.344	40.000	QUASIPeAK
2	* 141.830	16.376	20.885	37.261	-6.239	43.500	QUASIPeAK
3	168.793	16.285	19.118	35.404	-8.096	43.500	QUASIPeAK
4	500.015	17.755	14.863	32.618	-13.382	46.000	QUASIPeAK
5	642.300	20.279	10.907	31.185	-14.815	46.000	QUASIPeAK
6	959.361	24.020	11.674	35.694	-10.306	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2016/02/04 - 17:26
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 5: Transmit_Adapter 4 802.11a_5220MHz

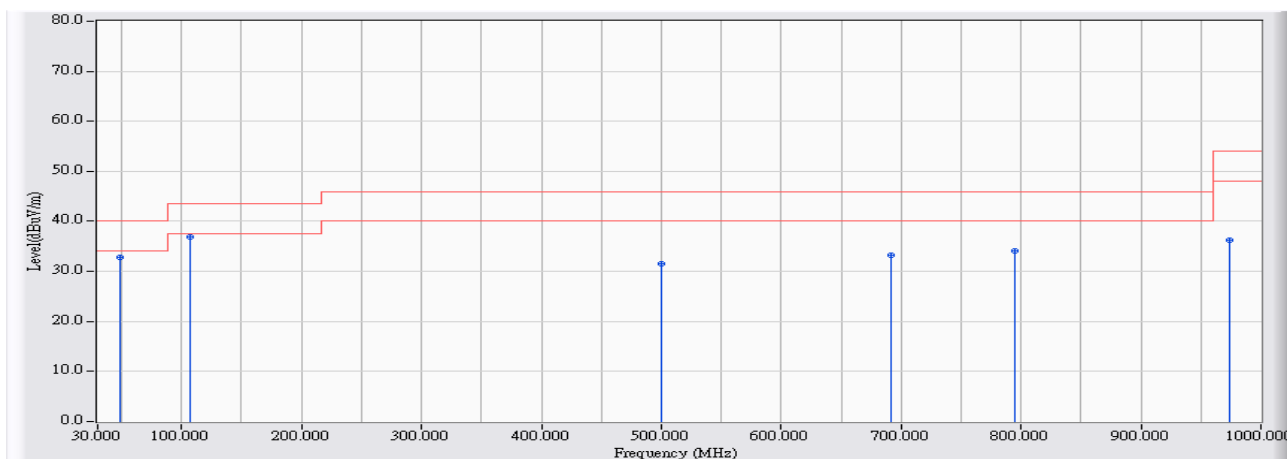


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	66.274	9.242	24.498	33.740	-6.260	40.000	QUASPEAK
2		106.622	12.558	23.983	36.541	-6.959	43.500	QUASPEAK
3		500.015	17.755	14.576	32.331	-13.669	46.000	QUASPEAK
4		684.006	20.845	11.564	32.409	-13.591	46.000	QUASPEAK
5		773.528	21.990	11.616	33.606	-12.394	46.000	QUASPEAK
6		883.127	23.262	11.973	35.235	-10.765	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/04 - 17:27
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 5: Transmit_Adapter 4 802.11n(20M)_5220MHz

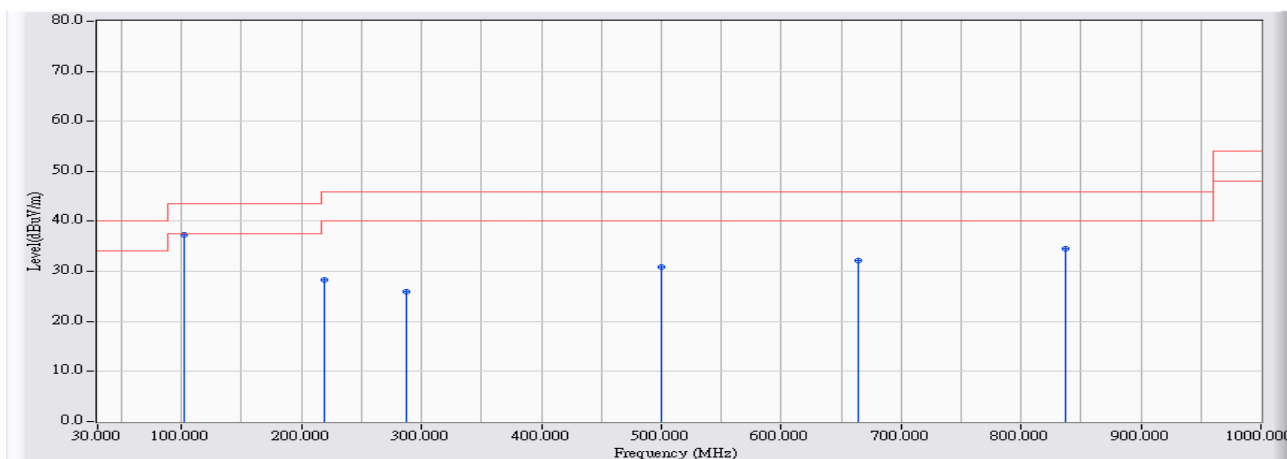


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	49.107	11.746	20.977	32.723	-7.277	40.000	QUASPEAK
2	* 106.719	12.558	24.325	36.883	-6.617	43.500	QUASPEAK
3	500.015	17.755	13.873	31.628	-14.372	46.000	QUASPEAK
4	692.056	20.955	12.279	33.234	-12.766	46.000	QUASPEAK
5	794.381	22.253	11.873	34.126	-11.874	46.000	QUASPEAK
6	974.298	24.163	12.007	36.170	-17.830	54.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/04 - 17:29
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 5: Transmit_Adapter 4 802.11n(20M)_5220MHz

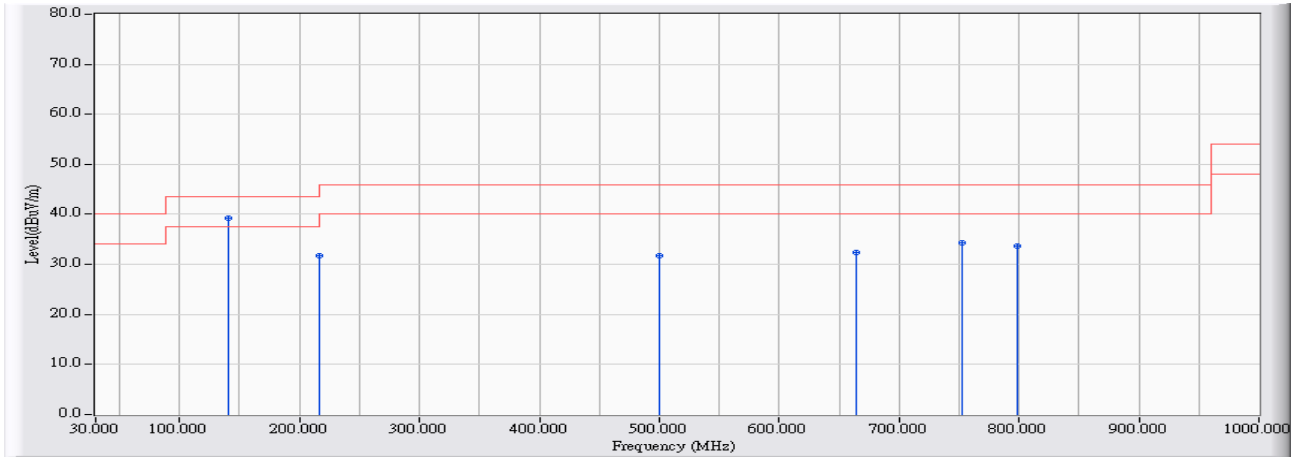


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	101.870	12.540	24.803	37.343	-6.157	43.500	QUASPEAK
2		218.840	12.262	16.051	28.313	-17.687	46.000	QUASPEAK
3		287.800	13.407	12.534	25.941	-20.059	46.000	QUASPEAK
4		500.015	17.755	13.124	30.879	-15.121	46.000	QUASPEAK
5		663.832	20.571	11.631	32.202	-13.798	46.000	QUASPEAK
6		836.474	22.735	11.813	34.548	-11.452	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/04 - 17:32
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 5: Transmit_Adapter 4
	802.11n(40M)_5230MHz

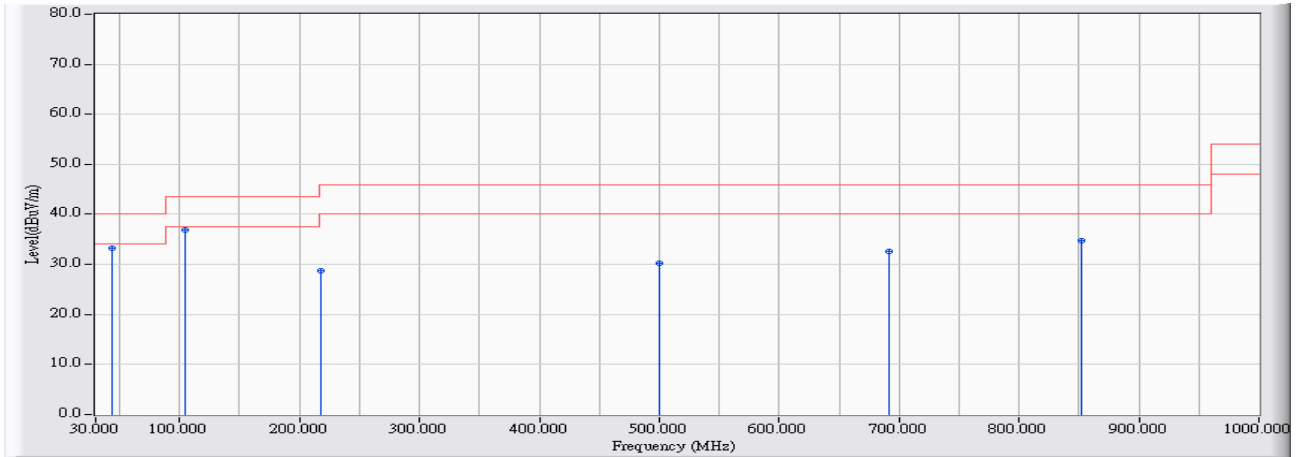


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	141.151	16.260	23.063	39.323	-4.177	43.500	QUASPEAK
2		216.415	12.295	19.424	31.719	-14.281	46.000	QUASPEAK
3		500.015	17.755	13.977	31.732	-14.268	46.000	QUASPEAK
4		663.929	20.573	11.758	32.330	-13.670	46.000	QUASPEAK
5		752.578	21.726	12.608	34.334	-11.666	46.000	QUASPEAK
6		799.133	22.313	11.347	33.660	-12.340	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/04 - 17:34
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 5: Transmit_Adapter 4 802.11n(40M)_5230MHz

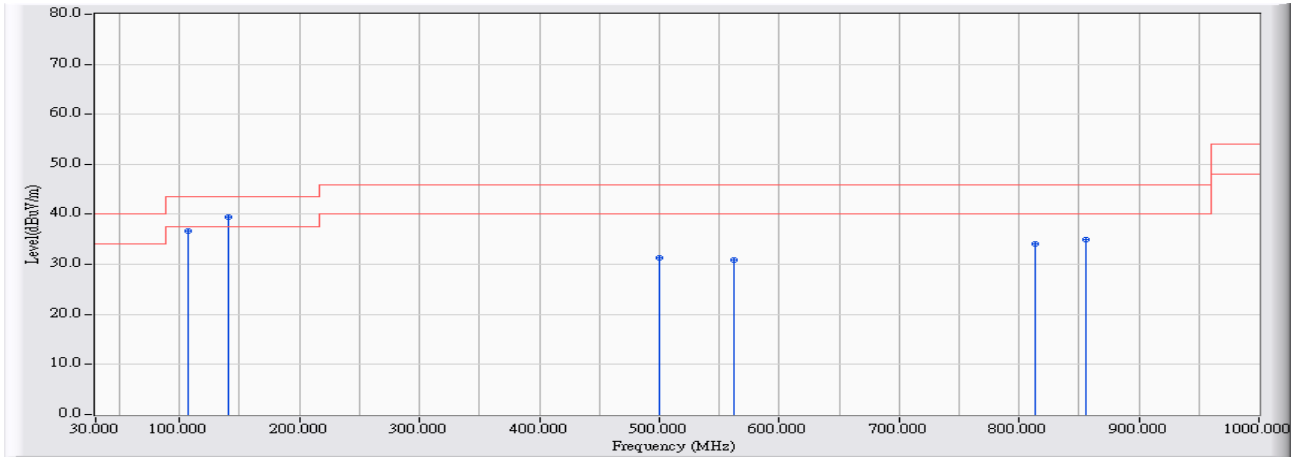


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	43.773	12.071	21.252	33.323	-6.677	40.000	QUASPEAK
2		104.683	12.550	24.238	36.789	-6.711	43.500	QUASPEAK
3		217.288	12.283	16.465	28.748	-17.252	46.000	QUASPEAK
4		500.015	17.755	12.455	30.210	-15.790	46.000	QUASPEAK
5		691.959	20.953	11.665	32.618	-13.382	46.000	QUASPEAK
6		851.702	22.908	11.764	34.671	-11.329	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/04 - 17:36
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 5: Transmit_Adapter 4 802.11ac(80M)_5210MHz

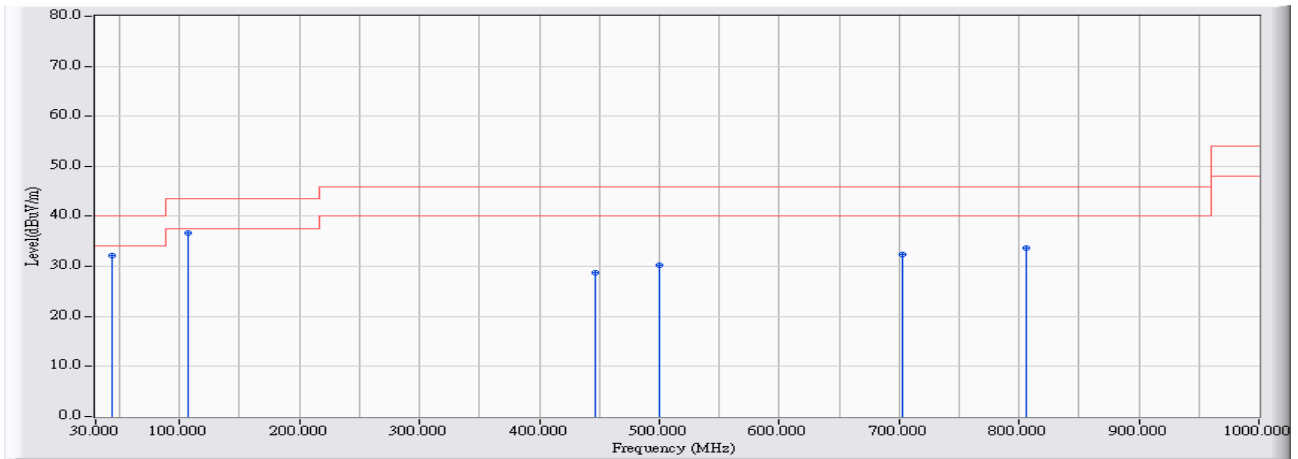


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	106.719	12.558	24.070	36.628	-6.872	43.500	QUASPEAK
2	* 141.151	16.260	23.105	39.365	-4.135	43.500	QUASPEAK
3	500.015	17.755	13.619	31.374	-14.626	46.000	QUASPEAK
4	562.768	18.977	11.892	30.869	-15.131	46.000	QUASPEAK
5	813.585	22.477	11.567	34.044	-11.956	46.000	QUASPEAK
6	856.357	22.960	11.899	34.859	-11.141	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2016/02/04 - 17:38
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : AC 120V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 5: Transmit_Adapter 4 802.11ac(80M)_5210MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	43.773	12.071	20.181	32.252	-7.748	40.000	QUASPEAK
2	* 106.719	12.558	24.077	36.635	-6.865	43.500	QUASPEAK
3	446.767	17.077	11.601	28.678	-17.322	46.000	QUASPEAK
4	500.015	17.755	12.478	30.233	-15.767	46.000	QUASPEAK
5	702.725	21.097	11.322	32.419	-13.581	46.000	QUASPEAK
6	805.825	22.390	11.208	33.598	-12.402	46.000	QUASPEAK

Note:

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

7. Band Edge

7.1. Test Equipment

The following test equipments are used during the band edge tests:

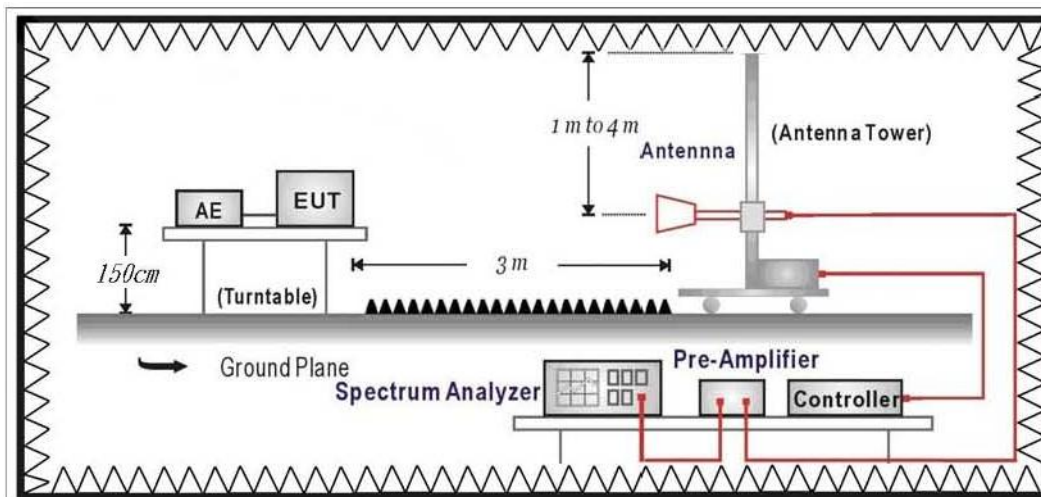
Band Edge / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120	D743	2016/01/26
Spectrum Analyzer	Agilent	E4440A	MY46187335	2016/01/07
k Type Cable	Huber Suhner	Sucoflex 102	25623/2	2016/01/26

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

7.2. Test Setup

RF Radiated Measurement:



7.3. Limits

➤ **General Radiated Emission Limits**

The provisions of Section 15.205 of this part apply to intentional radiators operating under this section. Radiated emissions which fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209:

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m @3m	dBuV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remark:

1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

➤ **Unwanted Emission out of the restricted bands Limits**

FCC Part 15 Subpart E Paragraph 15.407(b) Limits		
Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength (dBuV/m@3m)
5150~5250	-27	68.3
5250~5350	-27	68.3
5470~5725	-27	68.3
5725~5850	-27 (Note1)	68.3
	-17 (Note2)	78.3

Remark:

1. For frequencies more than 10 MHz above or below the band edges.
2. For frequency range from the band edges to 10 MHz above or below the band edges.
3.
$$uV/m = \frac{1000000 \sqrt{30 \times EIRP}}{3}$$
, RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)

7.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 KHz, above 1GHz are 1 MHz.

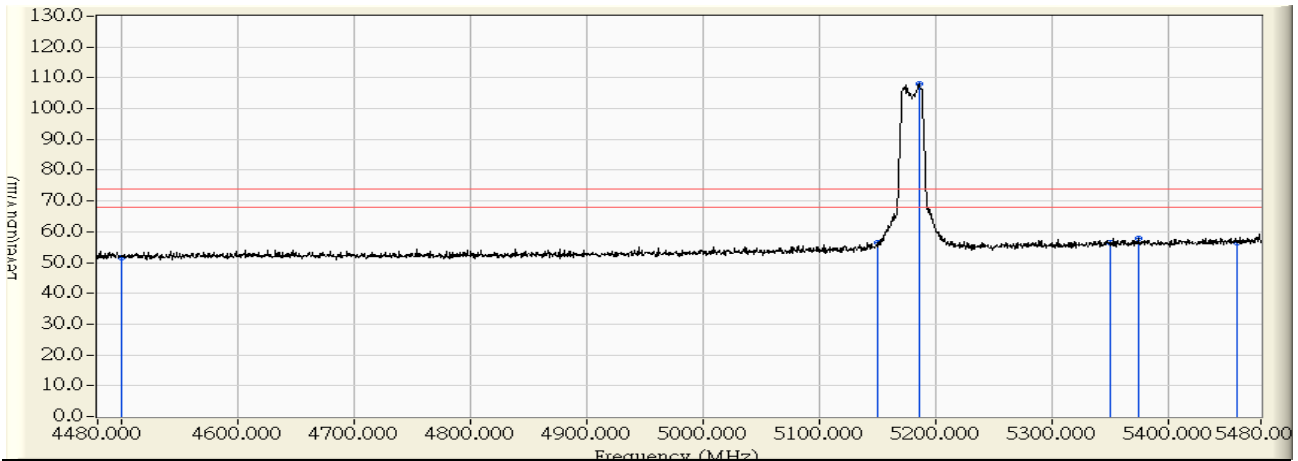
7.5. Uncertainty

The measurement uncertainty is defined as $\pm 3.65\text{dB}$

7.6. Test Result

Radiated is defined as

Site : CB1	Time : 2016/02/17 - 15:39
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1 802.11n(20M)_5180MHz

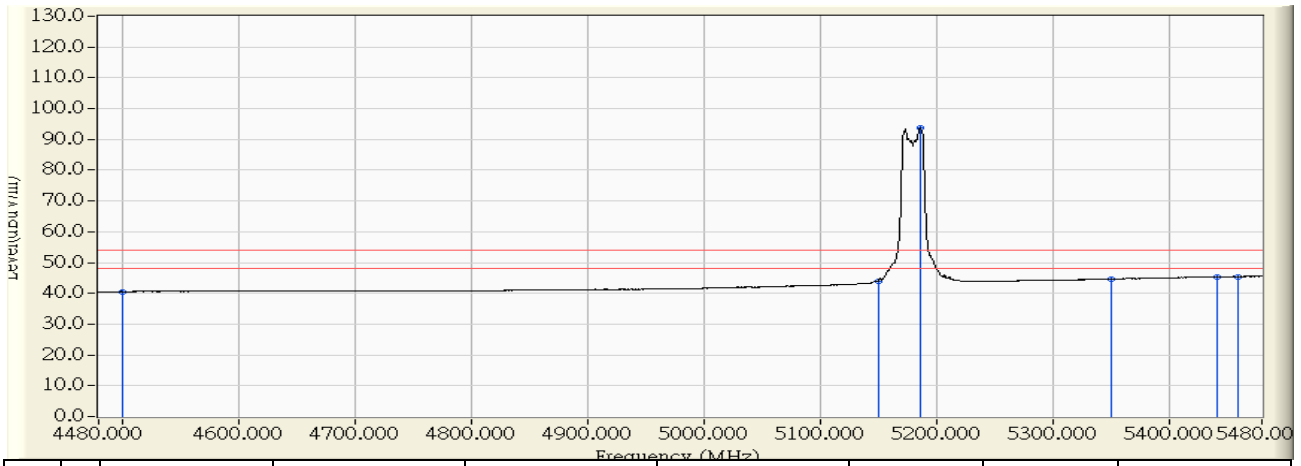


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-3.428	55.184	51.756	-22.244	74.000	PEAK
2	5150.000	-0.737	57.226	56.488	-17.512	74.000	PEAK
3	* 5186.000	-0.437	108.547	108.110	34.110	74.000	PEAK
4	5350.000	0.934	55.463	56.397	-17.603	74.000	PEAK
5	5375.500	1.146	56.586	57.733	-16.267	74.000	PEAK
6	5460.000	1.853	54.778	56.631	-17.369	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2016/02/17 - 15:41
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1 802.11n(20M)_5180MHz

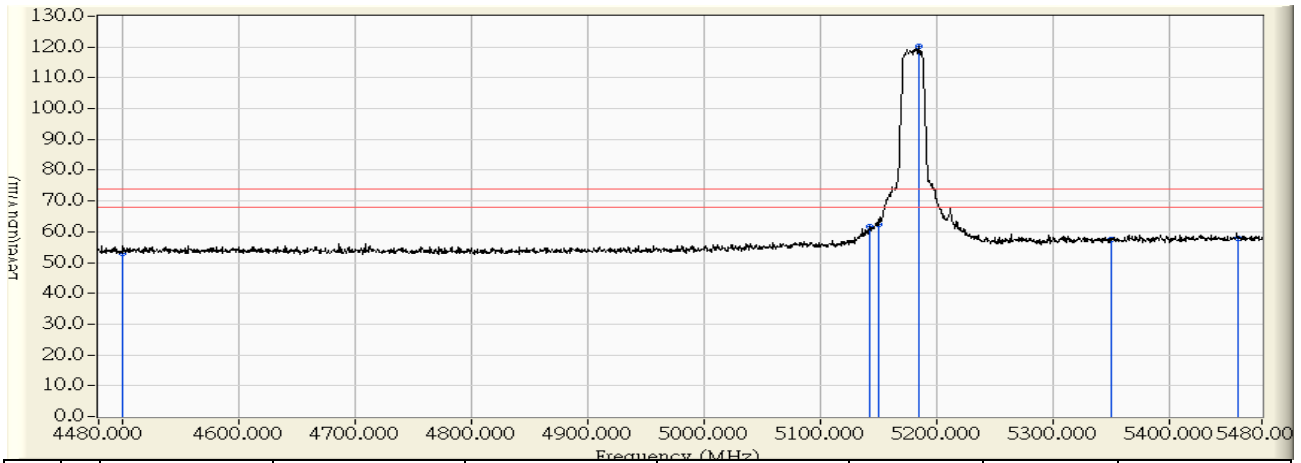


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-3.428	43.927	40.499	-13.501	54.000	AVERAGE
2	5150.000	-0.737	44.706	43.968	-10.032	54.000	AVERAGE
3	* 5186.500	-0.433	94.105	93.672	39.672	54.000	AVERAGE
4	5350.000	0.934	43.711	44.645	-9.355	54.000	AVERAGE
5	5441.000	1.693	43.713	45.407	-8.593	54.000	AVERAGE
6	5460.000	1.853	43.561	45.414	-8.586	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2016/02/17 - 15:29
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1 802.11n(20M)_5180MHz

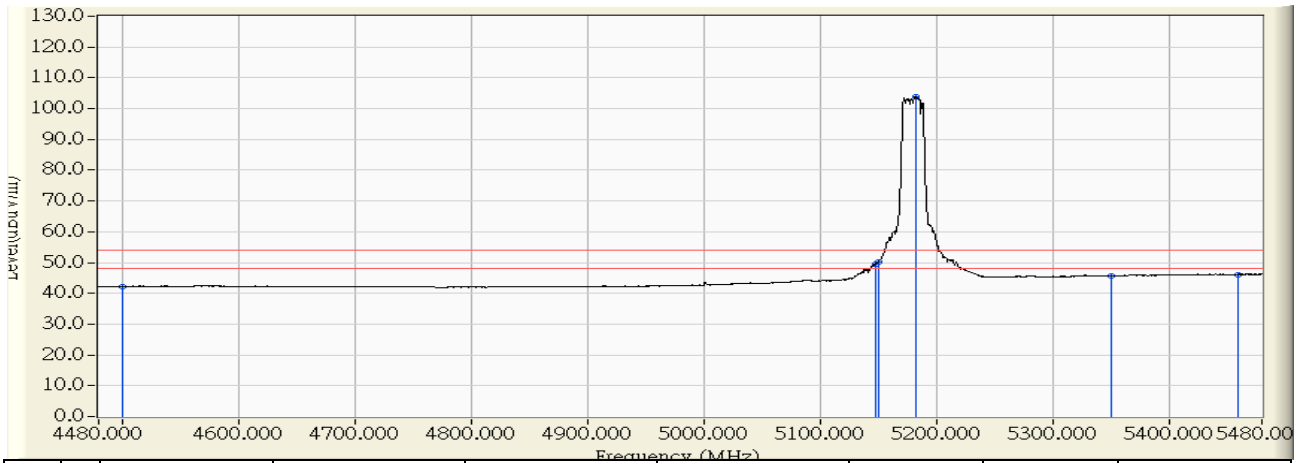


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-1.721	54.760	53.039	-20.961	74.000	PEAK
2	5142.500	-0.380	62.012	61.632	-12.368	74.000	PEAK
3	5150.000	-0.321	62.783	62.462	-11.538	74.000	PEAK
4	* 5185.000	-0.046	120.355	120.309	46.309	74.000	PEAK
5	5350.000	1.250	56.152	57.402	-16.598	74.000	PEAK
6	5460.000	2.114	55.677	57.791	-16.209	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2016/02/17 - 15:30
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1 802.11n(20M)_5180MHz

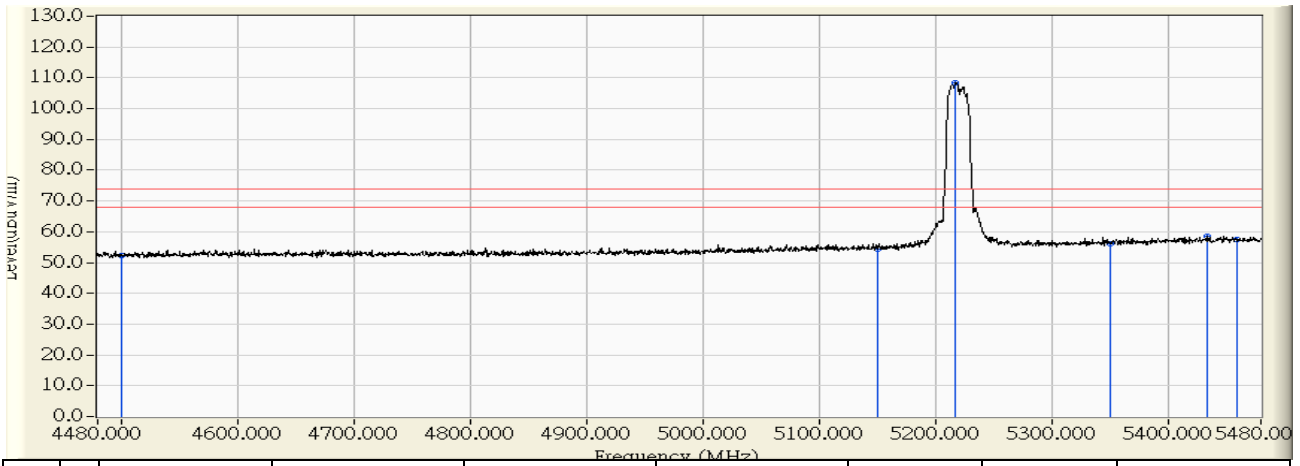


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-1.721	44.051	42.330	-11.670	54.000	AVERAGE
2	5147.500	-0.340	49.909	49.568	-4.432	54.000	AVERAGE
3	5150.000	-0.321	50.523	50.202	-3.798	54.000	AVERAGE
4	* 5182.500	-0.066	104.049	103.983	49.983	54.000	AVERAGE
5	5350.000	1.250	44.464	45.714	-8.286	54.000	AVERAGE
6	5460.000	2.114	43.972	46.086	-7.914	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2016/02/17 - 16:30
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1 802.11n(20M)_5220MHz

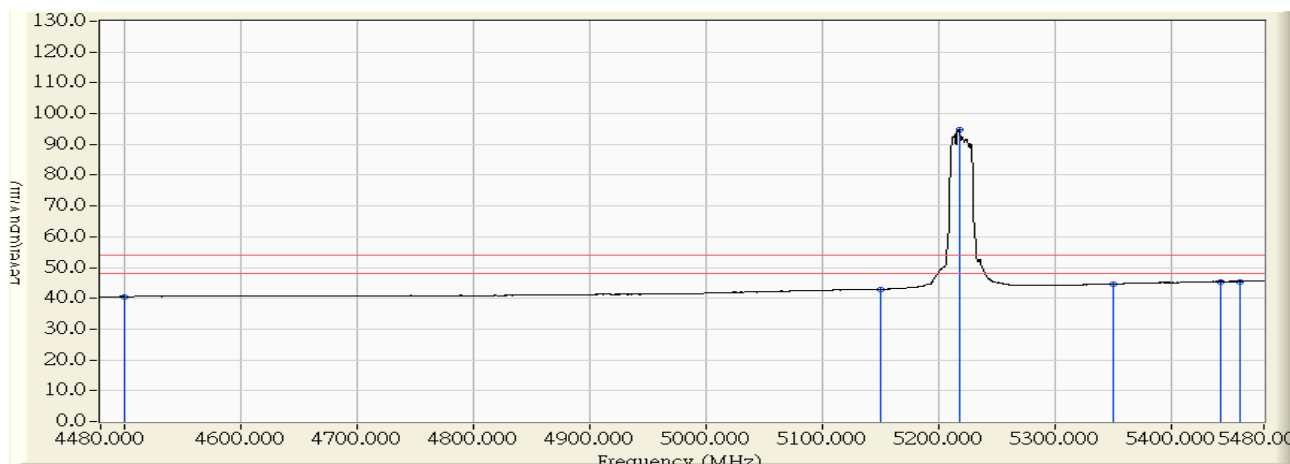


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-3.428	55.810	52.382	-21.618	74.000	PEAK
2	5150.000	-0.737	55.270	54.532	-19.468	74.000	PEAK
3	* 5217.000	-0.178	108.646	108.468	34.468	74.000	PEAK
4	5350.000	0.934	55.117	56.051	-17.949	74.000	PEAK
5	5433.500	1.631	56.780	58.411	-15.589	74.000	PEAK
6	5460.000	1.853	55.752	57.605	-16.395	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2016/02/17 - 16:32
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1 802.11n(20M)_5220MHz

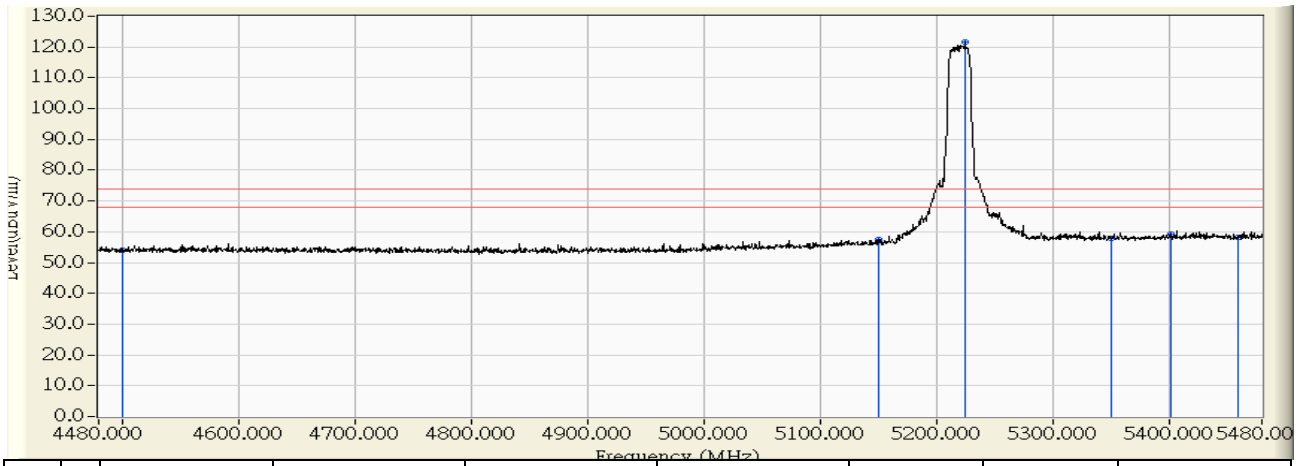


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-3.428	44.029	40.601	-13.399	54.000	AVERAGE
2	5150.000	-0.737	43.718	42.980	-11.020	54.000	AVERAGE
3	* 5218.000	-0.169	94.912	94.743	40.743	54.000	AVERAGE
4	5350.000	0.934	43.780	44.714	-9.286	54.000	AVERAGE
5	5442.500	1.707	43.748	45.455	-8.545	54.000	AVERAGE
6	5460.000	1.853	43.629	45.482	-8.518	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2016/02/17 - 16:22
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1 802.11n(20M)_5220MHz

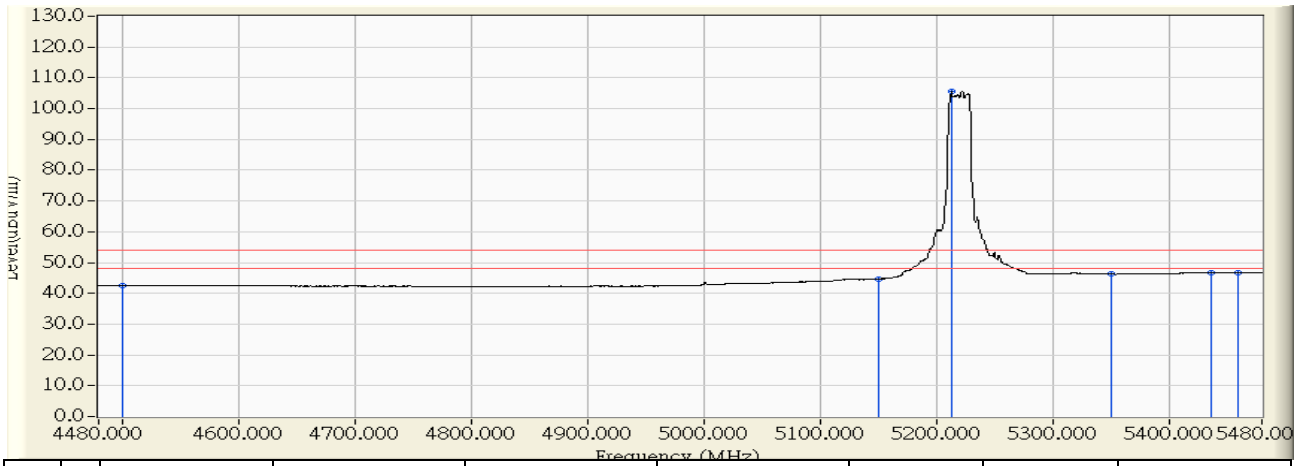


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-1.721	55.819	54.098	-19.902	74.000	PEAK
2	5150.000	-0.321	57.968	57.647	-16.353	74.000	PEAK
3	* 5225.000	0.269	121.377	121.645	47.645	74.000	PEAK
4	5350.000	1.250	56.434	57.684	-16.316	74.000	PEAK
5	5402.000	1.658	57.674	59.333	-14.667	74.000	PEAK
6	5460.000	2.114	56.051	58.165	-15.835	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2016/02/17 - 16:24
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1 802.11n(20M)_5220MHz

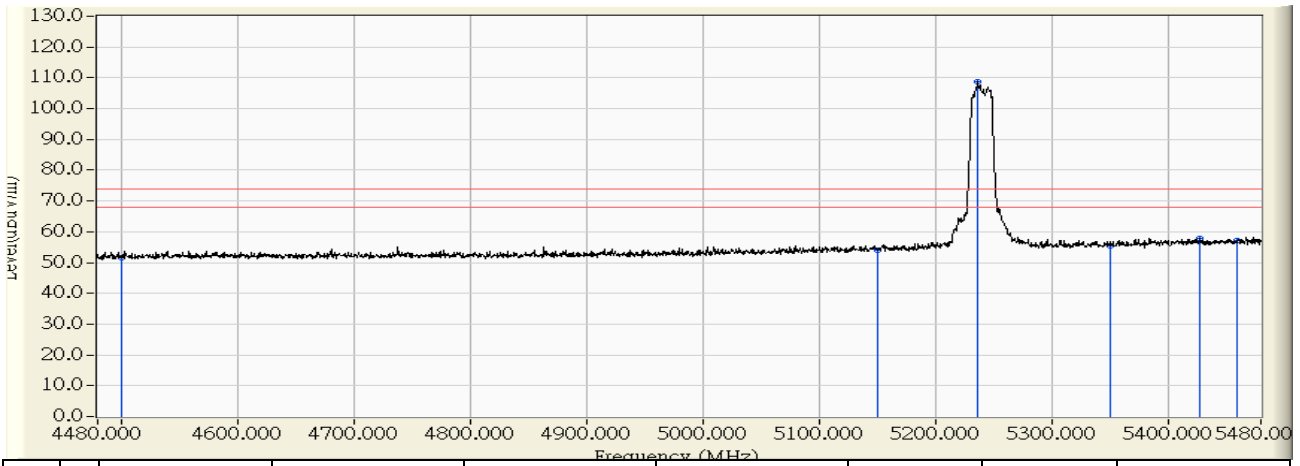


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-1.721	44.234	42.513	-11.487	54.000	AVERAGE
2	5150.000	-0.321	44.961	44.640	-9.360	54.000	AVERAGE
3	* 5213.000	0.174	105.564	105.738	51.738	54.000	AVERAGE
4	5350.000	1.250	44.972	46.222	-7.778	54.000	AVERAGE
5	5436.000	1.926	44.778	46.704	-7.296	54.000	AVERAGE
6	5460.000	2.114	44.490	46.604	-7.396	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2016/02/17 - 18:49
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1
	802.11n(20M)_5240MHz

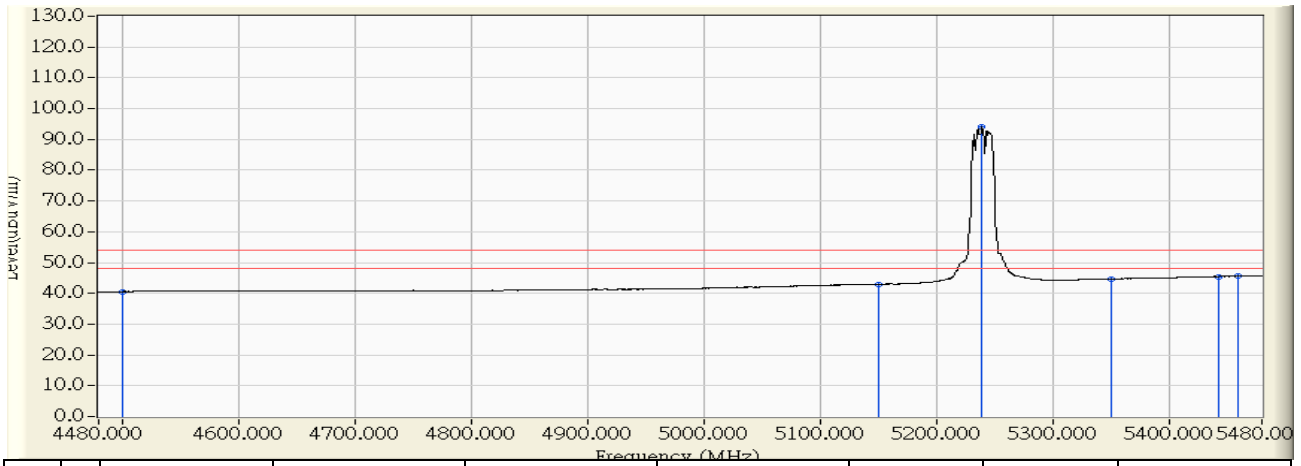


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-3.428	54.845	51.417	-22.583	74.000	PEAK
2	5150.000	-0.737	54.685	53.947	-20.053	74.000	PEAK
3	* 5237.000	-0.010	108.690	108.679	34.679	74.000	PEAK
4	5350.000	0.934	54.412	55.346	-18.654	74.000	PEAK
5	5427.500	1.581	56.318	57.899	-16.101	74.000	PEAK
6	5460.000	1.853	55.337	57.190	-16.810	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2016/02/17 - 18:51
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1 802.11n(20M)_5240MHz

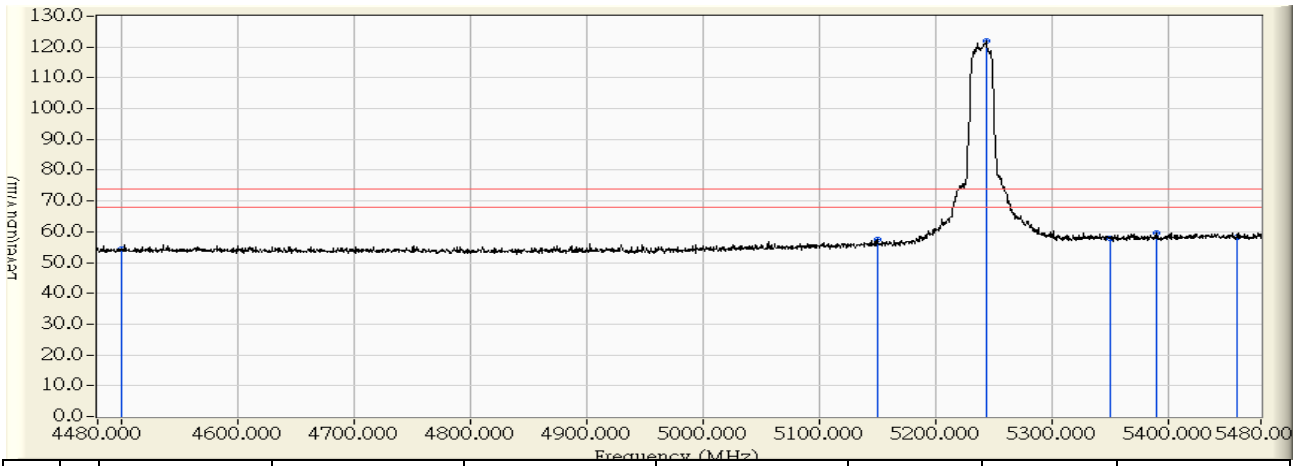


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-3.428	43.998	40.570	-13.430	54.000	AVERAGE
2	5150.000	-0.737	43.670	42.932	-11.068	54.000	AVERAGE
3	* 5239.500	0.011	93.933	93.943	39.943	54.000	AVERAGE
4	5350.000	0.934	43.735	44.669	-9.331	54.000	AVERAGE
5	5442.500	1.707	43.731	45.438	-8.562	54.000	AVERAGE
6	5460.000	1.853	43.676	45.529	-8.471	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2016/02/17 - 18:42
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1 802.11n(20M)_5240MHz

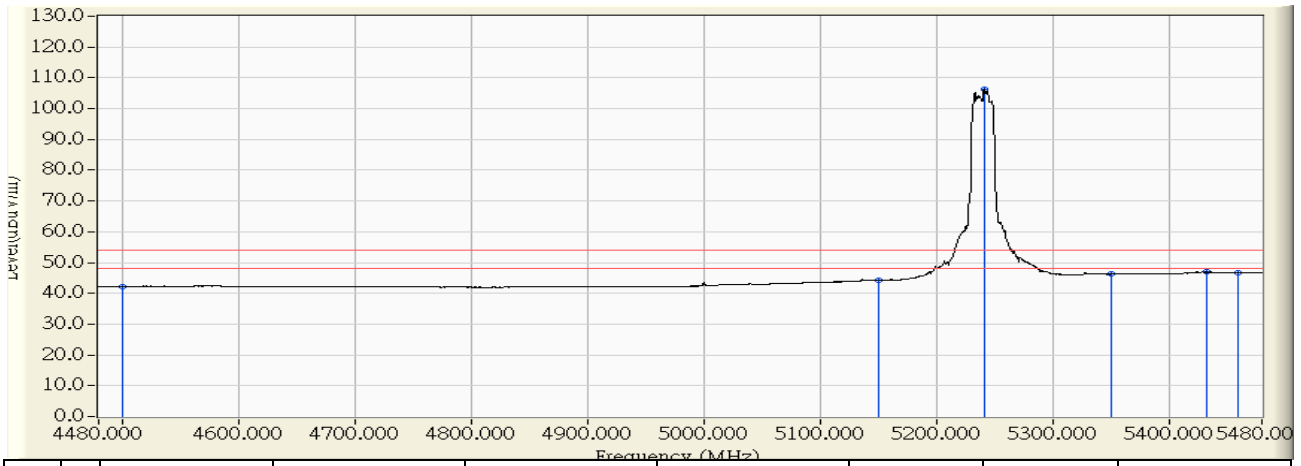


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-1.721	56.209	54.488	-19.512	74.000	PEAK
2	5150.000	-0.321	57.839	57.518	-16.482	74.000	PEAK
3	* 5243.500	0.414	121.526	121.940	47.940	74.000	PEAK
4	5350.000	1.250	56.667	57.917	-16.083	74.000	PEAK
5	5390.500	1.568	58.074	59.642	-14.358	74.000	PEAK
6	5460.000	2.114	56.255	58.369	-15.631	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2016/02/17 - 18:44
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1
	802.11n(20M)_5240MHz

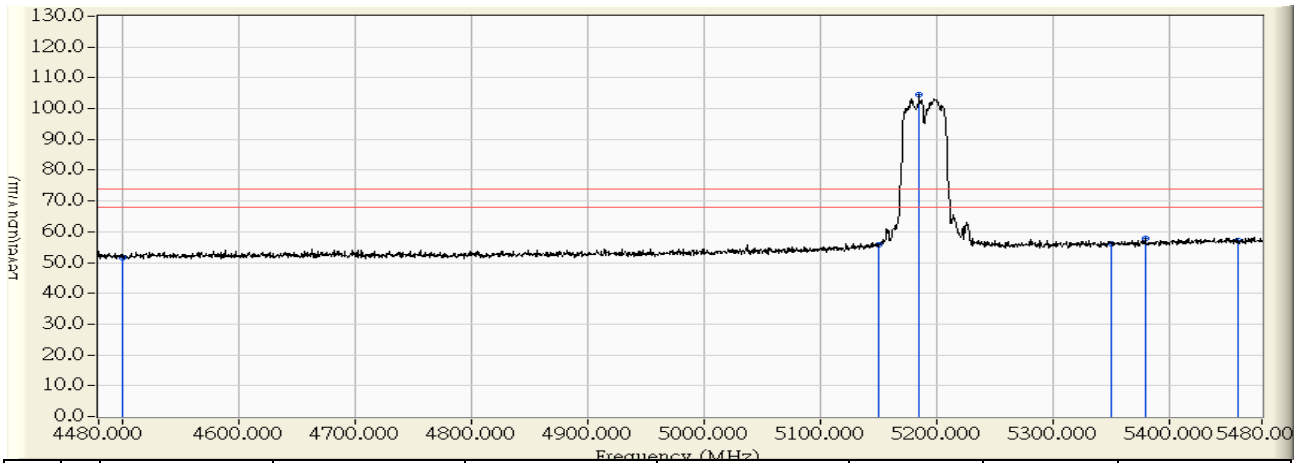


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-1.721	44.024	42.303	-11.697	54.000	AVERAGE
2	5150.000	-0.321	44.664	44.343	-9.657	54.000	AVERAGE
3	* 5241.000	0.393	105.758	106.152	52.152	54.000	AVERAGE
4	5350.000	1.250	44.940	46.190	-7.810	54.000	AVERAGE
5	5432.000	1.894	45.000	46.894	-7.106	54.000	AVERAGE
6	5460.000	2.114	44.533	46.647	-7.353	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2016/02/17 - 11:05
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1 802.11n(40M)_5190MHz

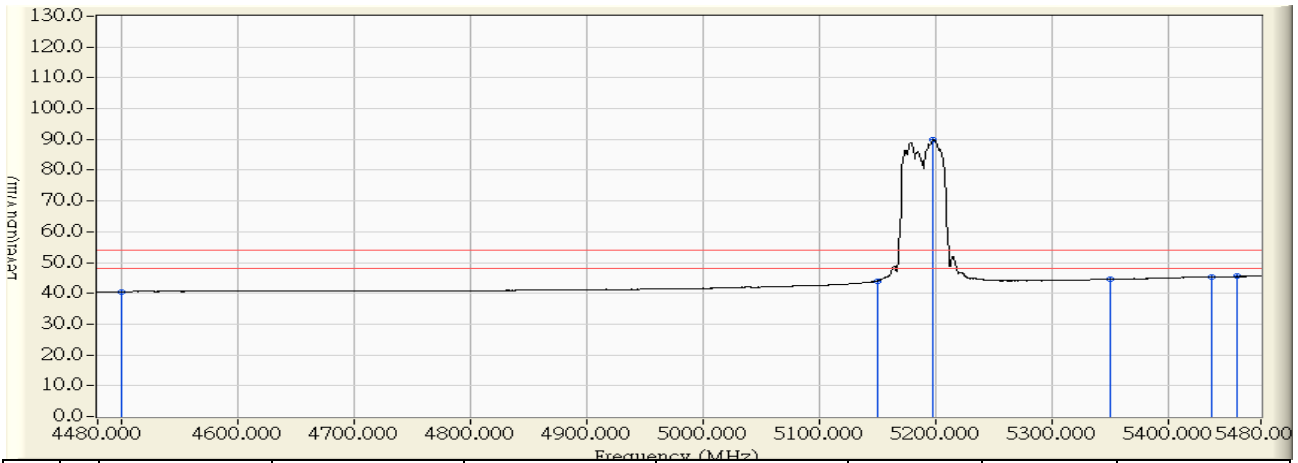


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-3.428	54.926	51.498	-22.502	74.000	PEAK
2	5150.000	-0.737	56.344	55.606	-18.394	74.000	PEAK
3	* 5185.000	-0.445	104.870	104.425	30.425	74.000	PEAK
4	5350.000	0.934	55.153	56.087	-17.913	74.000	PEAK
5	5380.000	1.185	56.577	57.761	-16.239	74.000	PEAK
6	5460.000	1.853	55.373	57.226	-16.774	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2016/02/17 - 11:06
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1 802.11n(40M)_5190MHz

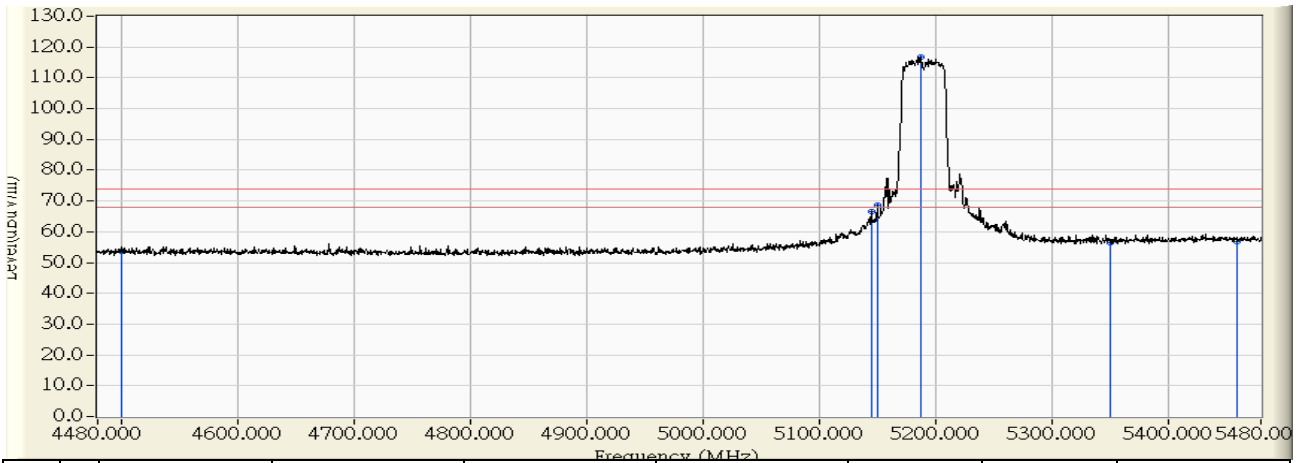


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-3.428	43.994	40.566	-13.434	54.000	AVERAGE
2	5150.000	-0.737	44.792	44.054	-9.946	54.000	AVERAGE
3	* 5198.500	-0.332	90.381	90.049	36.049	54.000	AVERAGE
4	5350.000	0.934	43.646	44.580	-9.420	54.000	AVERAGE
5	5437.500	1.665	43.644	45.309	-8.691	54.000	AVERAGE
6	5460.000	1.853	43.634	45.487	-8.513	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2016/02/17 - 10:54
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1 802.11n(40M)_5190MHz

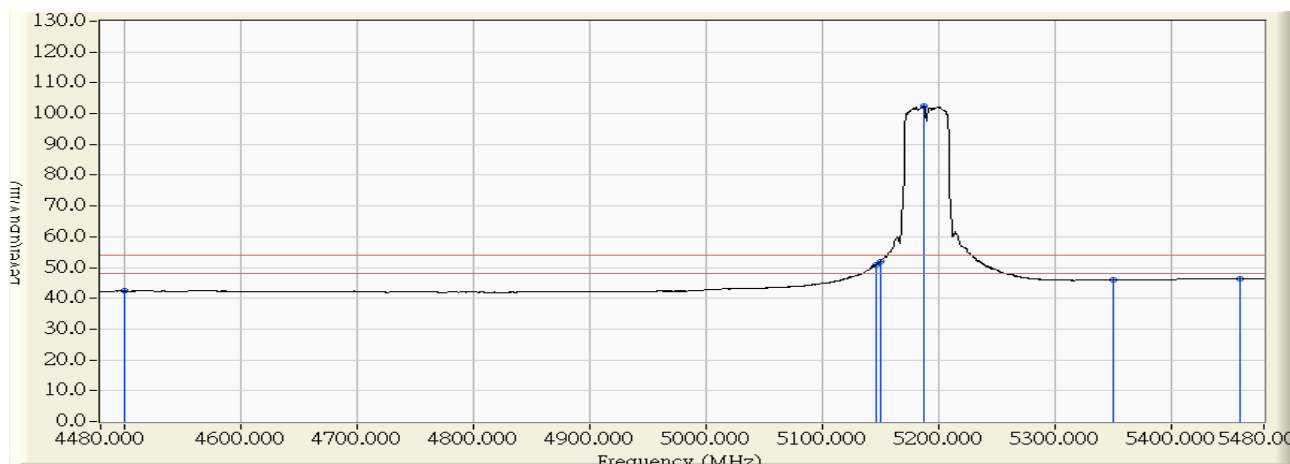


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-1.721	55.220	53.499	-20.501	74.000	PEAK
2	5145.000	-0.360	66.984	66.624	-7.376	74.000	PEAK
3	5150.000	-0.321	68.880	68.559	-5.441	74.000	PEAK
4	* 5187.500	-0.026	116.943	116.917	42.917	74.000	PEAK
5	5350.000	1.250	55.105	56.355	-17.645	74.000	PEAK
6	5460.000	2.114	54.701	56.815	-17.185	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2016/02/17 - 10:55
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1 802.11n(40M)_5190MHz

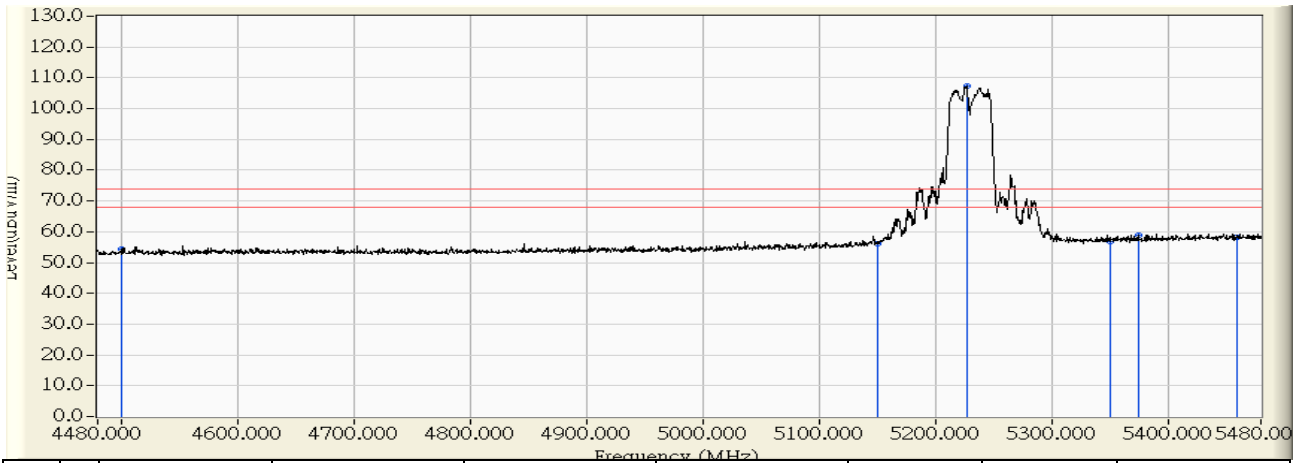


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-1.721	44.067	42.346	-11.654	54.000	AVERAGE
2	5146.500	-0.349	51.314	50.965	-3.035	54.000	AVERAGE
3	5150.000	-0.321	52.363	52.042	-1.958	54.000	AVERAGE
4	* 5187.500	-0.026	102.319	102.293	48.293	54.000	AVERAGE
5	5350.000	1.250	44.735	45.985	-8.015	54.000	AVERAGE
6	5460.000	2.114	44.156	46.270	-7.730	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2016/02/17 - 14:57
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1
	802.11n(40M)_5230MHz

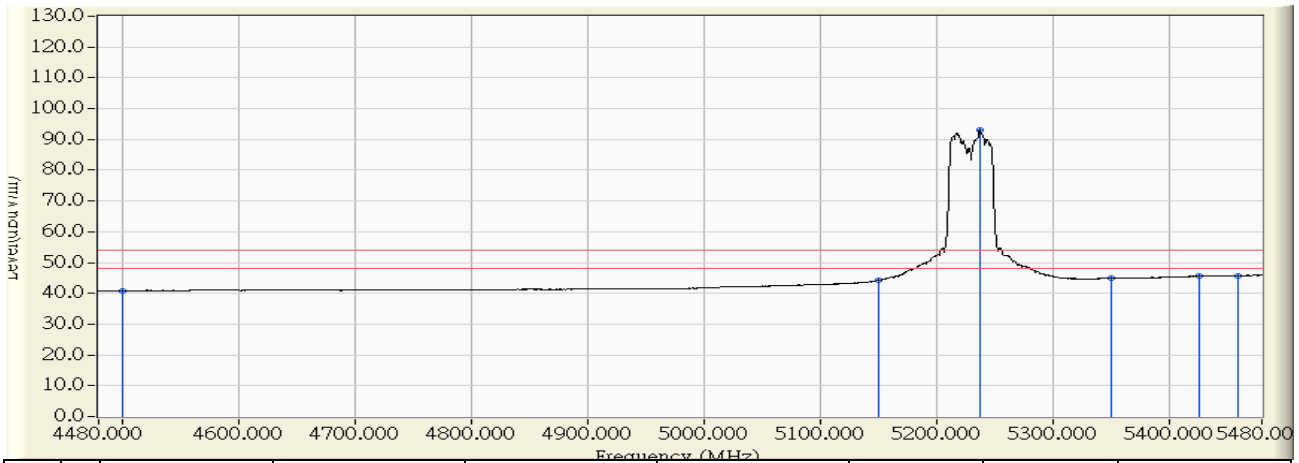


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-3.428	57.643	54.215	-19.785	74.000	PEAK
2	5150.000	-0.737	57.016	56.278	-17.722	74.000	PEAK
3	* 5227.000	-0.094	107.277	107.183	33.183	74.000	PEAK
4	5350.000	0.934	55.885	56.819	-17.181	74.000	PEAK
5	5374.500	1.139	57.680	58.818	-15.182	74.000	PEAK
6	5460.000	1.853	56.200	58.053	-15.947	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2016/02/17 - 14:59
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1 802.11n(40M)_5230MHz

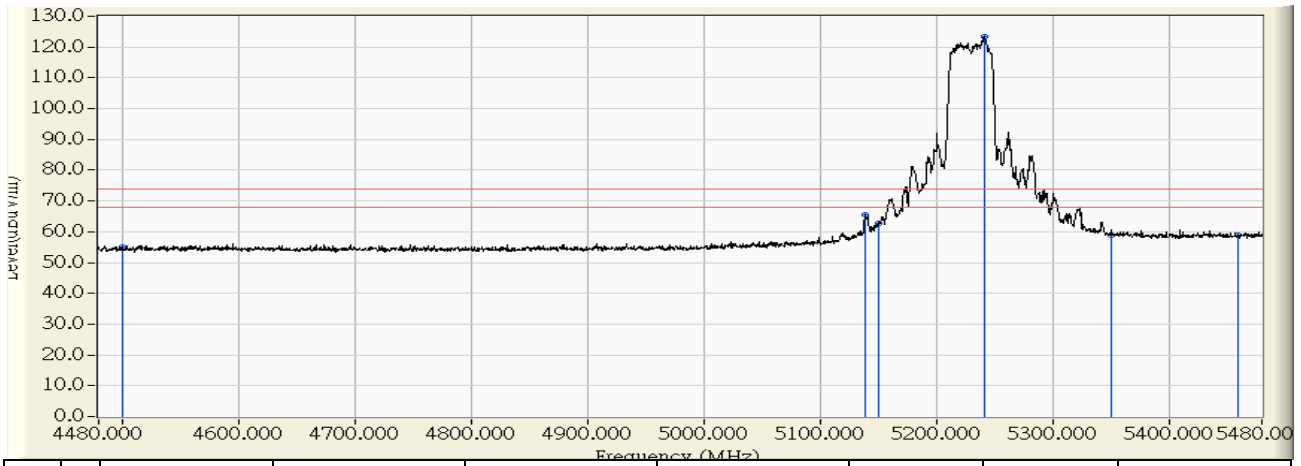


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-3.428	44.236	40.808	-13.192	54.000	AVERAGE
2	5150.000	-0.737	44.940	44.202	-9.798	54.000	AVERAGE
3	* 5237.500	-0.006	93.004	92.998	38.998	54.000	AVERAGE
4	5350.000	0.934	43.995	44.929	-9.071	54.000	AVERAGE
5	5426.000	1.568	44.011	45.580	-8.420	54.000	AVERAGE
6	5460.000	1.853	43.865	45.718	-8.282	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2016/02/17 - 14:38
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1
	802.11n(40M)_5230MHz

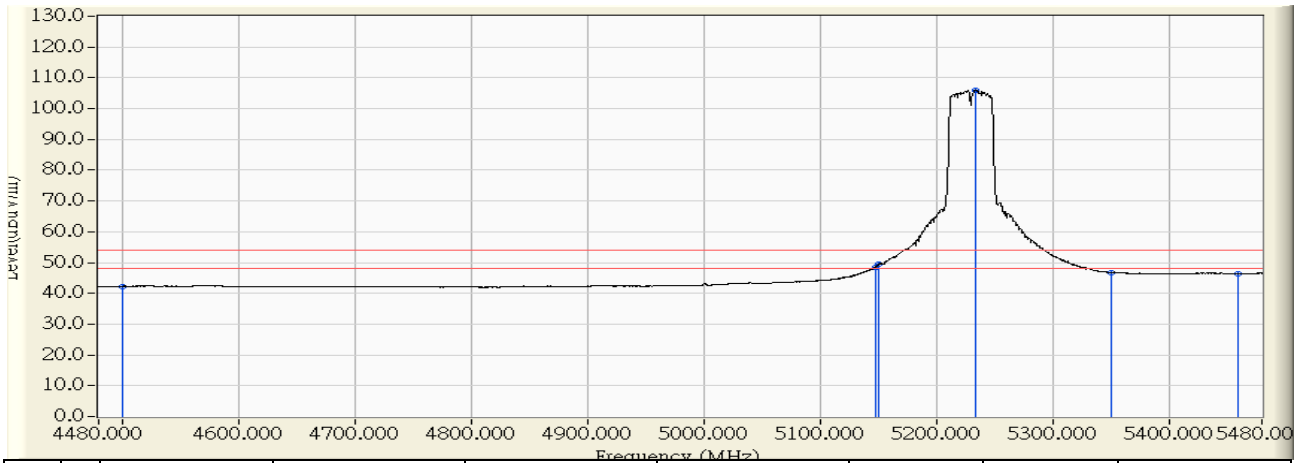


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-1.721	56.653	54.932	-19.068	74.000	PEAK
2	5139.000	-0.408	65.930	65.523	-8.477	74.000	PEAK
3	5150.000	-0.321	62.900	62.579	-11.421	74.000	PEAK
4	* 5241.000	0.393	123.021	123.415	49.415	74.000	PEAK
5	5350.000	1.250	57.582	58.832	-15.168	74.000	PEAK
6	5460.000	2.114	56.947	59.061	-14.939	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2016/02/17 - 14:41
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1 802.11n(40M)_5230MHz

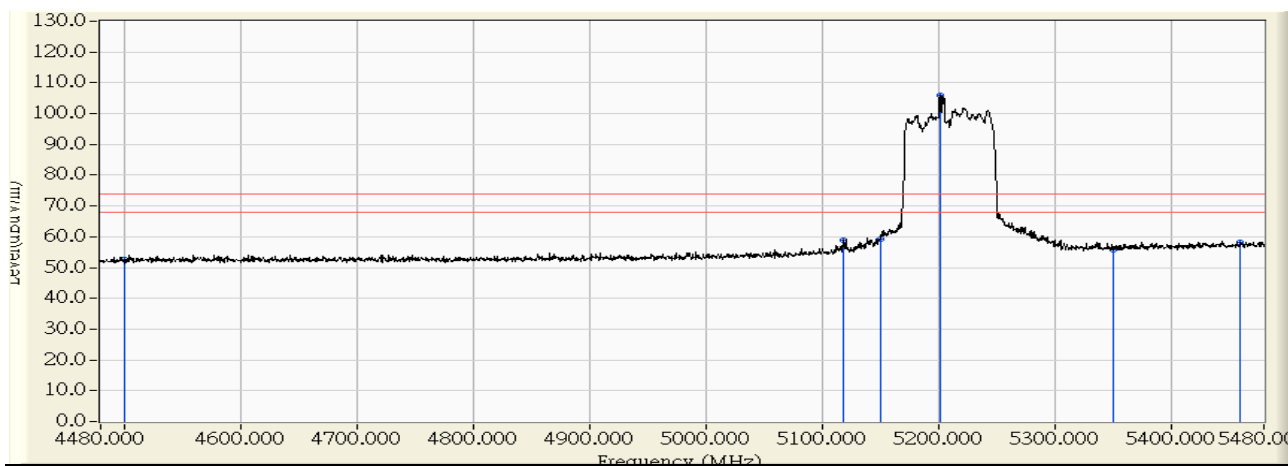


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-1.721	44.041	42.320	-11.680	54.000	AVERAGE
2	5147.500	-0.340	48.718	48.377	-5.623	54.000	AVERAGE
3	5150.000	-0.321	49.864	49.543	-4.457	54.000	AVERAGE
4	* 5234.000	0.339	105.723	106.062	52.062	54.000	AVERAGE
5	5350.000	1.250	45.460	46.710	-7.290	54.000	AVERAGE
6	5460.000	2.114	44.341	46.455	-7.545	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2016/02/17 - 10:33
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1 802.11ac(80M)_5210MHz

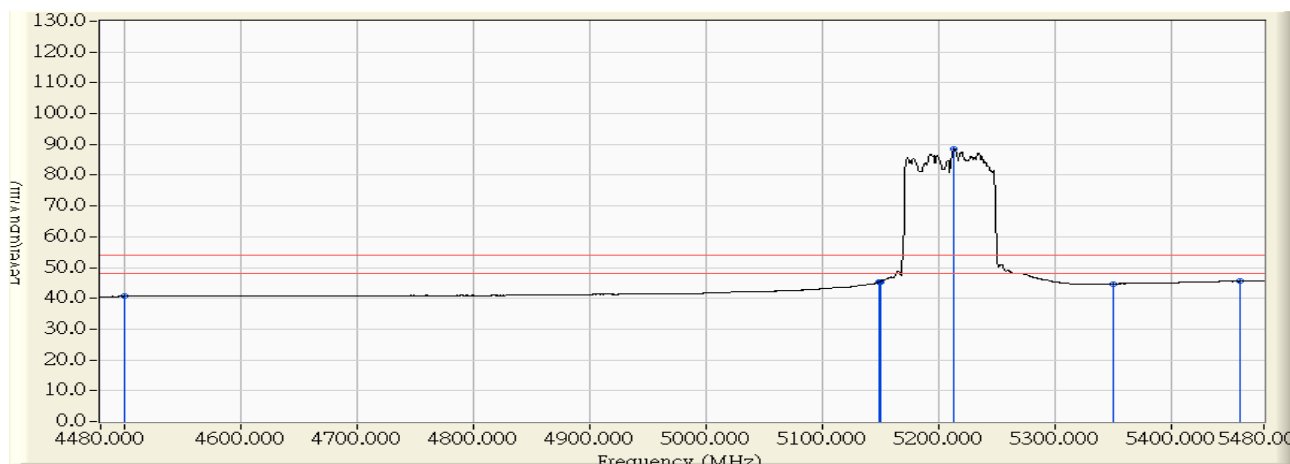


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-3.428	55.936	52.508	-21.492	74.000	PEAK
2	5119.000	-0.997	59.829	58.832	-15.168	74.000	PEAK
3	5150.000	-0.737	59.889	59.151	-14.849	74.000	PEAK
4	* 5201.500	-0.308	106.188	105.881	31.881	74.000	PEAK
5	5350.000	0.934	54.922	55.856	-18.144	74.000	PEAK
6	5460.000	1.853	56.180	58.033	-15.967	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2016/02/17 - 10:35
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1 802.11ac(80M)_5210MHz

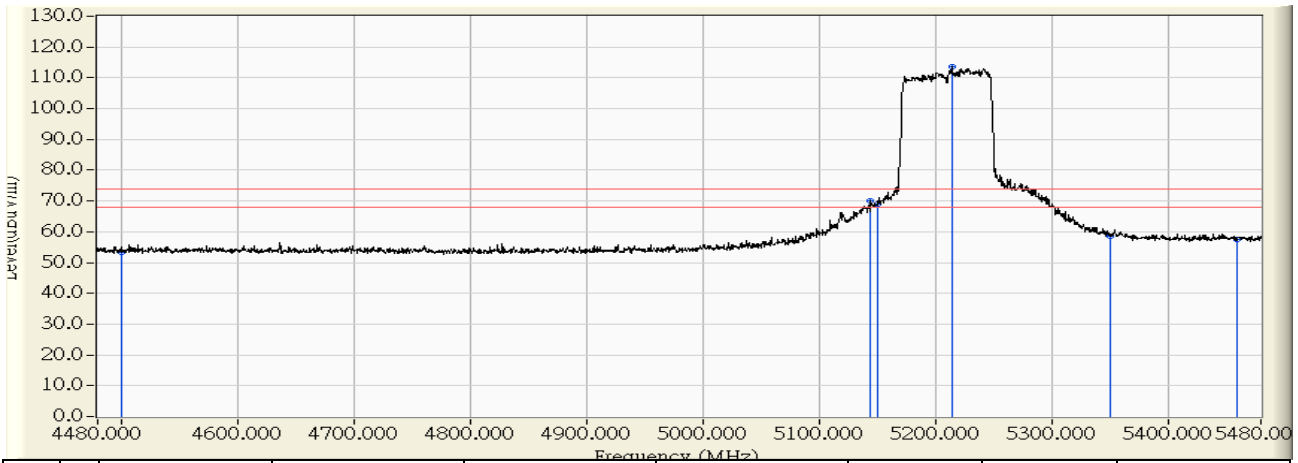


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-3.428	44.079	40.651	-13.349	54.000	AVERAGE
2	5149.000	-0.746	46.018	45.272	-8.728	54.000	AVERAGE
3	5150.000	-0.737	46.212	45.474	-8.526	54.000	AVERAGE
4	* 5213.500	-0.207	88.577	88.370	34.370	54.000	AVERAGE
5	5350.000	0.934	43.799	44.733	-9.267	54.000	AVERAGE
6	5460.000	1.853	43.686	45.539	-8.461	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2016/02/17 - 10:17
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1 802.11ac(80M)_5210MHz

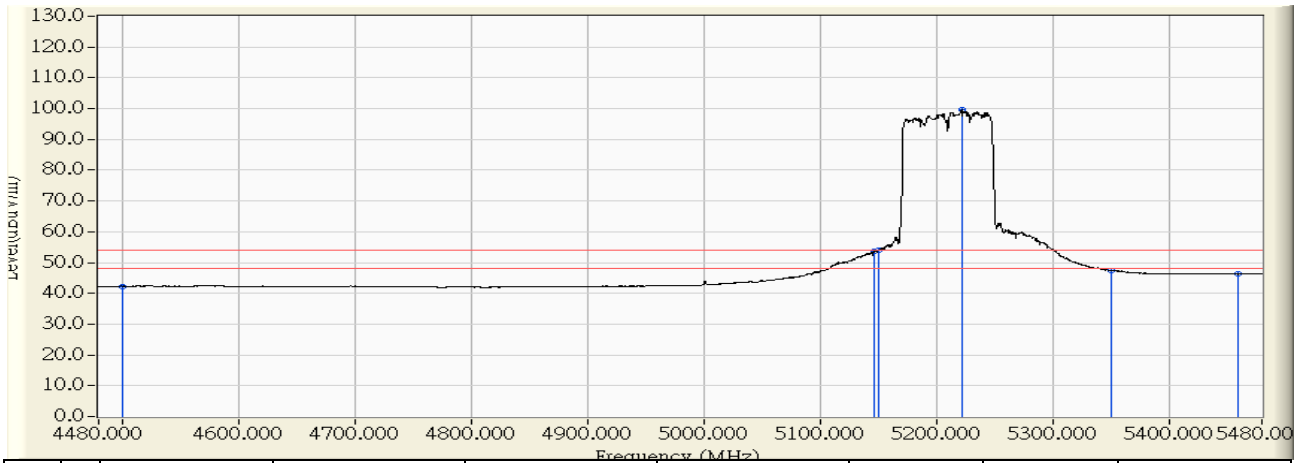


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBUV)	Measure Level (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Detector Type
1	4500.000	-1.721	55.064	53.343	-20.657	74.000	PEAK
2	5144.500	-0.364	70.347	69.983	-4.017	74.000	PEAK
3	5150.000	-0.321	69.156	68.835	-5.165	74.000	PEAK
4	* 5214.000	0.182	113.437	113.619	39.619	74.000	PEAK
5	5350.000	1.250	57.469	58.719	-15.281	74.000	PEAK
6	5460.000	2.114	55.539	57.653	-16.347	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2016/02/17 - 10:21
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : AC 120 V / 60Hz
EUT : Wireless-AC2600 Dual WAN VPN Wireless Router	Note : Mode 1: Transmit_Beamforming Mode_Adapter 1 802.11ac(80M)_5210MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4500.000	-1.721	44.053	42.332	-11.668	54.000	AVERAGE
2	5147.000	-0.344	53.974	53.629	-0.371	54.000	AVERAGE
3	5150.000	-0.321	54.288	53.967	-0.033	54.000	AVERAGE
4	* 5222.000	0.244	99.414	99.659	45.659	54.000	AVERAGE
5	5350.000	1.250	46.056	47.306	-6.694	54.000	AVERAGE
6	5460.000	2.114	44.073	46.187	-7.813	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.