



Test Report

Product Name : Dual-band Wireless-N750 Gigabit Router
Model No. : RT-N65U
FCC ID. : MSQ-RTN65U

Applicant : ASUSTeK COMPUTER INC.

Address : No. 15, Li-Te Rd., Peitou, Taipei 112, Taiwan R.O.C.

Date of Receipt : 2012/04/16

Issued Date : 2012/05/23

Report No. : 124335R-RFUSP46V01

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 : 2012/05/23

Report No. : 124335R-RFUSP46V01



Product Name : Dual-band Wireless-N750 Gigabit Router
 Applicant : ASUSTeK COMPUTER INC.
 Address : No. 15, Li-Te Rd., Peitou, Taipei 112, Taiwan R.O.C.
 Manufacturer : Askey Technology (Jiang Su) LTD.
 Model No. : RT-N65U
 FCC ID. : MSQ-RTN65U
 EUT Voltage : AC 100-240V, 50-60Hz
 Trade Name : ASUS
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart E Section 15.407: 2011
 ANSI C63.4: 2009
 Test Result : Complied

The test results relate only to the samples tested.

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TABLE OF CONTENTS

Description	Page
1. General Information.....	5
1.1. EUT DESCRIPTION.....	5
1.2. OPERATIONAL DESCRIPTION.....	10
1.3. TEST MODE.....	11
1.4. TESTED SYSTEM DETAILS.....	12
1.5. CONFIGURATION OF TESTED SYSTEM.....	13
1.6. EUT EXERCISE SOFTWARE.....	13
1.7. TEST FACILITY.....	14
2. Conducted Emission.....	16
2.1. TEST EQUIPMENT.....	16
2.2. TEST SETUP.....	16
2.3. LIMITS.....	17
2.4. TEST PROCEDURE.....	17
2.5. TEST SPECIFICATION.....	17
2.6. UNCERTAINTY.....	17
2.7. TEST RESULT.....	18
2.8. TEST PHOTO.....	26
3. 99% & 26dB Bandwidth.....	28
3.1. TEST EQUIPMENT.....	28
3.2. TEST SETUP.....	28
3.3. LIMITS.....	28
3.4. TEST PROCEDURE.....	28
3.5. UNCERTAINTY.....	28
3.6. TEST RESULT.....	29
4. Peak Transmit Output.....	43
4.1. TEST EQUIPMENT.....	43
4.2. TEST SETUP.....	43
4.3. LIMITS.....	44
4.4. TEST PROCEDURE.....	44
4.5. UNCERTAINTY.....	44
4.6. TEST RESULT.....	45
5. Peak Power Spectrum Density.....	61
5.1. TEST EQUIPMENT.....	61
5.2. TEST SETUP.....	61

5.3.	LIMITS	61
5.4.	TEST PROCEDURE	62
5.5.	UNCERTAINTY	62
5.6.	TEST RESULT.....	63
6.	Peak Excursion	79
6.1.	TEST EQUIPMENT.....	79
6.2.	TEST SETUP	79
6.3.	LIMITS	79
6.4.	TEST PROCEDURE	79
6.5.	UNCERTAINTY	79
6.6.	TEST RESULT.....	80
7.	Radiated Emission.....	94
7.1.	TEST EQUIPMENT.....	94
7.2.	TEST SETUP	94
7.3.	LIMITS	95
7.4.	TEST PROCEDURE	96
7.5.	UNCERTAINTY	96
7.6.	TEST RESULT.....	97
7.7.	TEST PHOTO.....	125
8.	Band Edge	128
8.1.	TEST EQUIPMENT.....	128
8.2.	TEST SETUP	128
8.3.	LIMITS	129
8.4.	TEST PROCEDURE	130
8.5.	UNCERTAINTY	130
8.6.	TEST RESULT.....	131
9.	Frequency Stability.....	143
9.1.	TEST EQUIPMENT.....	143
9.2.	TEST SETUP	143
9.3.	LIMITS	143
9.4.	TEST PROCEDURE	143
9.5.	UNCERTAINTY	143
9.6.	TEST RESULT.....	144
	ATTACHEMENT	158
	EUT PHOTOGRAPH.....	158

1. General Information

1.1. EUT Description

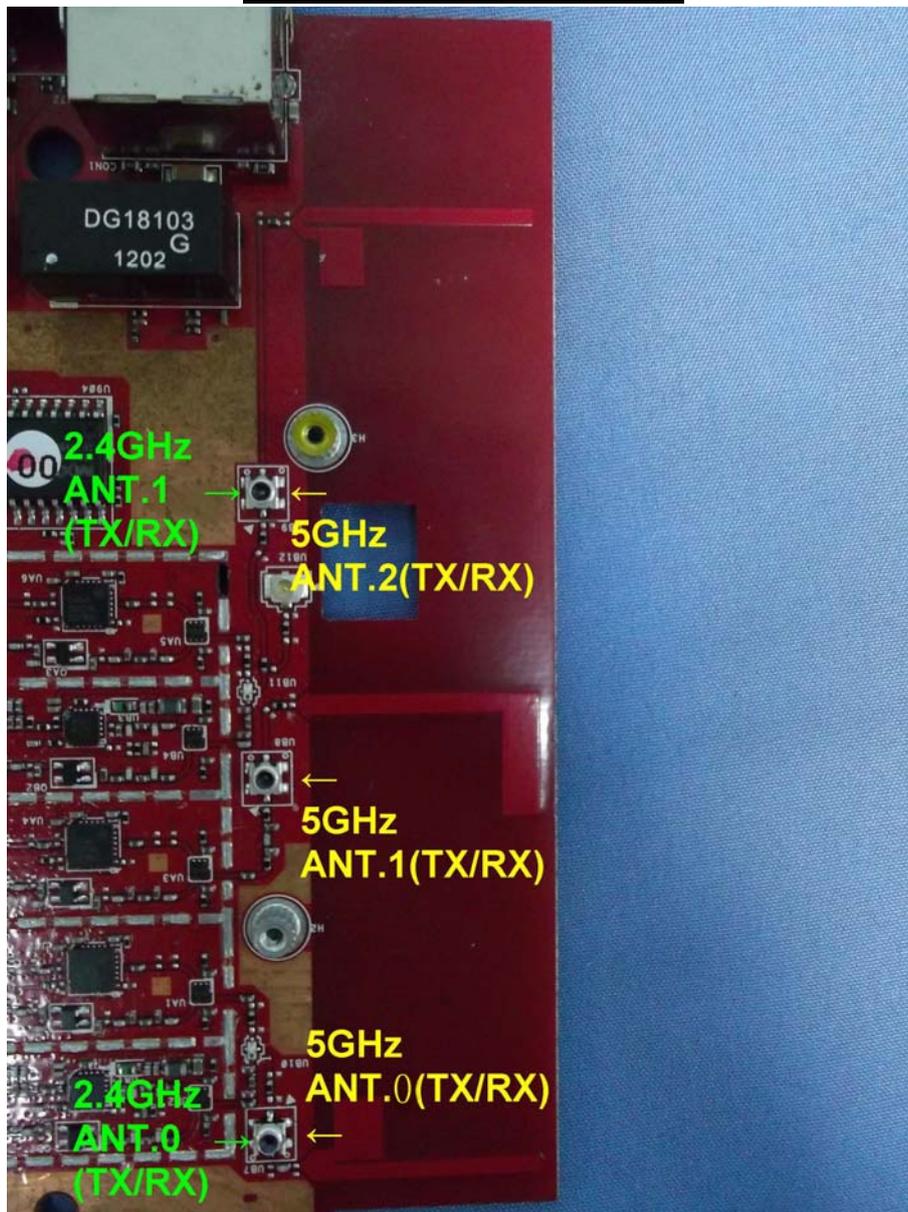
Product Name	Dual-band Wireless-N750 Gigabit Router
Product Type	WLAN (3TX, 3RX)
Trade Name	ASUS
Model No.	RT-N65U
Frequency Range -IEEE 802.11a & IEEE 802.11n (20MHz)	5180~5240MHz
Frequency Range- IEEE 802.11n (40MHz)	5190~5230MHz
Channel Number - IEEE 802.11a & IEEE 802.11n (20MHz))	4
Channel Number- IEEE 802.11n (40MHz)	2
Type of Modulation (IEEE 802.11a/n)	Orthogonal Frequency Division Multiplexing (OFDM)
Data Speed (IEEE 802.11a)	6Mbps,9Mbps,12Mbps,18Mbps,24Mbps,36Mbps,48Mbps,54Mbps
Data Speed (IEEE 802.11n)	Support a subset of the combination of GI, MCS 0~MCS 23 and bandwidth defined in 802.11n
Antenna Gain	5.59dBi
Channel Control	AUTO/Manual
Antenna Type	Internal PCB Antenna

Component	
LAN Cable	Non-Shielded, 1.5m
Power Adapter	ASUS, AD82030 I/P : AC 100-240V, 50-60Hz 0.8A O/P : +19V $\overline{\text{---}}$ 1.58A Cable Out: Non-Shielded, 1.5m, one ferrite core bonded.
Power Adapter	ASUS, EXA1004UH I/P : AC 100-240V, 50-60Hz 1A O/P : +19V $\overline{\text{---}}$ 1.58A Cable Out: Non-shielded, 1.5m, one ferrite core bonded.

ANT-TX / Rx & Bandwidth

ANT-TX / RX	SINGLE-TX		THREE-TX		RX	
Mode/ Channel Bandwidth	20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
IEEE802.11a	✓				✓	
IEEE802.11n			✓	✓	✓	✓

ANT 0/1/2 (TX / RX)- DG36003 G



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 (Note1)	
								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 (Note1)	
								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 (Note1)	
								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

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 802.11a & IEEE 802.11n (20MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	40	5200MHz	44	5220MHz	48	5240MHz

IEEE 802.11n (40MHz)

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

Note:

1. This device is a Dual-band Wireless-N750 Gigabit Router including 2.4GHz b/g/n and 5GHz a/n (3x3) 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. This device uses different transformers: DG36003 G and HN3674CG. These transformers have same specification. The preliminary tests were performed in different transformers, and there was no difference on the test data. Only one data was shown in this test report.
5. The function of the 2.4GHz and 5.8GHz transmitting is measured and makes a test report of the report number: 124335R-RFUSP42V01.
6. This device has USB and Ethernet ports, which can be connected to computer. The receiving function receiving was tested and its test report number is 124335R-RFUSP37V02 under Declaration of Conformity.

1.3. 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_(Adapter: AD82030) Mode 2: Transmit_(Adapter: EXA1004UH)
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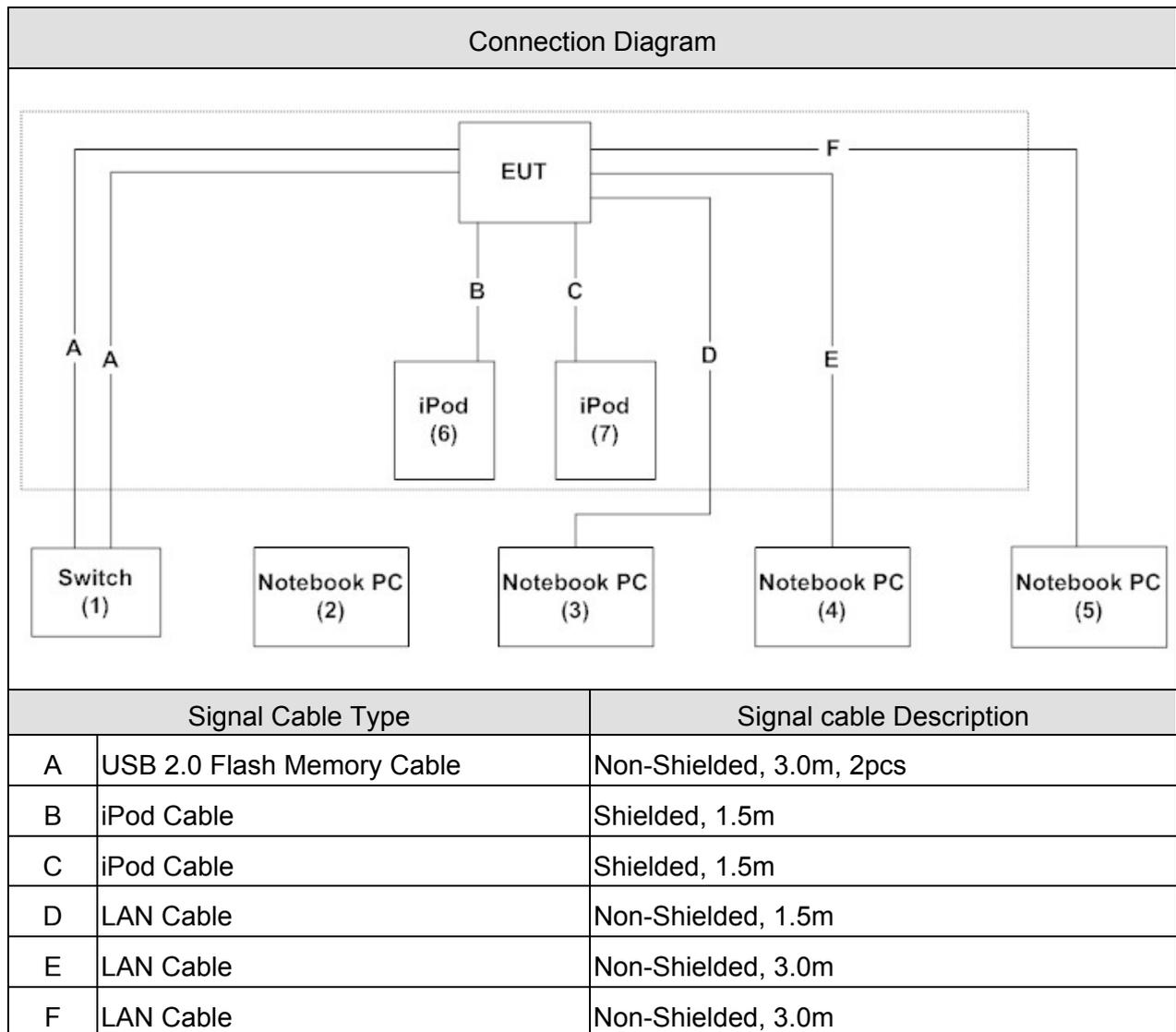
Test Items	Mode	Channel	Antenna	Result
Conducted Emission	11n(40MHz)	38	0+1+2	Complies
99 % & 26dB Bandwidth	a	36/44/48	1	Complies
	11n(20MHz)	36/44/48	0/1/2	Complies
	11n(40MHz)	38/46	0/1/2	Complies
Peak Transmit Output	a	36/44/48	1	Complies
	11n(20MHz)	36/44/48	0+1+2	Complies
	11n(40MHz)	38/46	0+1+2	Complies
Peak Power Spectrum Density	a	36/44/48	1	Complies
	11n(20MHz)	36/44/48	0+1+2	Complies
	11n(40MHz)	38/46	0+1+2	Complies
Power Excursion	a	36/44/48	1	Complies
	11n(20MHz)	36/44/48	0/1/2	Complies
	11n(40MHz)	38/46	0/1/2	Complies
Radiated Emission	a	36/44/48	1	Complies
	11n(20MHz)	36/44/48	0+1+2	Complies
	11n(40MHz)	38/46	0+1+2	Complies
Band Edge	a	36	1	Complies
	11n(20MHz)	36	0+1+2	Complies
	11n(40MHz)	38	0+1+2	Complies
Frequency Stability	a	36/48	1	Complies
	11n(20MHz)	36/48	0/1/2	Complies
	11n(40MHz)	38/46	0/1/2	Complies

1.4. 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 Switch	D-Link	DGS1216T	F360298000076	DoC	Non-Shielded, 1.8m
2 Notebook PC	DELL	PP37L	CD8BNG1	DoC	Non-Shielded, 1.8m
3 Notebook PC	ACER	PAV70	LUSEW0D0371105F E221601	DoC	Non-Shielded, 2.5m a ferrite core bonded
4 Notebook PC	ACER	MS2296	LUSCV02139115033 2C2000	DoC	Non-Shielded, 2.5m a ferrite core bonded
5 Notebook PC	HP	HSTNN-146C	CNU8253S1X	DoC	Non-Shielded, 1.8m
6 iPod	Apple	MC306TA/A	5C938C3ZA1S	DoC	--
7 iPod	Apple	MC306TA/A	5C937OKNA1S	DoC	--

1.5. Configuration of tested System



1.6. EUT Exercise Software

1	Setup the EUT as shown in Section 1.5.
2	Execute the test program "QA_RT3883_AP_V1.0.4.0" 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.

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	FCC PART 15 C 15.407 Conducted Emission	15 - 35	20
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.407 99 % & 26dB Bandwidth	15 - 35	25
Humidity (%RH)		25 - 75	48
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.407 Peal Transmit Power	15 - 35	25
Humidity (%RH)		25 - 75	65
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.407 Peak Power Spectrum	15 - 35	24
Humidity (%RH)		25 - 75	49
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.407 Power Excursion	15 - 35	25
Humidity (%RH)		25 - 75	48
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.407 Radiated Emission	15 - 35	25
Humidity (%RH)		25 - 75	48
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.407 Band Edge	15 - 35	25
Humidity (%RH)		25 - 75	48
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.407 Frequency Stability	15 - 35	25
Humidity (%RH)		25 - 75	48
Barometric pressure (mbar)		860 - 1060	950-1000

Site Description: September 27, 2010 File on
Federal Communications Commission
Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 365520
Accredited by TAF
Accreditation Number: 1313
Effective through: December 27, 2013



Accredited by NVLAP
NVLAP Lab Code: 200347-0
Effective through: September 30, 2012



Site Name: Quietek Corporation

Site Address: No.75-2, 3rd Lin, Wang Ye keng, Yonghxing Tsuen,
Qionglin Shiang, Hsinchu County 307, Taiwan
TEL : 886-3-592-8858 / FAX : 886-3-592-8859
E-Mail : service@quietek.com

2. Conducted Emission

2.1. Test Equipment

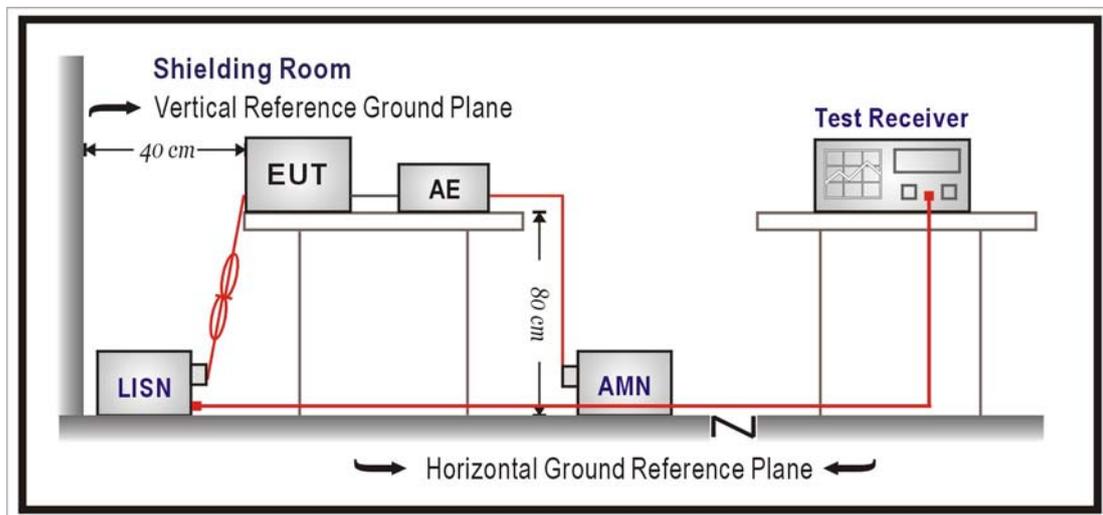
The following test equipments are used during the test:

Conducted Emission / SR2

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2013/02/13
LISN	R&S	ENV216	100092	2012/08/30
Test Receiver	R&S	ESCS 30	825442/014	2012/08/16

Note: 1. 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 C63.4: 2009. 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

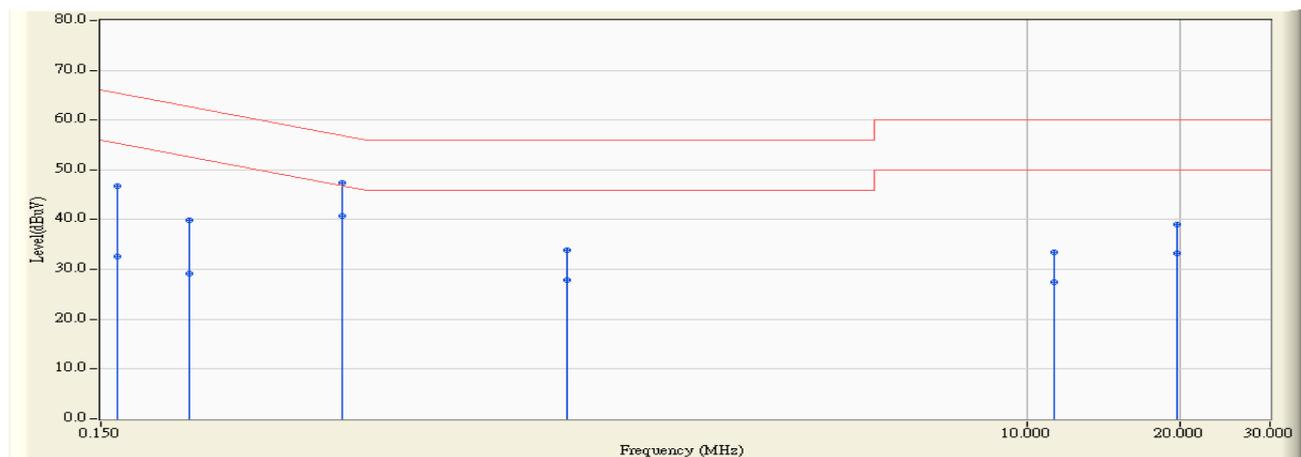
According to FCC Part 15 Subpart C Paragraph 15.207: 2011

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR2	Time : 2012/05/19 - 10:49
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-1_0831 - Line1	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N750 Gigabit Router	Note : DG36003 G_ 5.2G Mode 1: Transmit_(Adapter: AD82030)

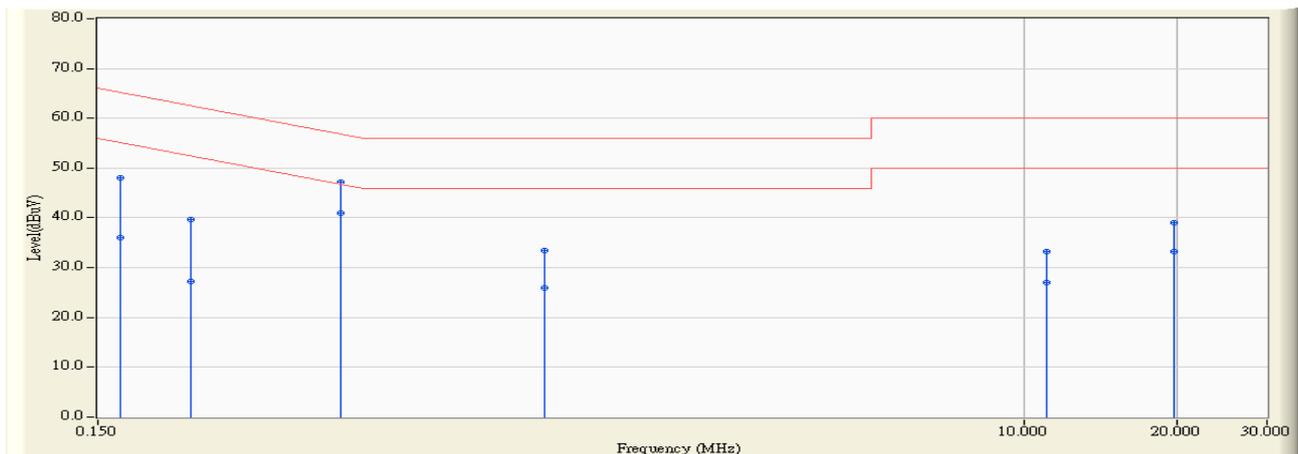


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.162	9.631	37.140	46.771	-18.605	65.375	QUASPEAK
2	0.162	9.631	22.980	32.611	-22.765	55.375	AVERAGE
3	0.224	9.634	30.320	39.954	-22.707	62.661	QUASPEAK
4	0.224	9.634	19.540	29.174	-23.487	52.661	AVERAGE
5	0.447	9.648	37.680	47.328	-9.605	56.933	QUASPEAK
6	*	9.648	31.200	40.848	-6.085	46.933	AVERAGE
7	1.240	9.734	24.240	33.974	-22.026	56.000	QUASPEAK
8	1.240	9.734	18.060	27.794	-18.206	46.000	AVERAGE
9	11.267	9.941	23.560	33.501	-26.499	60.000	QUASPEAK
10	11.267	9.941	17.480	27.421	-22.579	50.000	AVERAGE
11	19.705	10.109	28.900	39.009	-20.991	60.000	QUASPEAK
12	19.705	10.109	23.140	33.249	-16.751	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 : 2012/05/19 - 10:52
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-1_0831 - Line2	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N750 Gigabit Router	Note : DG36003 G_ 5.2G Mode 1: Transmit_(Adapter: AD82030)

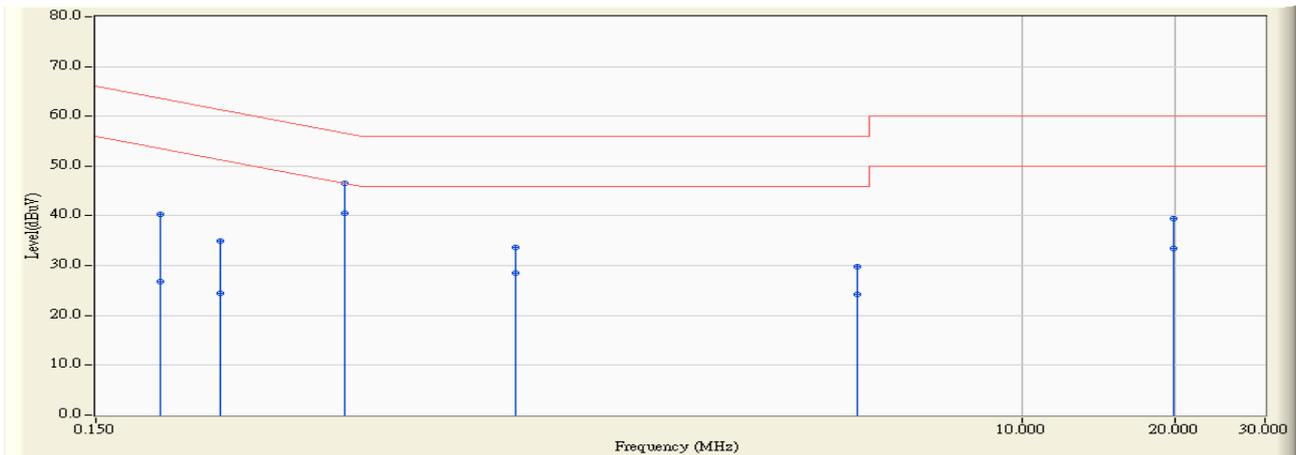


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.166	9.641	38.400	48.041	-17.136	65.177	QUASPEAK
2	0.166	9.641	26.400	36.041	-19.136	55.177	AVERAGE
3	0.228	9.644	30.060	39.704	-22.813	62.518	QUASPEAK
4	0.228	9.644	17.640	27.284	-25.233	52.518	AVERAGE
5	0.451	9.657	37.580	47.237	-9.624	56.861	QUASPEAK
6	*	9.657	31.340	40.997	-5.864	46.861	AVERAGE
7	1.138	9.730	23.660	33.390	-22.610	56.000	QUASPEAK
8	1.138	9.730	16.220	25.950	-20.050	46.000	AVERAGE
9	11.017	9.981	23.240	33.221	-26.779	60.000	QUASPEAK
10	11.017	9.981	16.940	26.921	-23.079	50.000	AVERAGE
11	19.736	10.265	28.760	39.025	-20.975	60.000	QUASPEAK
12	19.736	10.265	23.020	33.285	-16.715	50.000	AVERAGE

Note:

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

Site : SR2	Time : 2012/05/19 - 10:03
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-1_0831 - Line1	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N750 Gigabit Router	Note : HN3674CG_ 5.2G Mode 1: Transmit_(Adapter: AD82030)

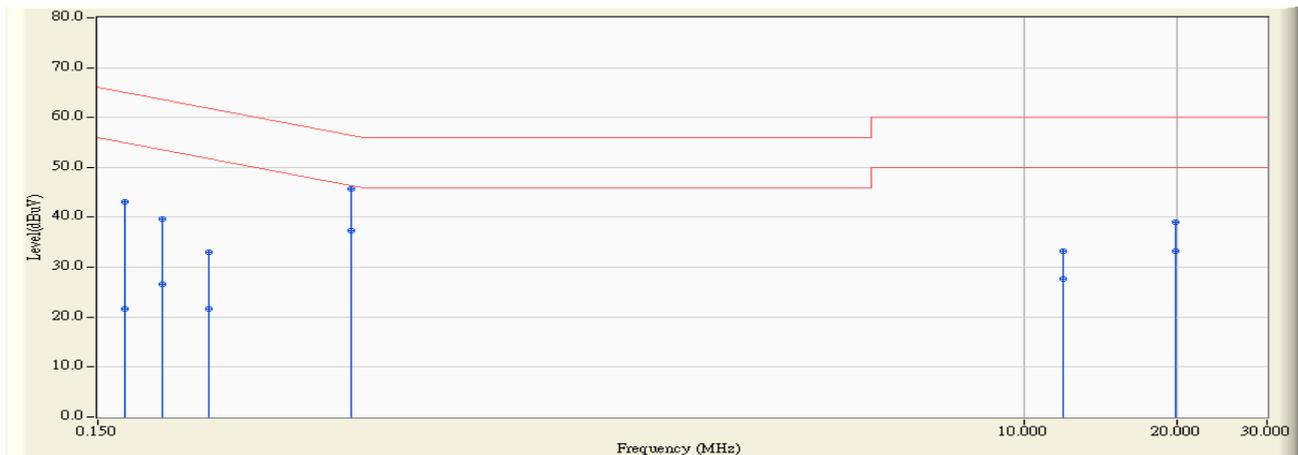


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.201	9.633	30.640	40.273	-23.305	63.578	QUASPEAK
2	0.201	9.633	17.260	26.893	-26.685	53.578	AVERAGE
3	0.263	9.636	25.420	35.056	-26.271	61.327	QUASPEAK
4	0.263	9.636	14.900	24.536	-26.791	51.327	AVERAGE
5	0.463	9.649	36.800	46.449	-10.199	56.648	QUASPEAK
6	*	9.649	30.800	40.449	-6.199	46.648	AVERAGE
7	1.005	9.720	23.940	33.660	-22.340	56.000	QUASPEAK
8	1.005	9.720	18.800	28.520	-17.480	46.000	AVERAGE
9	4.740	9.842	20.020	29.863	-26.137	56.000	QUASPEAK
10	4.740	9.842	14.420	24.263	-21.737	46.000	AVERAGE
11	19.826	10.109	29.260	39.369	-20.631	60.000	QUASPEAK
12	19.826	10.109	23.440	33.549	-16.451	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 : 2012/05/19 - 10:06
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-1_0831 - Line2	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N750 Gigabit Router	Note : HN3674CG_ 5.2G Mode 1: Transmit_(Adapter: AD82030)

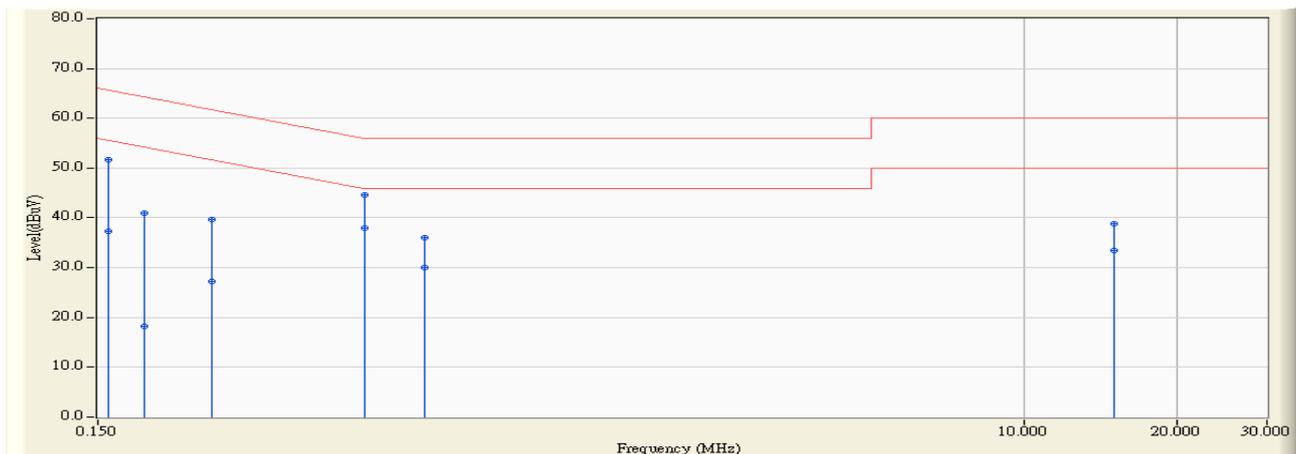


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.170	9.641	33.560	43.201	-21.782	64.983	QUASPEAK
2	0.170	9.641	12.120	21.761	-33.222	54.983	AVERAGE
3	0.201	9.643	30.080	39.723	-23.855	63.578	QUASPEAK
4	0.201	9.643	16.860	26.503	-27.075	53.578	AVERAGE
5	0.248	9.646	23.380	33.026	-28.810	61.835	QUASPEAK
6	0.248	9.646	12.120	21.766	-30.070	51.835	AVERAGE
7	0.474	9.658	36.080	45.738	-10.701	56.440	QUASPEAK
8	*	9.658	27.760	37.418	-9.021	46.440	AVERAGE
9	11.884	10.024	23.300	33.324	-26.676	60.000	QUASPEAK
10	11.884	10.024	17.540	27.564	-22.436	50.000	AVERAGE
11	19.841	10.267	28.820	39.087	-20.913	60.000	QUASPEAK
12	19.841	10.267	22.960	33.227	-16.773	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 : 2012/05/19 - 11:11
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-1_0831 - Line1	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N750 Gigabit Router	Note : DG36003 G_ 5.2G Mode 2: Transmit_(Adapter: EXA1004UH)

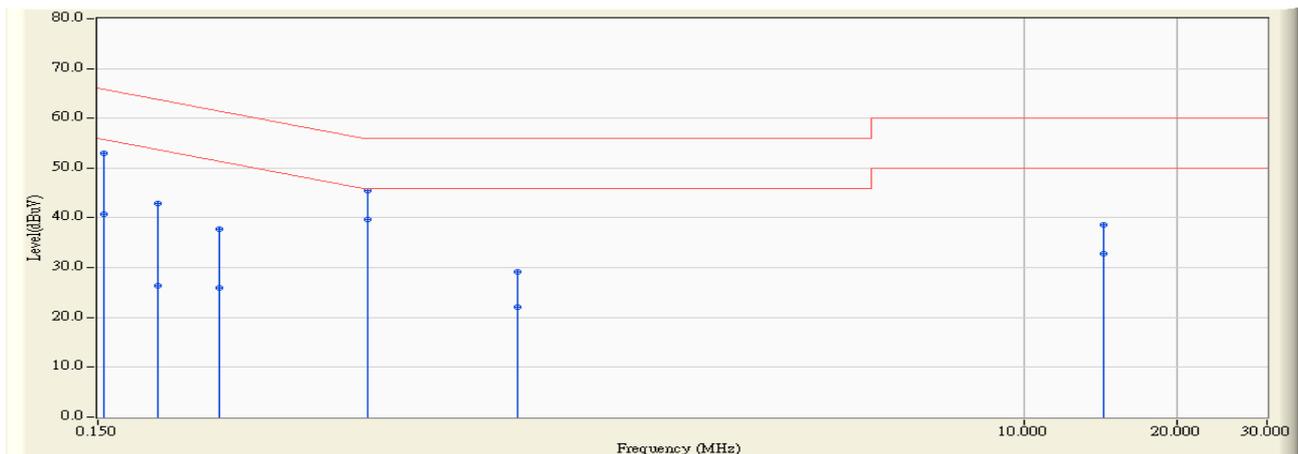


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.158	9.630	42.160	51.790	-13.788	65.578	QUASPEAK
2	0.158	9.630	27.700	37.330	-18.248	55.578	AVERAGE
3	0.185	9.632	31.340	40.972	-23.279	64.251	QUASPEAK
4	0.185	9.632	8.700	18.332	-35.919	54.251	AVERAGE
5	0.252	9.636	29.940	39.576	-22.130	61.705	QUASPEAK
6	0.252	9.636	17.640	27.276	-24.430	51.705	AVERAGE
7	0.502	9.653	34.900	44.552	-11.448	56.000	QUASPEAK
8	*	9.653	28.220	37.872	-8.128	46.000	AVERAGE
9	0.658	9.673	26.420	36.093	-19.907	56.000	QUASPEAK
10	0.658	9.673	20.340	30.013	-15.987	46.000	AVERAGE
11	15.033	10.090	28.700	38.790	-21.210	60.000	QUASPEAK
12	15.033	10.090	23.420	33.510	-16.490	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 : 2012/05/19 - 11:14
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-1_0831 - Line2	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N750 Gigabit Router	Note : DG36003 G_ 5.2G Mode 2: Transmit_(Adapter: EXA1004UH)

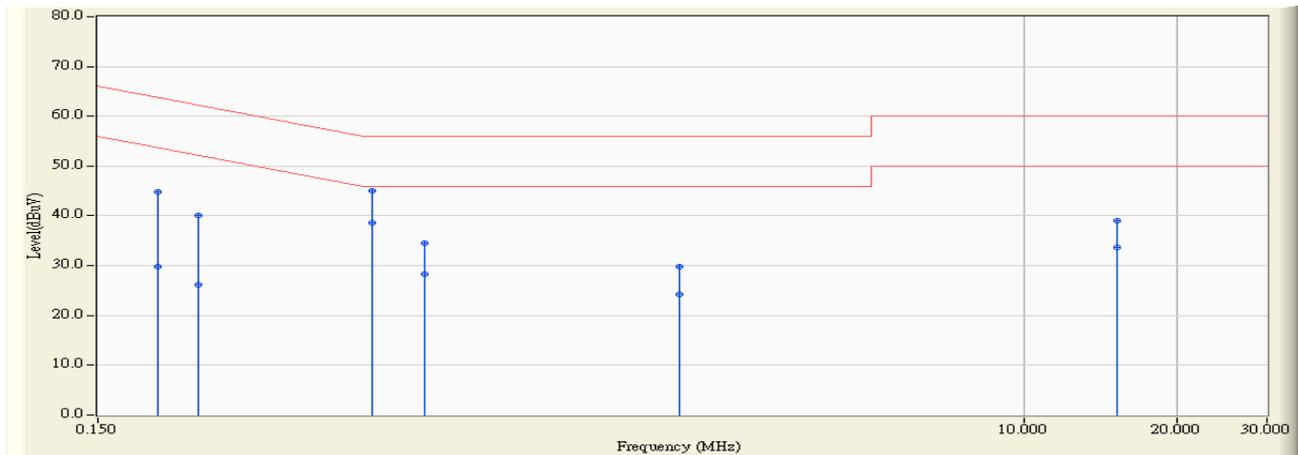


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.154	9.639	43.400	53.039	-12.748	65.786	QUASPEAK
2	0.154	9.639	31.120	40.759	-15.028	55.786	AVERAGE
3	0.197	9.643	33.340	42.983	-20.759	63.741	QUASPEAK
4	0.197	9.643	16.840	26.483	-27.259	53.741	AVERAGE
5	0.259	9.646	28.100	37.746	-23.705	61.451	QUASPEAK
6	0.259	9.646	16.240	25.886	-25.565	51.451	AVERAGE
7	0.509	9.661	35.780	45.441	-10.559	56.000	QUASPEAK
8	*	9.661	30.020	39.681	-6.319	46.000	AVERAGE
9	1.005	9.720	19.440	29.160	-26.840	56.000	QUASPEAK
10	1.005	9.720	12.400	22.120	-23.880	46.000	AVERAGE
11	14.298	10.145	28.540	38.685	-21.315	60.000	QUASPEAK
12	14.298	10.145	22.720	32.865	-17.135	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 : 2012/05/19 - 10:26
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-1_0831 - Line1	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N750 Gigabit Router	Note : HN3674CG_ 5.2G Mode 2: Transmit_(Adapter: EXA1004UH)

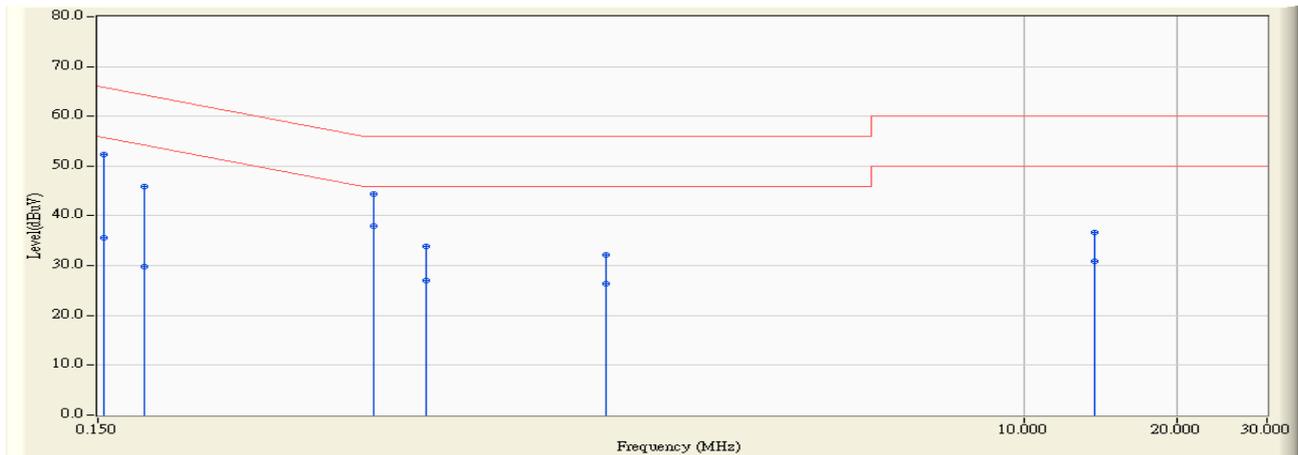


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.197	9.633	35.140	44.773	-18.969	63.741	QUASPEAK
2	0.197	9.633	20.280	29.913	-23.829	53.741	AVERAGE
3	0.236	9.635	30.380	40.015	-22.223	62.238	QUASPEAK
4	0.236	9.635	16.480	26.115	-26.123	52.238	AVERAGE
5	0.521	9.654	35.320	44.974	-11.026	56.000	QUASPEAK
6	*	9.654	29.000	38.654	-7.346	46.000	AVERAGE
7	0.662	9.673	24.920	34.594	-21.406	56.000	QUASPEAK
8	0.662	9.673	18.620	28.294	-17.706	46.000	AVERAGE
9	2.095	9.782	20.020	29.802	-26.198	56.000	QUASPEAK
10	2.095	9.782	14.400	24.182	-21.818	46.000	AVERAGE
11	15.255	10.091	28.880	38.971	-21.029	60.000	QUASPEAK
12	15.255	10.091	23.560	33.651	-16.349	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 : 2012/05/19 - 10:29
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-1_0831 - Line2	Power : AC 120V/60Hz
EUT : Dual-band Wireless-N750 Gigabit Router	Note : HN3674CG_ 5.2G Mode 2: Transmit_(Adapter: EXA1004UH)



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.154	9.639	42.760	52.399	-13.388	65.786	QUASPEAK
2	0.154	9.639	25.940	35.579	-20.208	55.786	AVERAGE
3	0.185	9.642	36.240	45.882	-18.369	64.251	QUASPEAK
4	0.185	9.642	20.120	29.762	-24.489	54.251	AVERAGE
5	0.525	9.663	34.640	44.303	-11.697	56.000	QUASPEAK
6	* 0.525	9.663	28.380	38.043	-7.957	46.000	AVERAGE
7	0.666	9.680	24.140	33.820	-22.180	56.000	QUASPEAK
8	0.666	9.680	17.400	27.080	-18.920	46.000	AVERAGE
9	1.502	9.755	22.320	32.075	-23.925	56.000	QUASPEAK
10	1.502	9.755	16.640	26.395	-19.605	46.000	AVERAGE
11	13.752	10.118	26.660	36.778	-23.222	60.000	QUASPEAK
12	13.752	10.118	20.720	30.838	-19.162	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

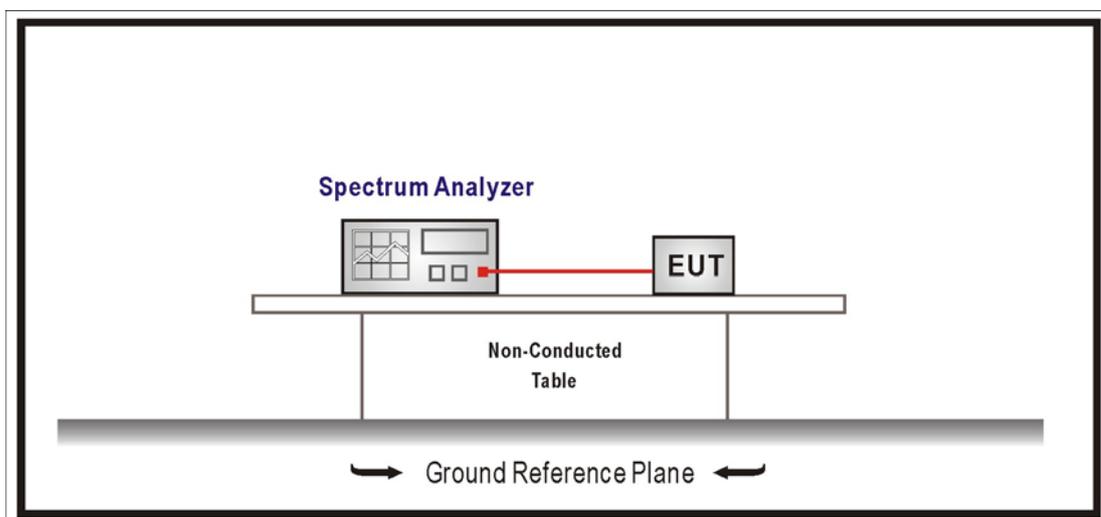
The following test equipments are used during the radiated emission tests:

99% & 26dB Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2013/02/19

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

3.2. Test Setup



3.3. Limits

No Required

3.4. Test Procedure

The EUT was tested according to U-NII test procedure of March 2012 KDB 789033. Set RBW 1% of the emission bandwidth, VBW equal to 3 times the RBW.

3.5. Uncertainty

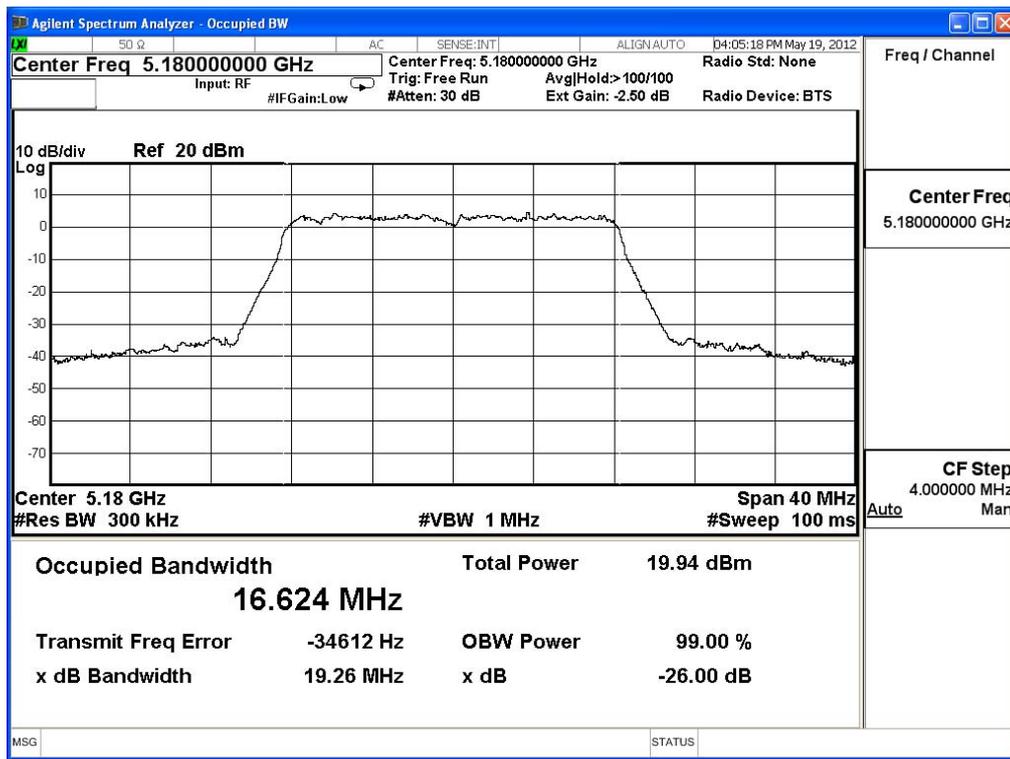
The measurement uncertainty is defined as $\pm 150\text{Hz}$

3.6. Test Result

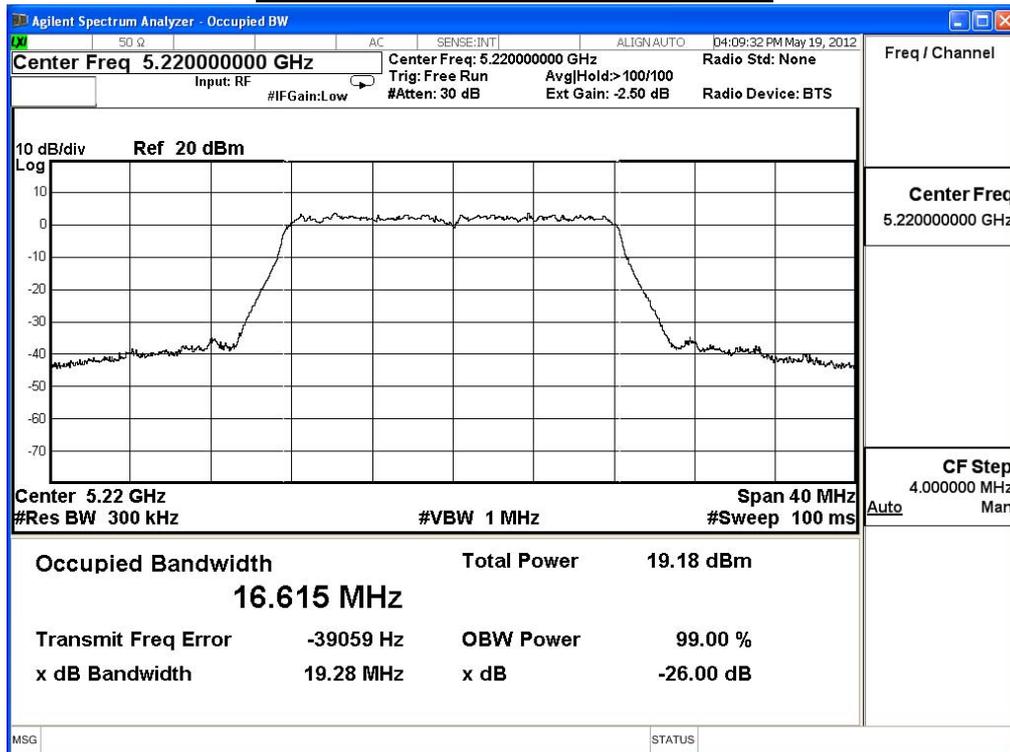
Product	Dual-band Wireless-N750 Gigabit Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit_ (Adapter: AD82030)		
Date of Test	2012/05/21	Test Site	SR7

802.11a					
Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Required Limit (MHz)	Result
36	5180	19.260	16.624	--	NA
44	5220	19.280	16.615	--	NA
48	5240	19.250	16.615	--	NA

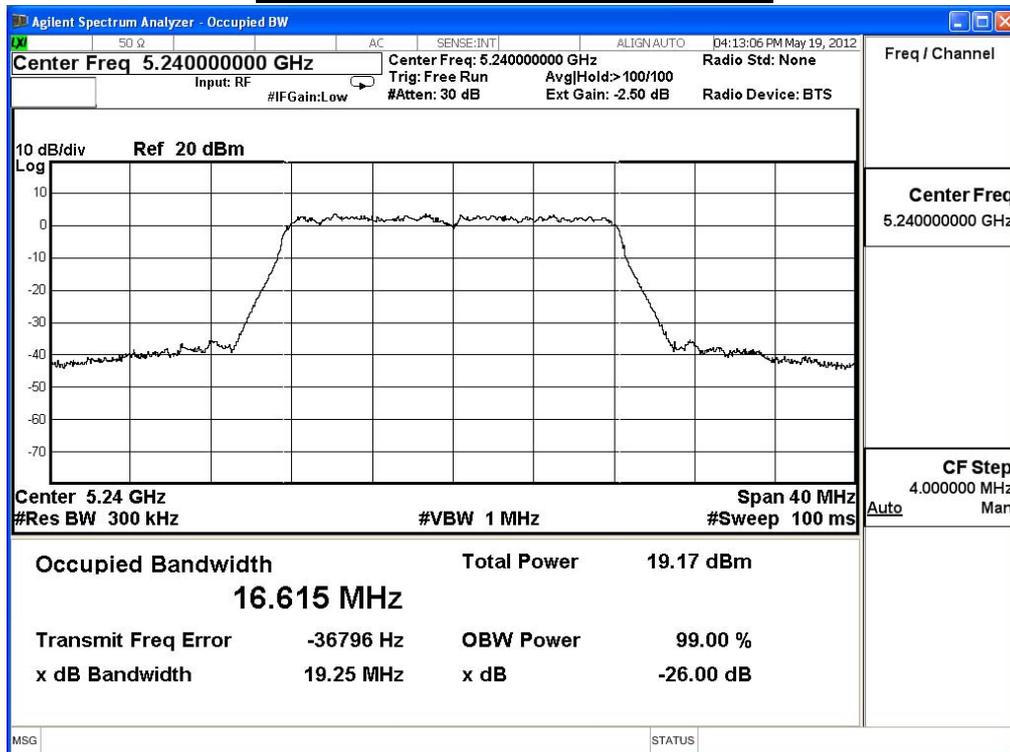
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



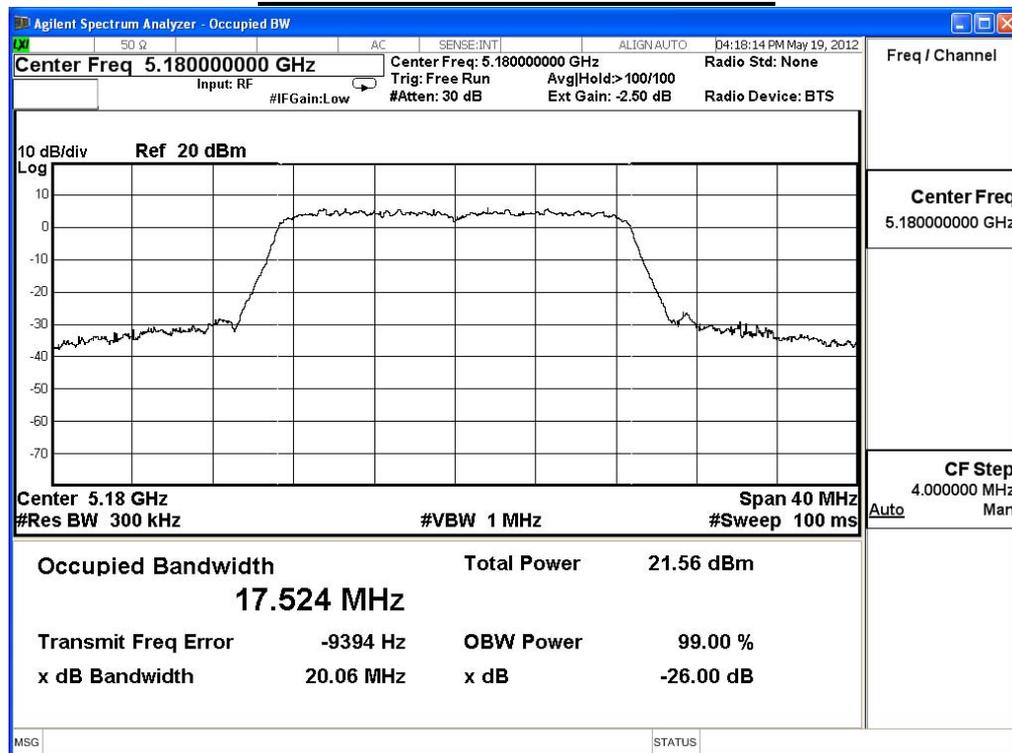
99% & 26dB Bandwidth – Channel 48



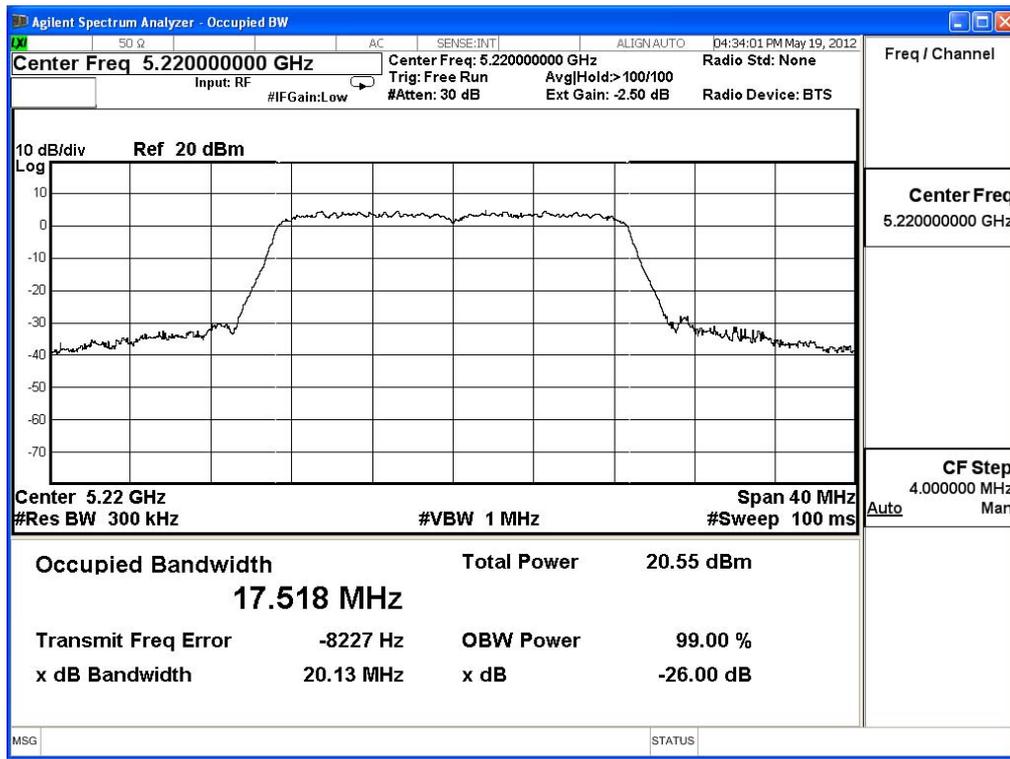
Product	Dual-band Wireless-N750 Gigabit Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit (Adapter: AD82030)		
Date of Test	2012/05/21	Test Site	SR7

802.11n_20M(ANT 0)					
Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Required Limit (MHz)	Result
36	5180	20.060	17.524	--	NA
44	5220	20.130	17.518	--	NA
48	5240	20.110	17.515	--	NA

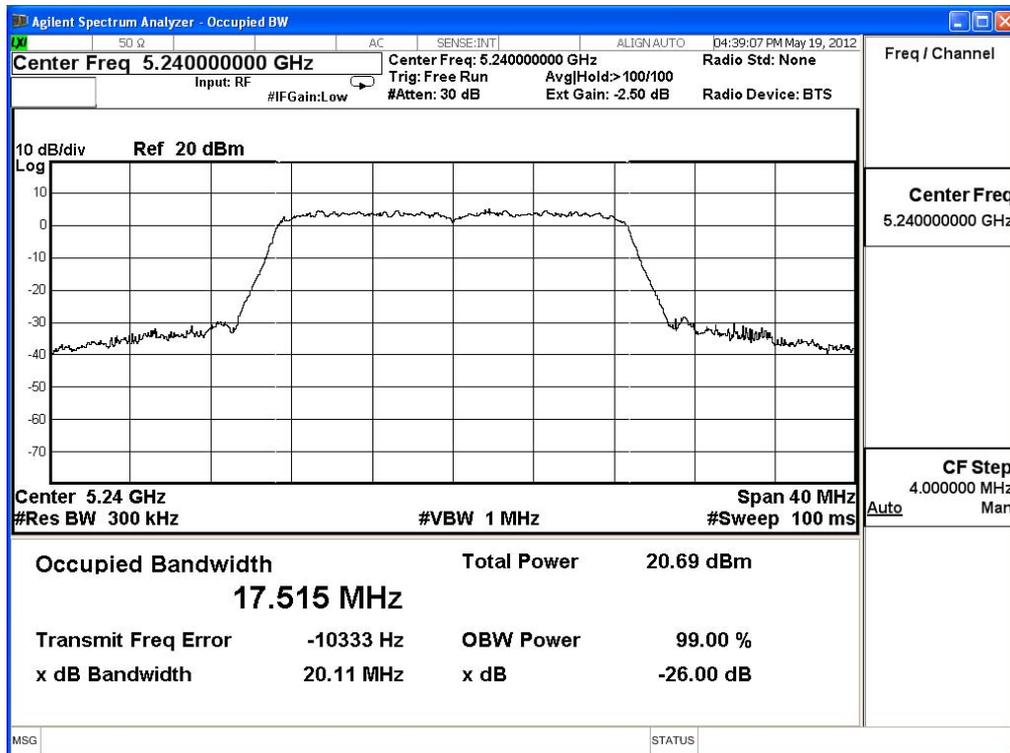
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

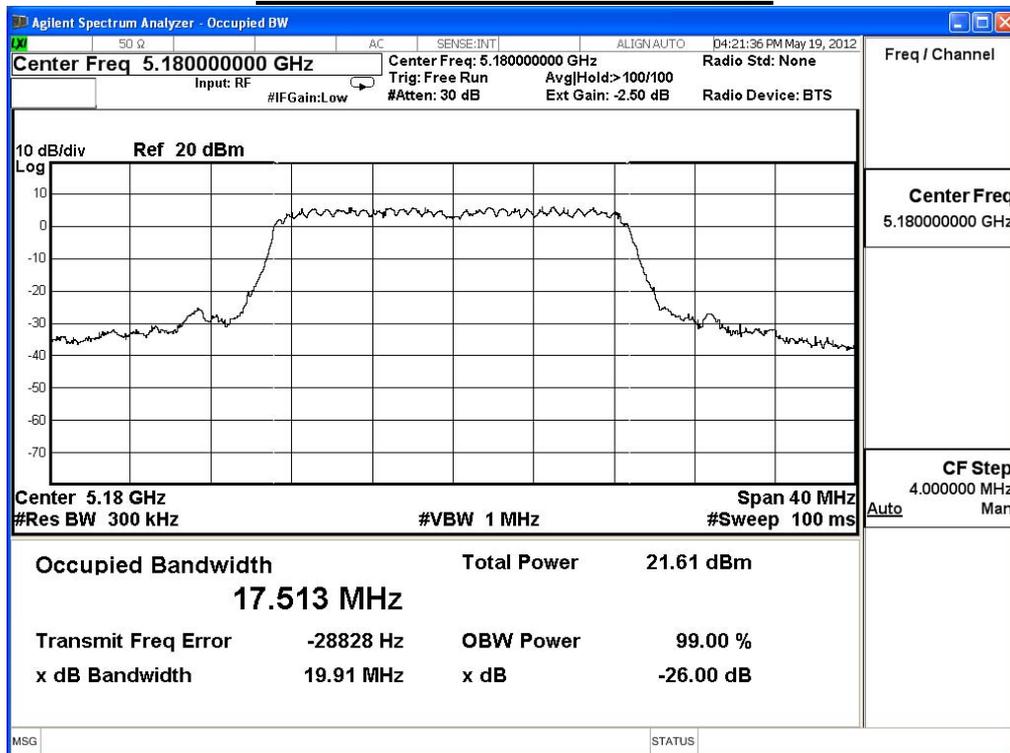


Product	Dual-band Wireless-N750 Gigabit Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit (Adapter: AD82030)		
Date of Test	2012/05/21	Test Site	SR7

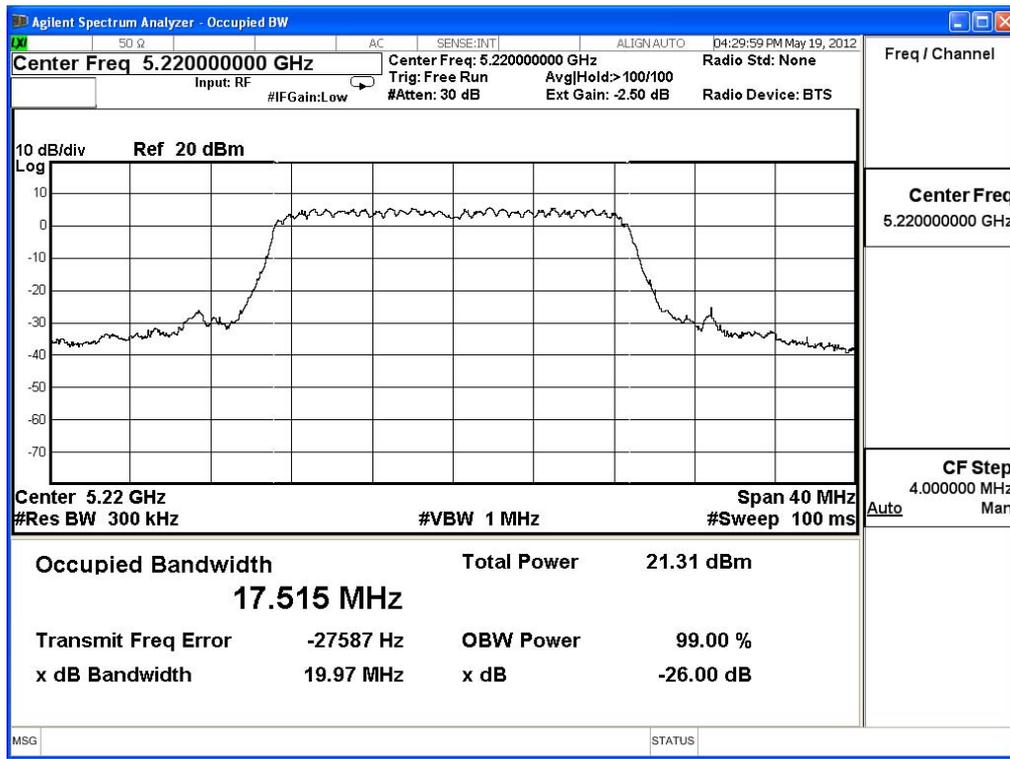
802.11n_20M(ANT 1)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Required Limit (MHz)	Result
36	5180	19.910	17.513	--	NA
44	5220	19.970	17.515	--	NA
48	5240	19.880	17.508	--	NA

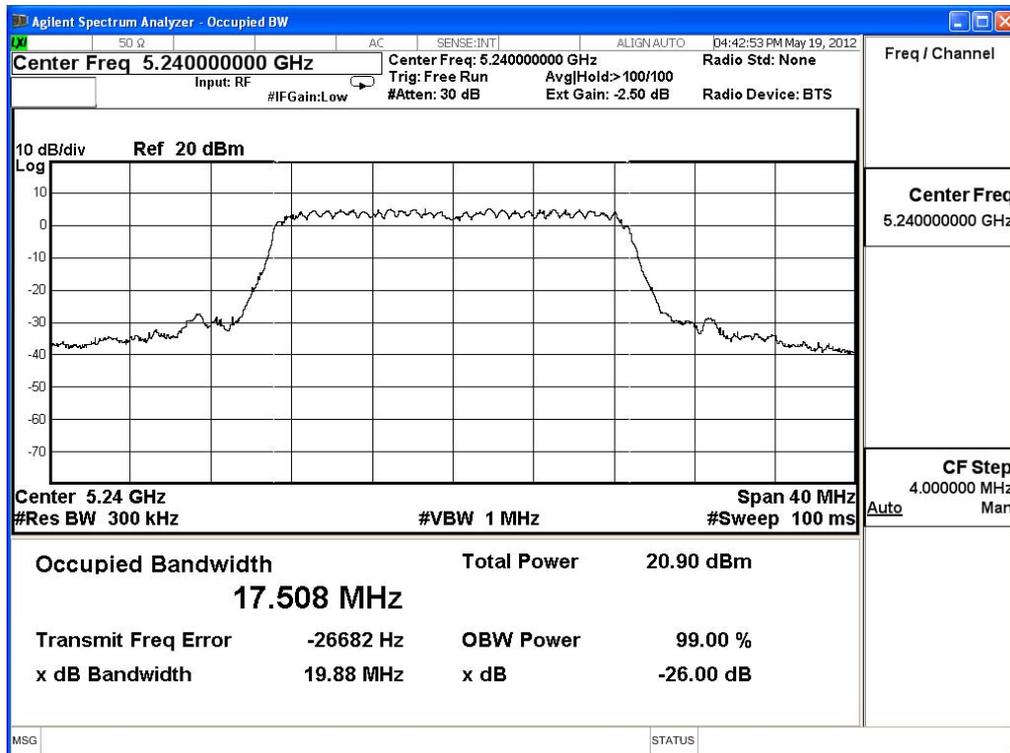
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

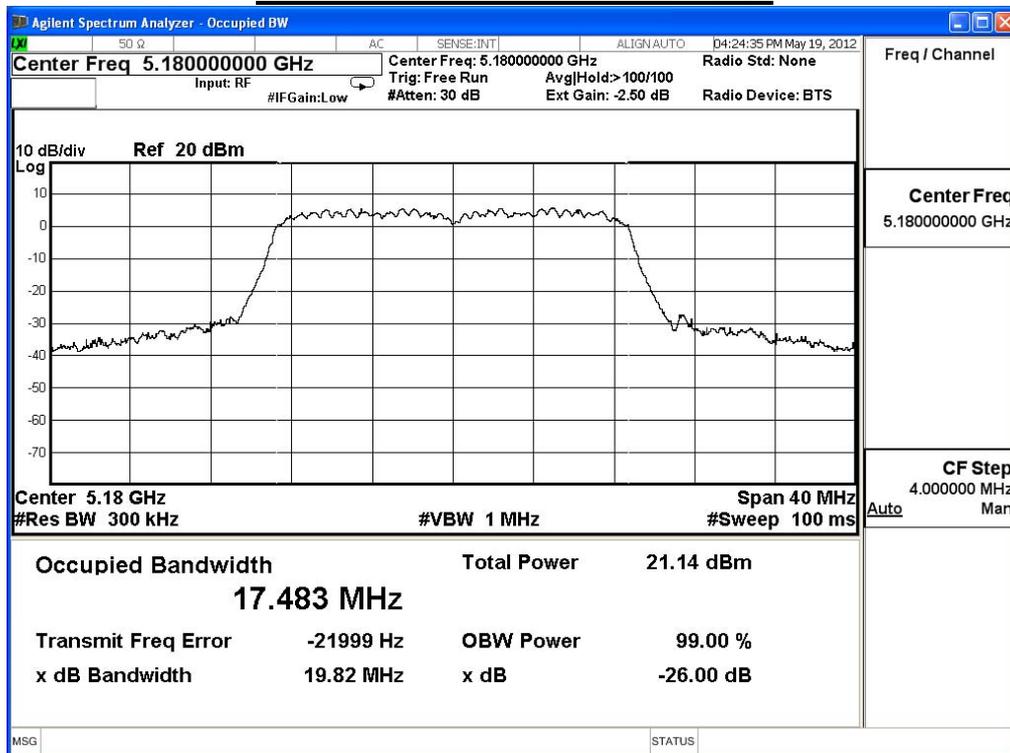


Product	Dual-band Wireless-N750 Gigabit Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit (Adapter: AD82030)		
Date of Test	2012/05/21	Test Site	SR7

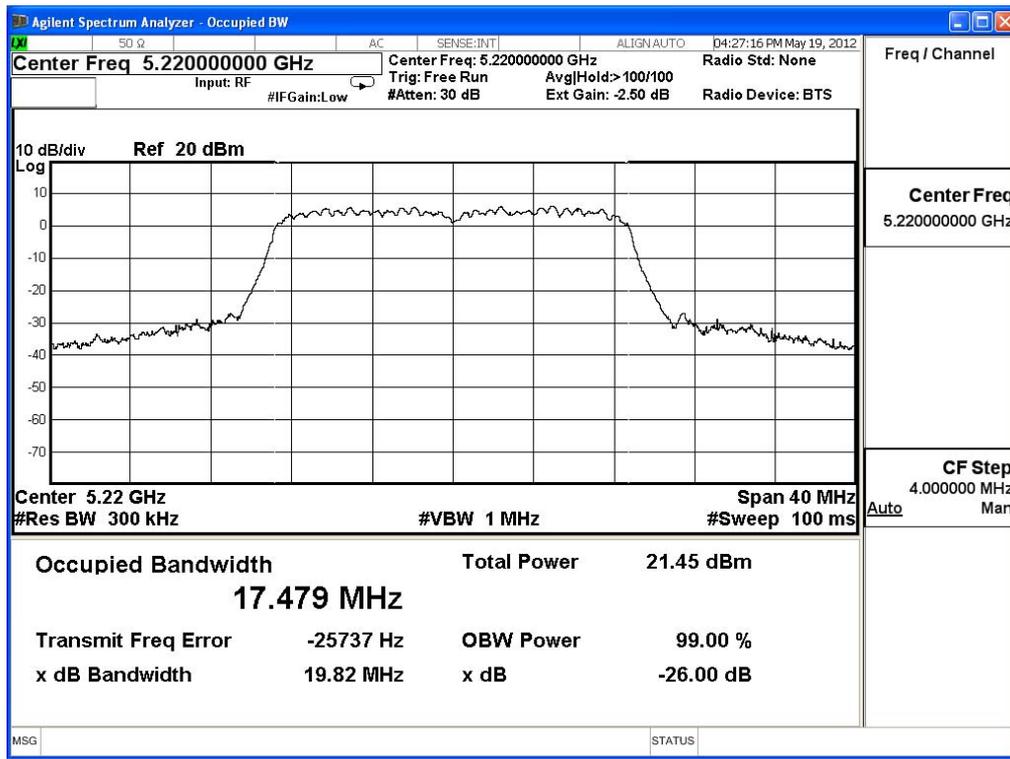
802.11n_20M(ANT 2)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Required Limit (MHz)	Result
36	5180	19.820	17.483	--	NA
44	5220	19.820	17.479	--	NA
48	5240	19.850	17.491	--	NA

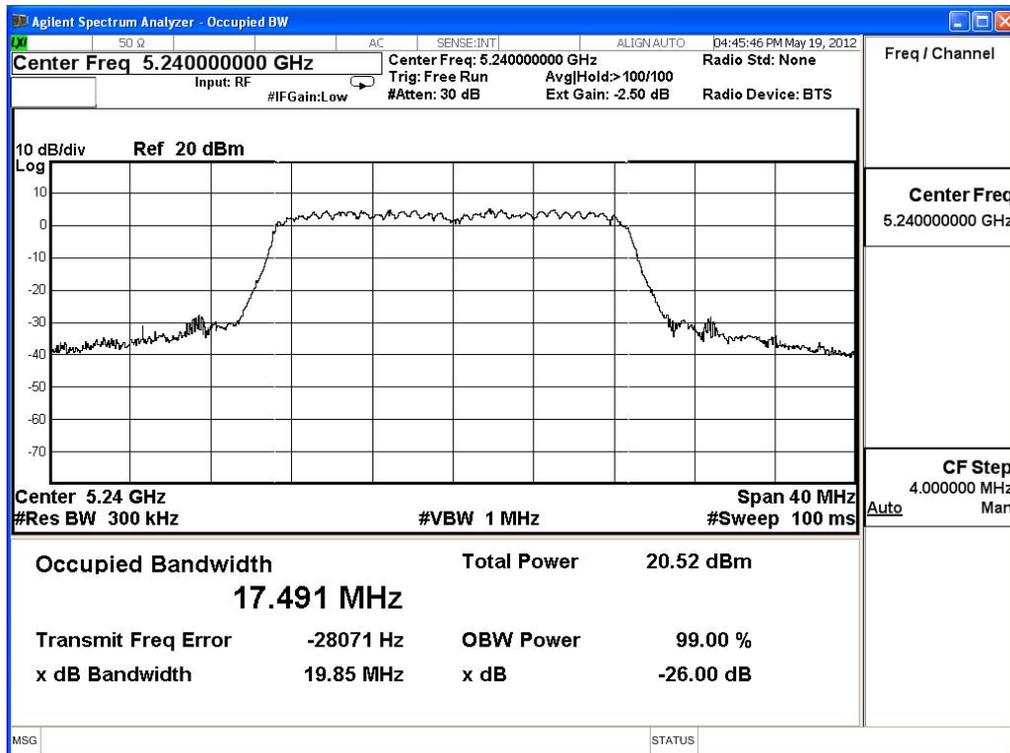
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

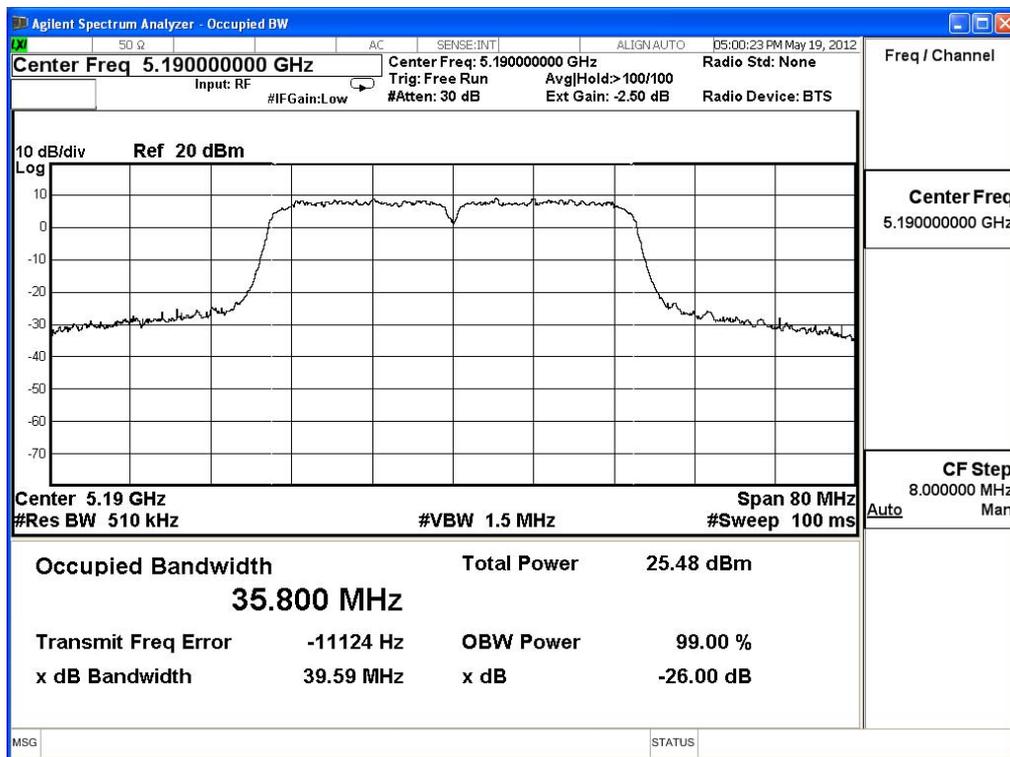


Product	Dual-band Wireless-N750 Gigabit Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit (Adapter: AD82030)		
Date of Test	2012/05/21	Test Site	SR7

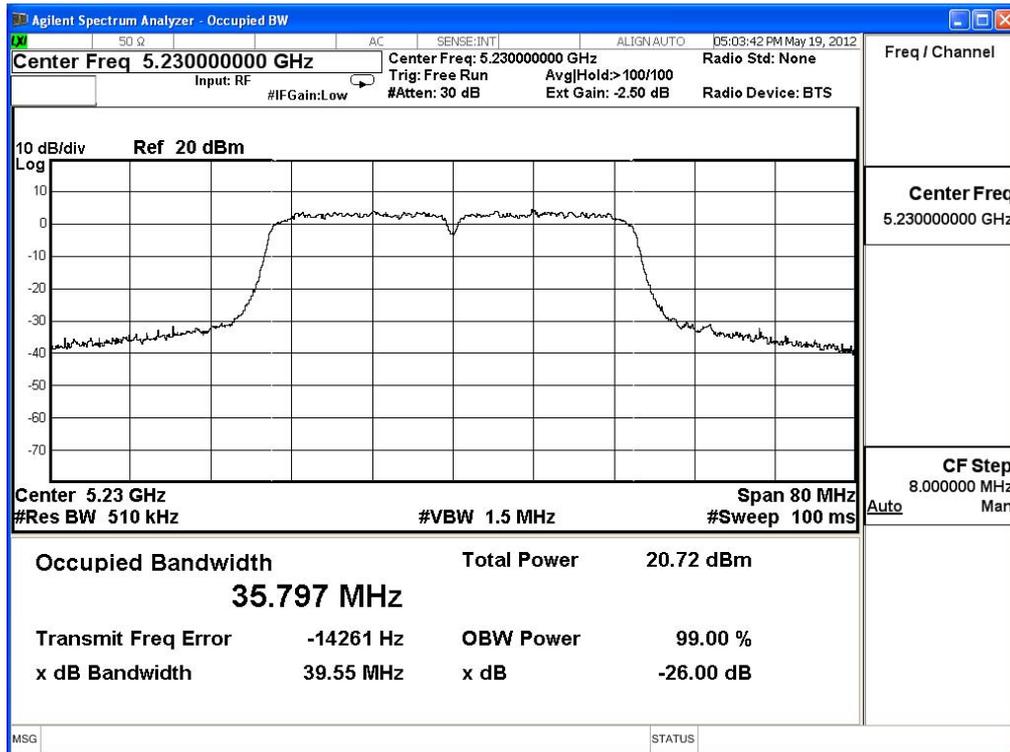
802.11n_40M(ANT 0)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Required Limit (MHz)	Result
38	5190	39.590	35.800	--	NA
46	5230	39.550	35.797	--	NA

99% & 26dB Bandwidth – Channel 38



99% & 26dB Bandwidth – Channel 46

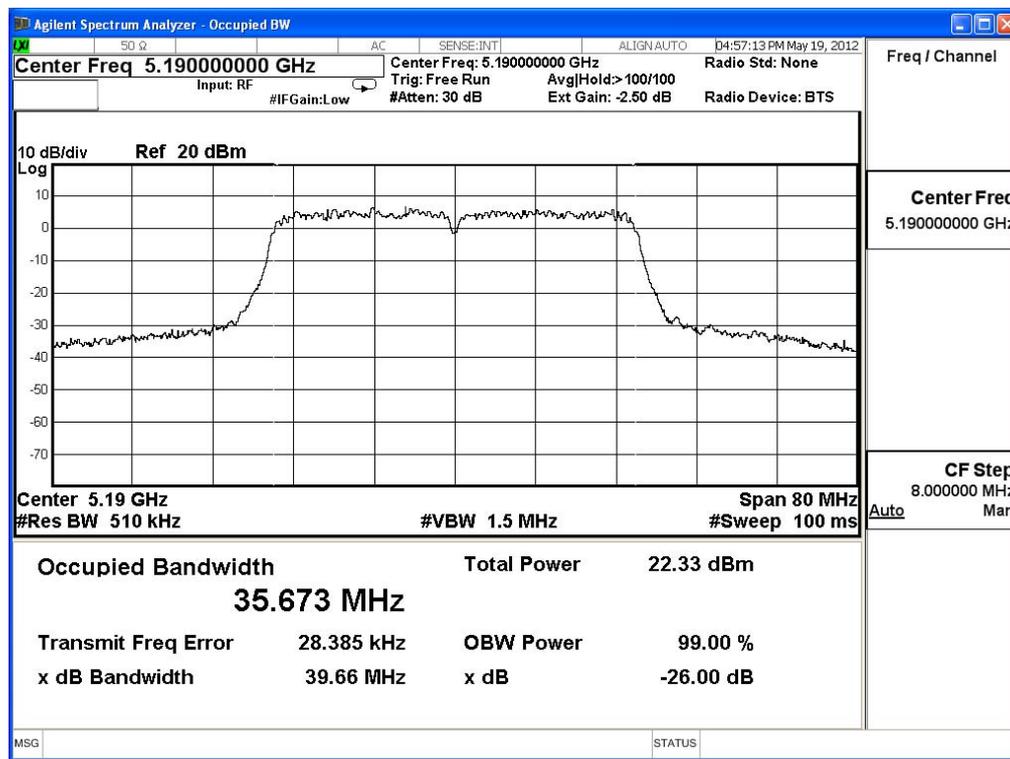


Product	Dual-band Wireless-N750 Gigabit Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit (Adapter: AD82030)		
Date of Test	2012/05/21	Test Site	SR7

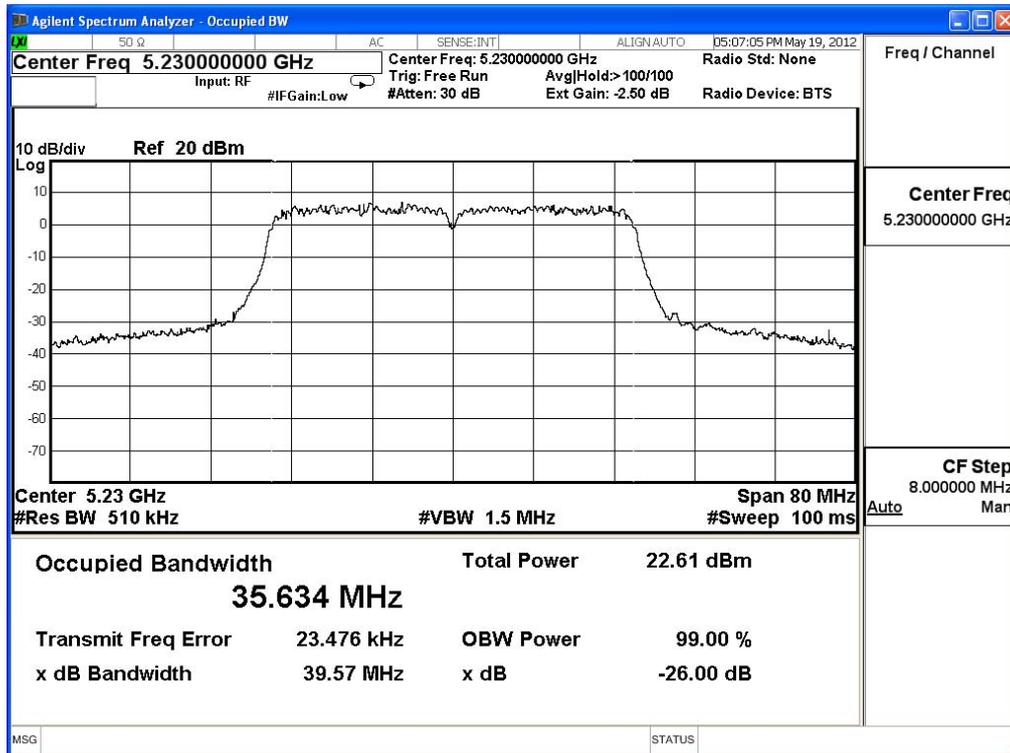
802.11n_40M(ANT 1)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Required Limit (MHz)	Result
38	5190	39.660	35.673	--	NA
46	5230	39.570	35.634	--	NA

99% & 26dB Bandwidth – Channel 38



99% & 26dB Bandwidth – Channel 46

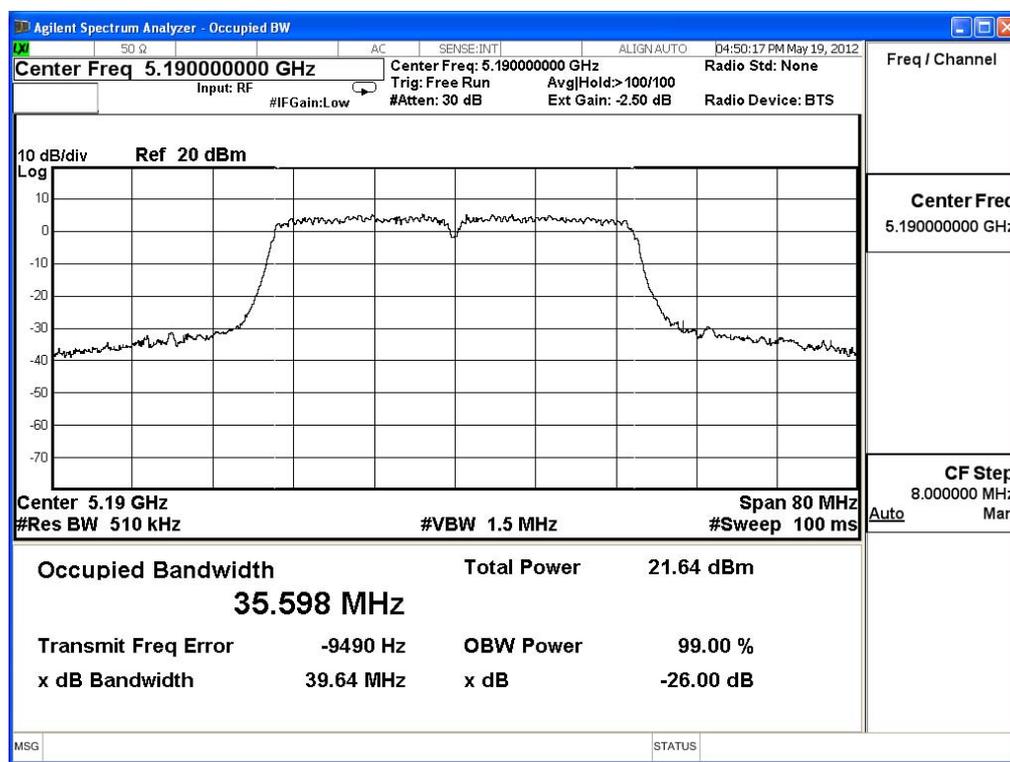


Product	Dual-band Wireless-N750 Gigabit Router		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit (Adapter: AD82030)		
Date of Test	2012/05/21	Test Site	SR7

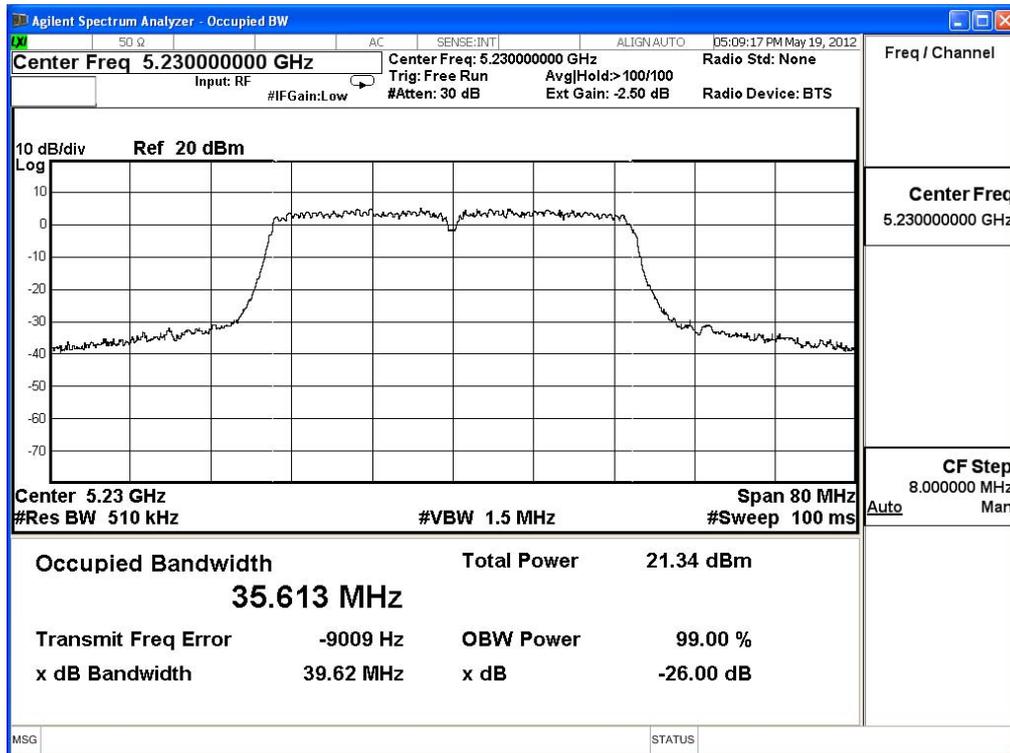
802.11n_40M(ANT 2)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Required Limit (MHz)	Result
38	5190	39.640	35.598	--	NA
46	5230	39.620	35.613	--	NA

99% & 26dB Bandwidth – Channel 38



99% & 26dB Bandwidth – Channel 46



4. Peak Transmit Output

4.1. Test Equipment

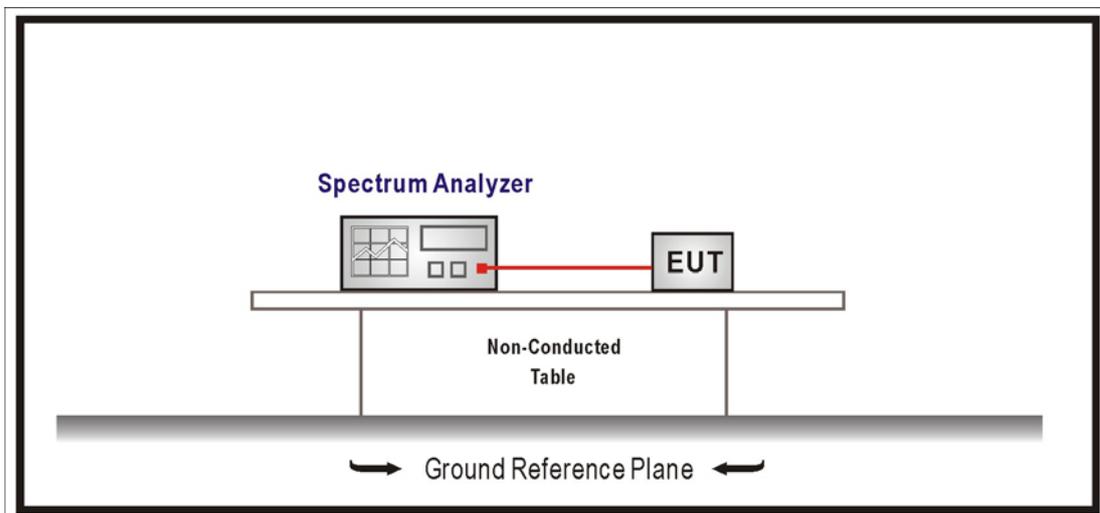
The following test equipments are used during the radiated emission tests:

Peak Transmit Output / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2013/02/19

Note: 1. 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 50 mW or $4 \text{ dBm} + 10\log B$, where B is the 26dB emission bandwidth in MHz. 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 or $11 \text{ dBm} + 10\log B$, where B is the 26dB emission bandwidth in MHz. 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 5.725-5.825 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 1W or $17 \text{ dBm} + 10\log B$, where B is the 26dB emission bandwidth in MHz. 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 C63.4, 2009; tested to U-NII test procedure of March 2012 KDB 789033 for compliance to FCC 47CFR Subpart E requirements. The Method SA-1 of the Maximum conducted output power was used.

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

4.5. Uncertainty

The measurement uncertainty is defined as $\pm 1.27 \text{ dB}$

4.6. Test Result

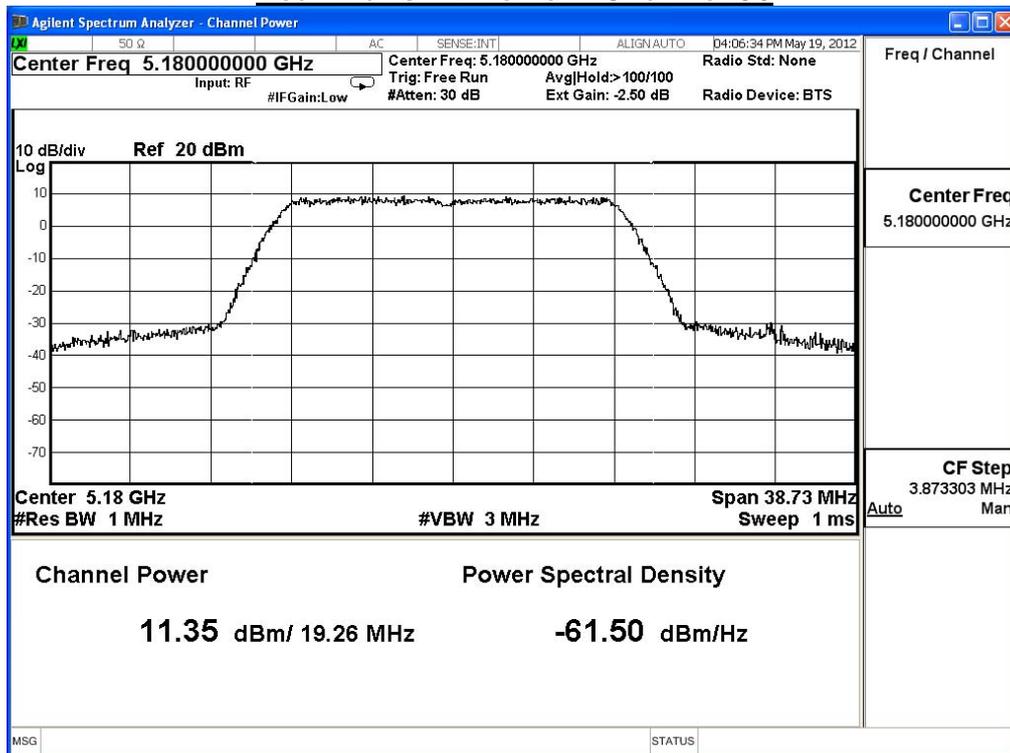
Product	Dual-band Wireless-N750 Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_(Adapter: AD82030)		
Date of Test	2012/05/21	Test Site	SR7

802.11a						
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit		Result
				Fixed Limit (dBm)	4+10logB Limit (dBm)	
36	5180	19.260	11.350	≤17	≤ 16.85	Pass
44	5220	19.280	10.630	≤17	≤ 16.85	Pass
48	5240	19.250	10.720	≤17	≤ 16.85	Pass

The worst emission of data rate is 6 Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
36	5180	11.35	11.32	11.34	11.31	11.30	11.29	11.28	1 Watt≤17dBm
44	5220	10.63	--	--	--	--	--	--	1 Watt≤17dBm
48	5240	10.72	--	--	--	--	--	--	1 Watt≤17dBm

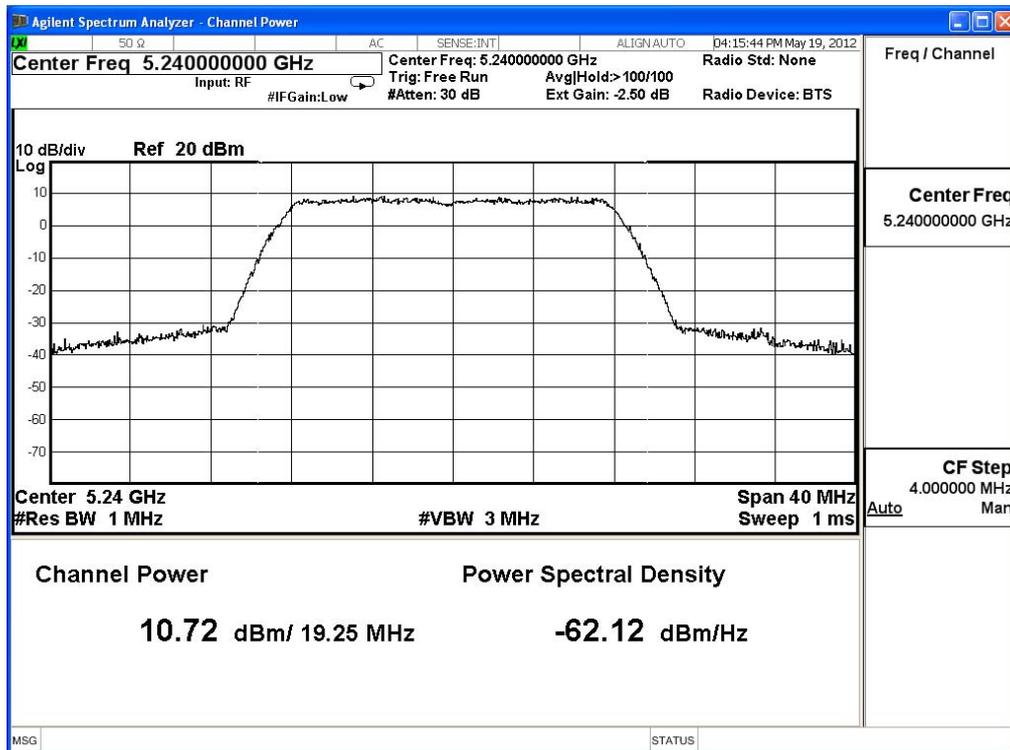
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



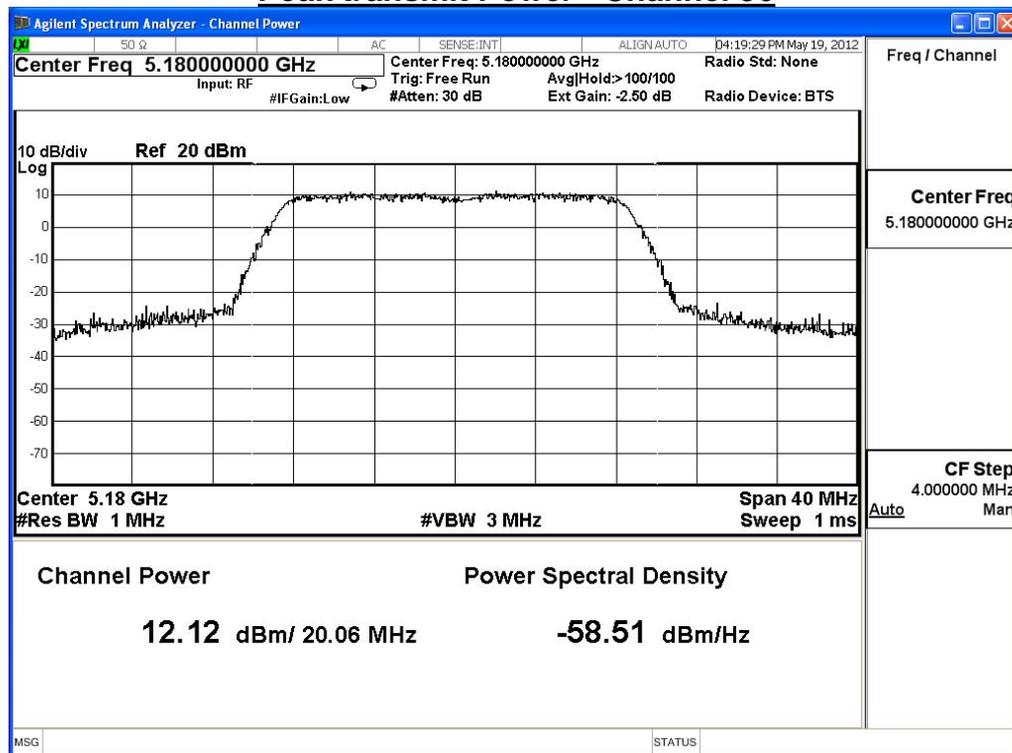
Product	Dual-band Wireless-N750 Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_(Adapter: AD82030)		
Date of Test	2012/05/21	Test Site	SR7

IEEE 802.11n(20MHz)_ANT 0						
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit		Result
				Fixed Limit (dBm)	4+10logB Limit (dBm)	
36	5180	20.060	12.120	≤17	≤17.02	Pass
44	5220	20.130	12.030	≤17	≤17.04	Pass
48	5240	20.110	12.090	≤17	≤ 17.04	Pass

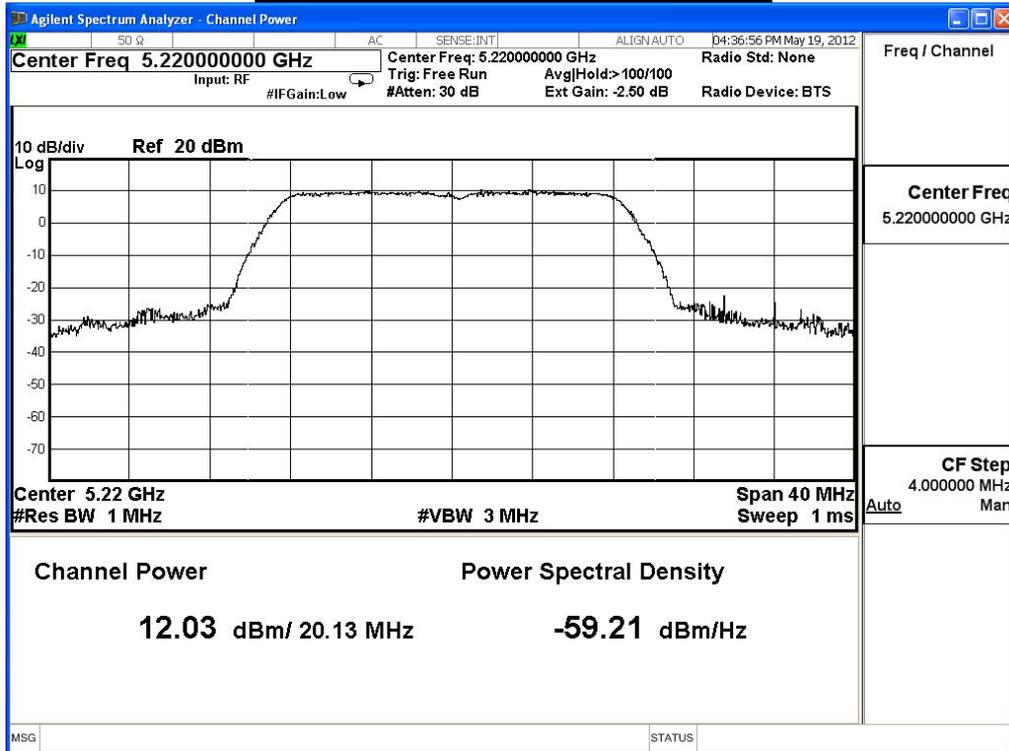
The worst emission of data rate is 19.5Mbps.

Peak Power Output (dBm)										
Channel No	Frequency (MHz)	Data Rate								Required Limit
		19.5	39	58.5	78	117	156	175.5	195	
36	5180	12.12	12.11	12.10	12.08	12.09	12.07	12.06	12.05	1 Watt≤17dBm
44	5220	12.03	--	--	--	--	--	--	--	1 Watt≤17dBm
48	5240	12.09	--	--	--	--	--	--	--	1 Watt≤17dBm

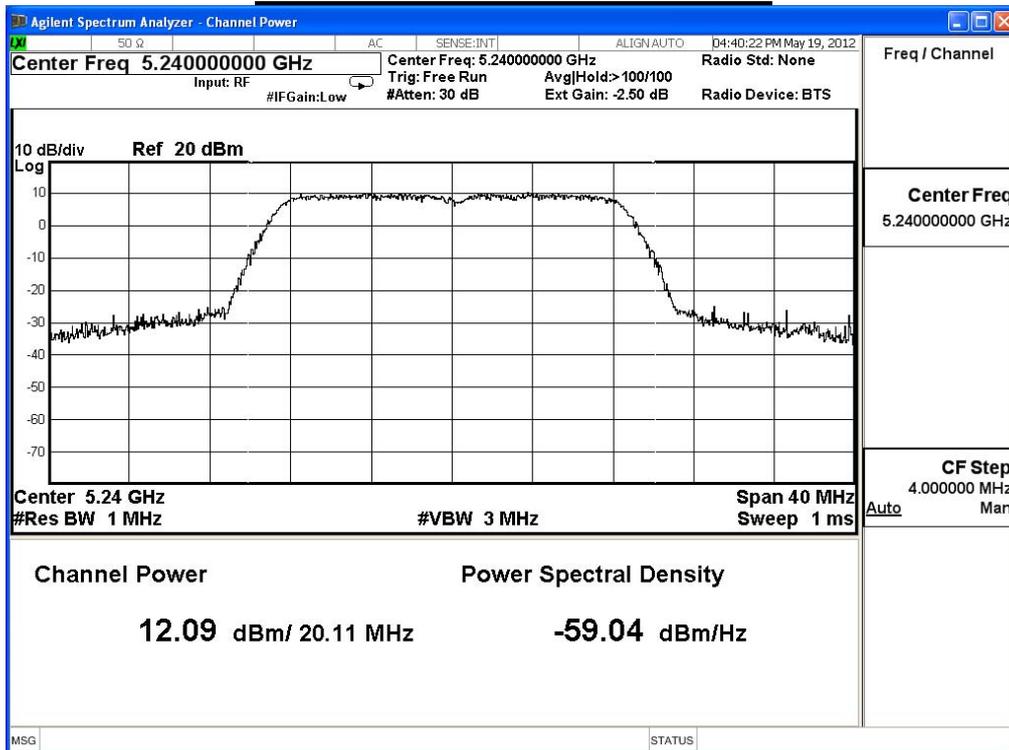
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



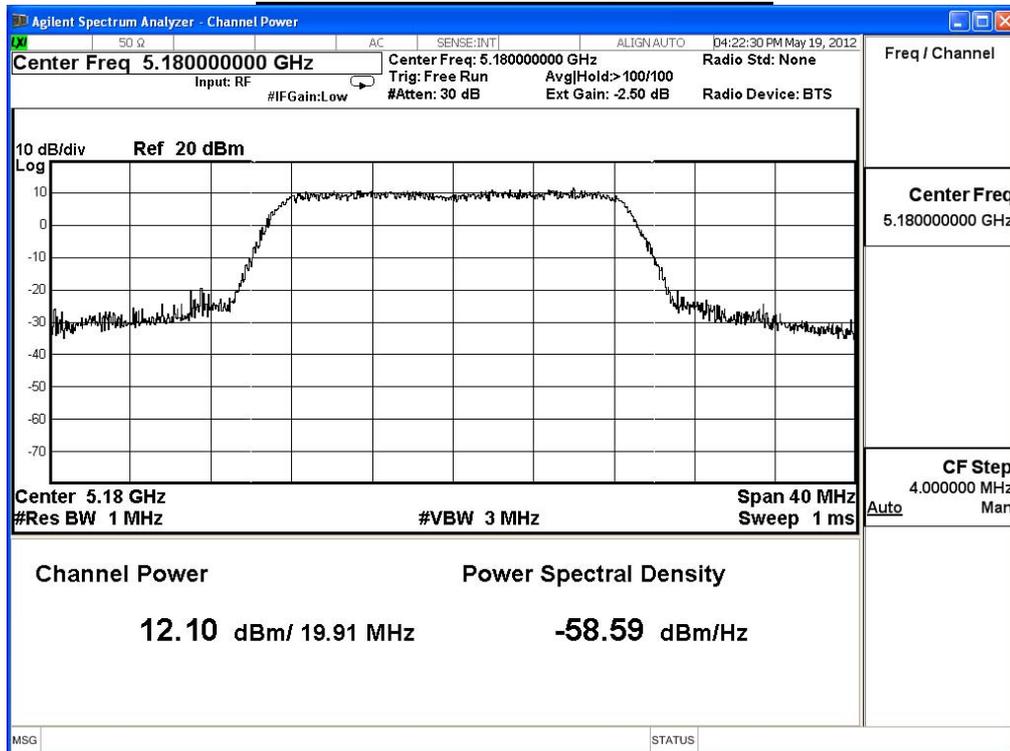
Product	Dual-band Wireless-N750 Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_(Adapter: AD82030)		
Date of Test	2012/05/21	Test Site	SR7

IEEE 802.11n(20MHz)_ANT 1						
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit		Result
				Fixed Limit (dBm)	4+10logB Limit (dBm)	
36	5180	19.910	12.100	≤17	≤ 16.99	Pass
44	5220	19.970	12.010	≤17	≤ 15.56	Pass
48	5240	19.880	12.010	≤17	≤16.98	Pass

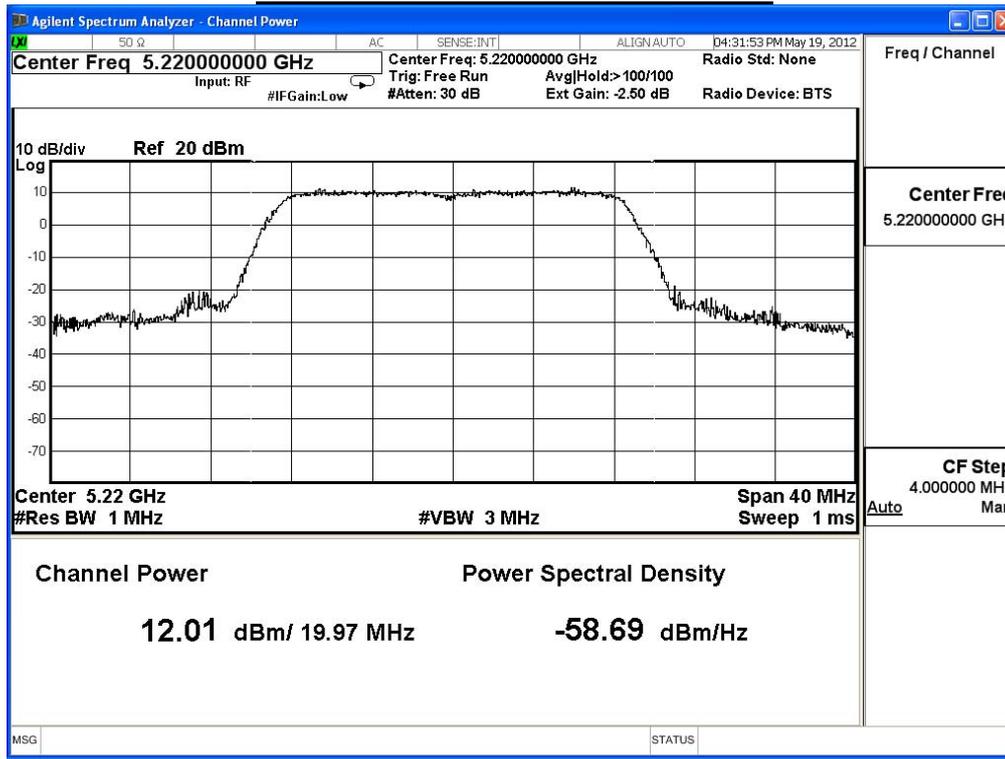
The worst emission of data rate is 19.5Mbps.

Peak Power Output (dBm)										
Channel No	Frequency (MHz)	Data Rate								Required Limit
		19.5	39	58.5	78	117	156	175.5	195	
36	5180	12.10	12.09	12.07	12.08	12.06	12.07	12.05	12.04	1 Watt≤17dBm
44	5220	12.01	--	--	--	--	--	--	--	1 Watt≤17dBm
48	5240	12.01								1 Watt≤17dBm

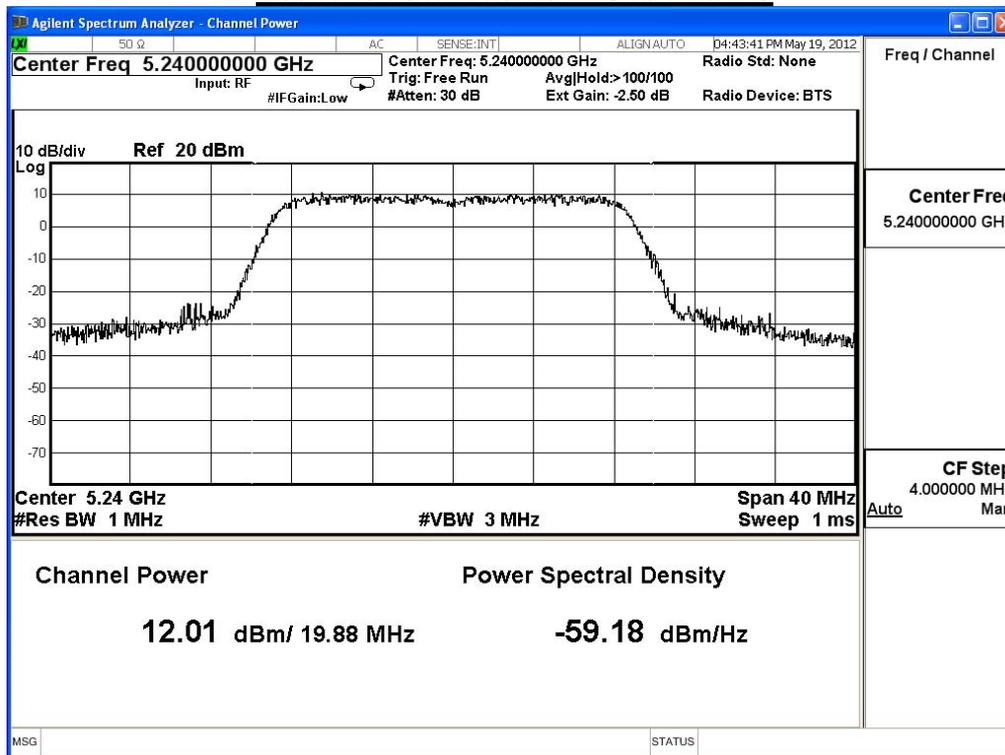
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



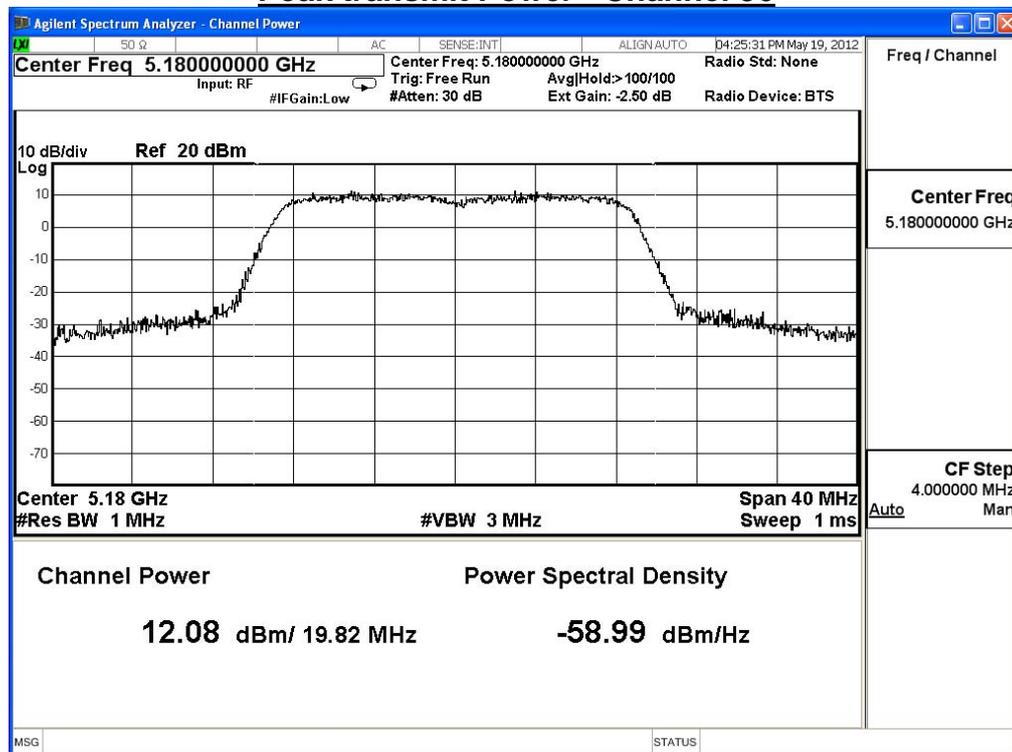
Product	Dual-band Wireless-N750 Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_(Adapter: AD82030)		
Date of Test	2012/05/21	Test Site	SR7

IEEE 802.11n(20MHz)_ANT 2						
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit		Result
				Fixed Limit (dBm)	4+10logB Limit (dBm)	
36	5180	19.820	12.080	≤17	≤ 16.97	Pass
44	5220	19.820	12.030	≤17	≤16.97	Pass
48	5240	19.850	12.000	≤17	≤16.98	Pass

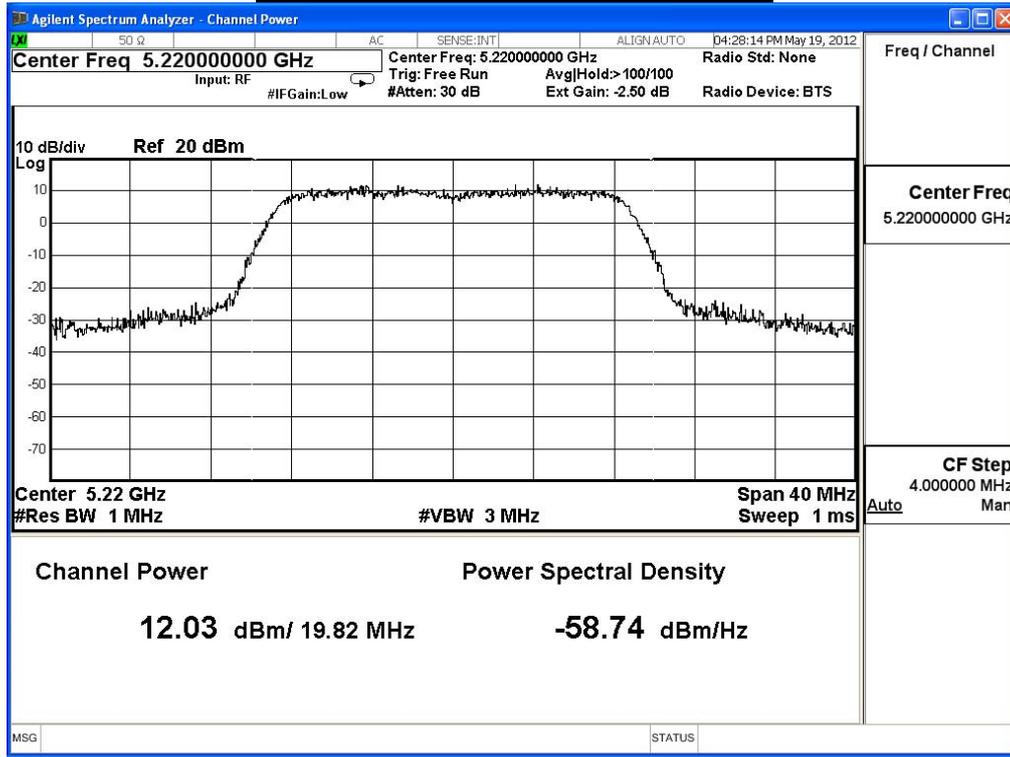
The worst emission of data rate is 19.5Mbps.

Peak Power Output (dBm)										
Channel No	Frequency (MHz)	Data Rate								Required Limit
		19.5	39	58.5	78	117	156	175.5	195	
36	5180	12.08	12.07	12.06	12.04	12.05	12.01	12.03	12.02	1 Watt≤17dBm
44	5220	12.03	--	--	--	--	--	--	--	1 Watt≤17dBm
48	5240	12.00	--	--	--	--	--	--	--	1 Watt≤17dBm

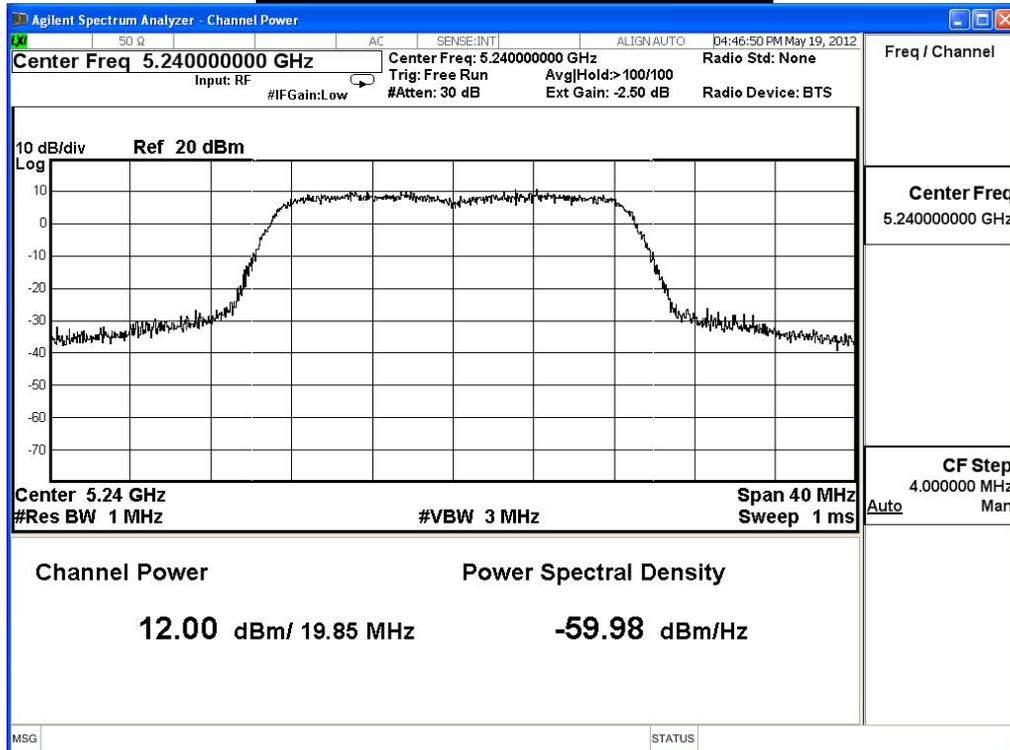
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



Product	Dual-band Wireless-N750 Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_(Adapter: AD82030)		
Date of Test	2012/05/21	Test Site	SR7

IEEE 802.11n(20MHz)_ANT 0+1+2					
Channel No.	Frequency (MHz)	Total Output Power		Required Limit (dBm)	Result
		(dBm)	(mW)		
36	5180	16.870	48.640	≤17	Pass
44	5220	16.790	47.752	≤ 17	Pass
48	5240	16.800	47.863	≤ 17	Pass

802.11 n(20M), Antenna 0+1+2

Peak Power Output (dBm)										
Channel No	Frequency (MHz)	Data Rate								Required Limit
		19.5	39	58.5	78	117	156	175.5	195	
36	5180	16.87	16.85	16.86	16.84	16.82	16.83	16.81	16.82	1 Watt≤17dBm
44	5220	16.79	--	--	--	--	--	--	--	1 Watt≤17dBm
48	5240	16.80	--	--	--	--	--	--	--	1 Watt≤17dBm

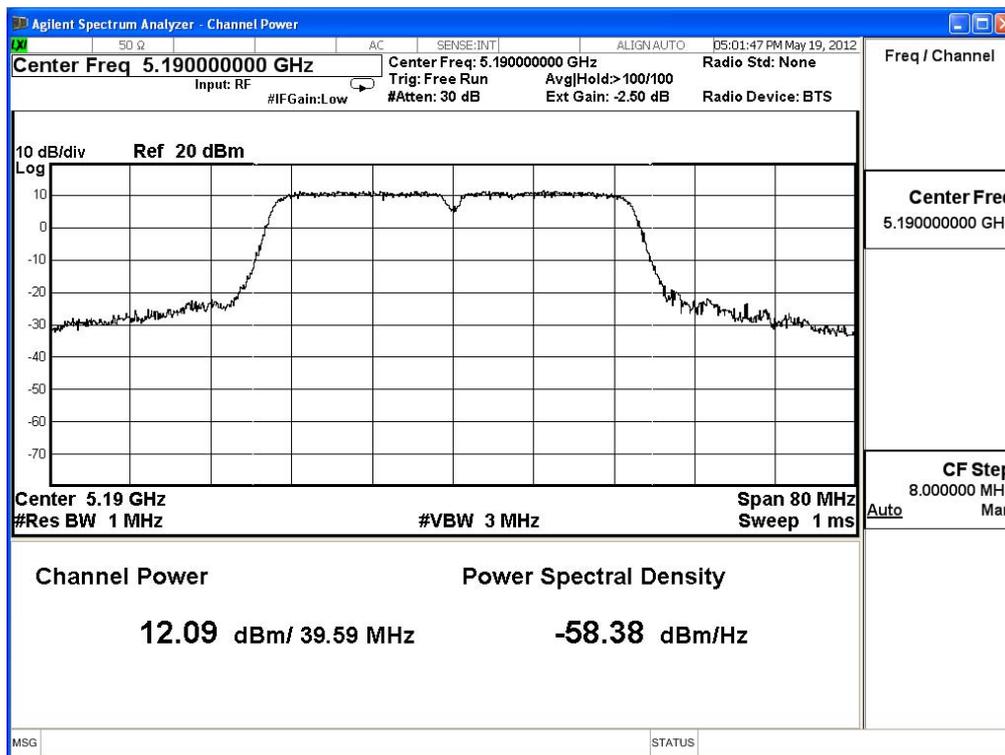
Product	Dual-band Wireless-N750 Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_(Adapter: AD82030)		
Date of Test	2012/05/21	Test Site	SR7

IEEE 802.11n(40MHz)_ANT 0						
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit		Result
				Fixed Limit (dBm)	4+10logB Limit (dBm)	
38	5190	39.590	12.090	≤17	≤ 19.98	Pass
46	5230	39.550	12.050	≤17	≤ 19.98	Pass

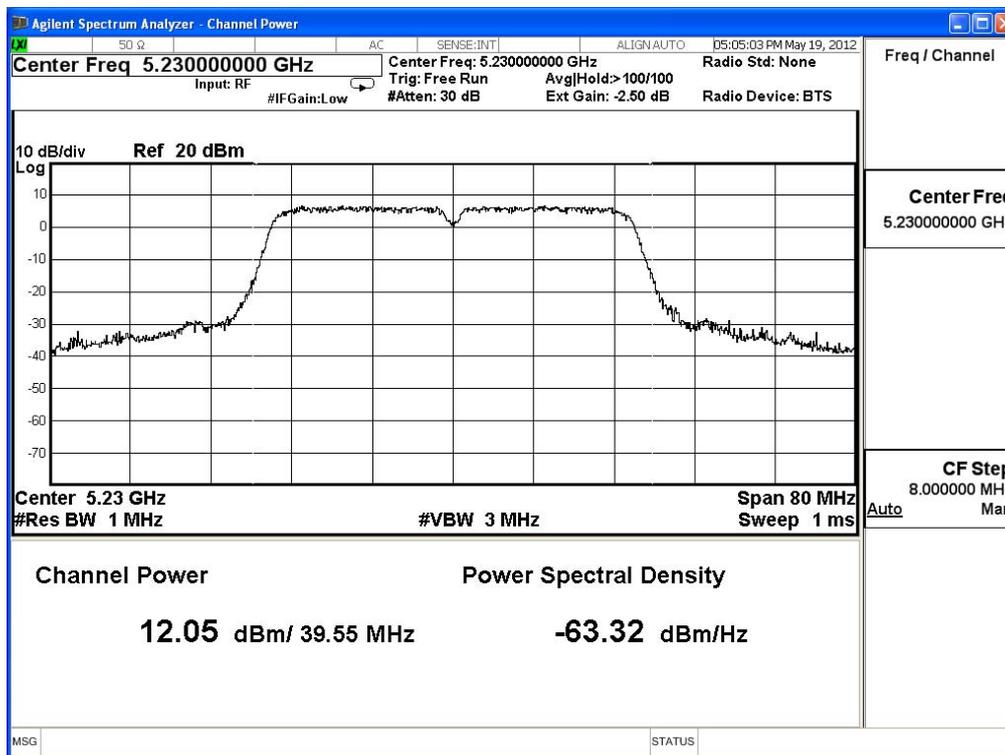
The worst emission of data rate is 40.5 Mbps

Peak Power Output (dBm)										
Channel No	Frequency (MHz)	Data Rate								Required Limit
		40.5	81.0	121.5	162.0	243.0	324.0	364.5	405.0	
38	5190	12.09	12.08	12.07	12.05	12.06	12.05	12.04	12.02	1 Watt≤17dBm
46	5230	12.05	--	--	--	--	--	--	--	1 Watt≤17dBm

Peak transmit Power - Channel 38



Peak transmit Power - Channel 46



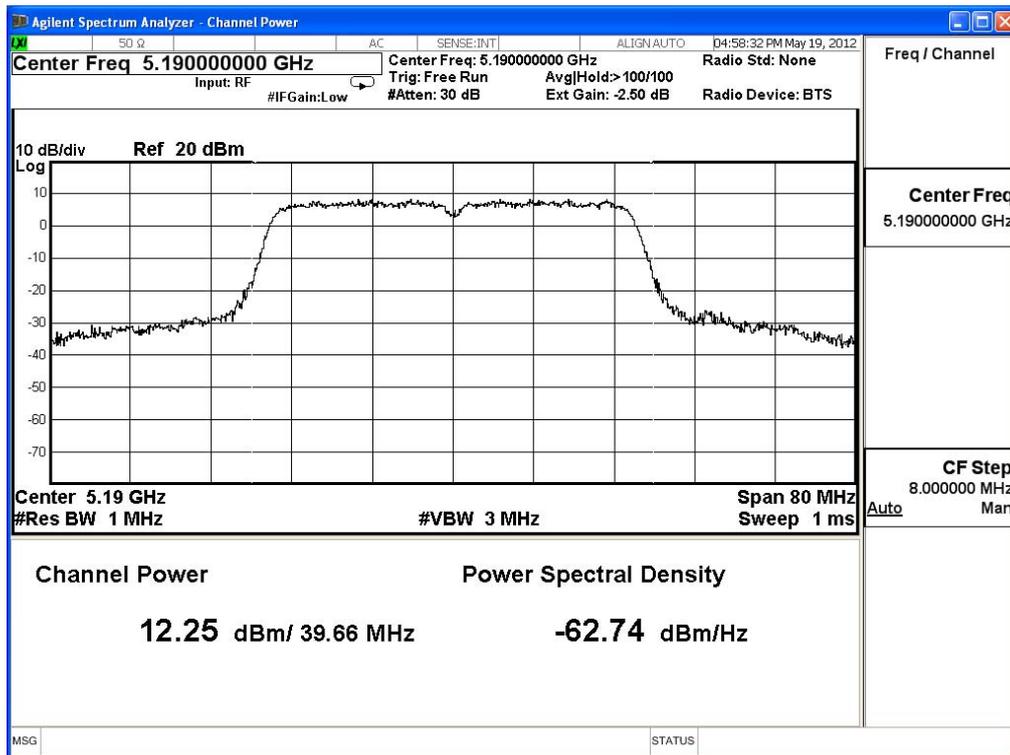
Product	Dual-band Wireless-N750 Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_(Adapter: AD82030)		
Date of Test	2012/05/21	Test Site	SR7

IEEE 802.11n(40MHz)_ANT 1						
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit		Result
				Fixed Limit (dBm)	4+10logB Limit (dBm)	
38	5190	39.660	12.250	≤17	≤ 19.98	Pass
46	5230	39.570	12.090	≤17	≤ 19.98	Pass

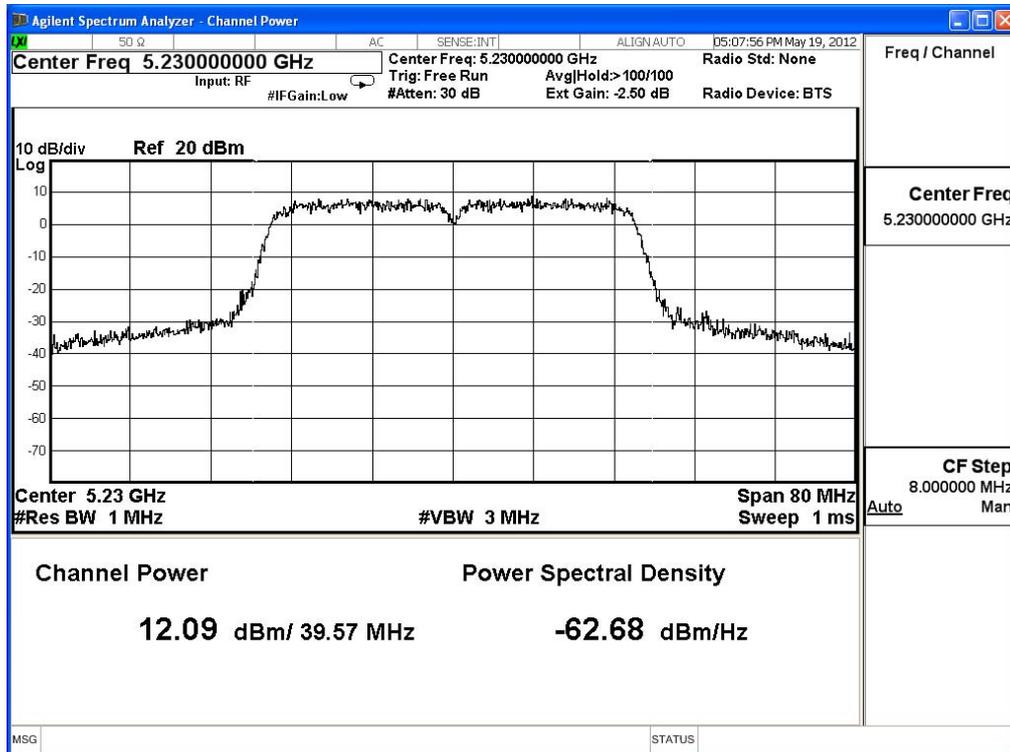
The worst emission of data rate is 40.5 Mbps

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		40.5	81.0	121.5	162.0	243.0	324.0	364.5	405.0	
38	5190	12.25	12.21	12.24	12.23	12.21	12.22	12.20	12.19	17dBm or 4dBm+10logB
46	5230	12.09	--	--	--	--	--	--	--	

Peak transmit Power - Channel 38



Peak transmit Power - Channel 46



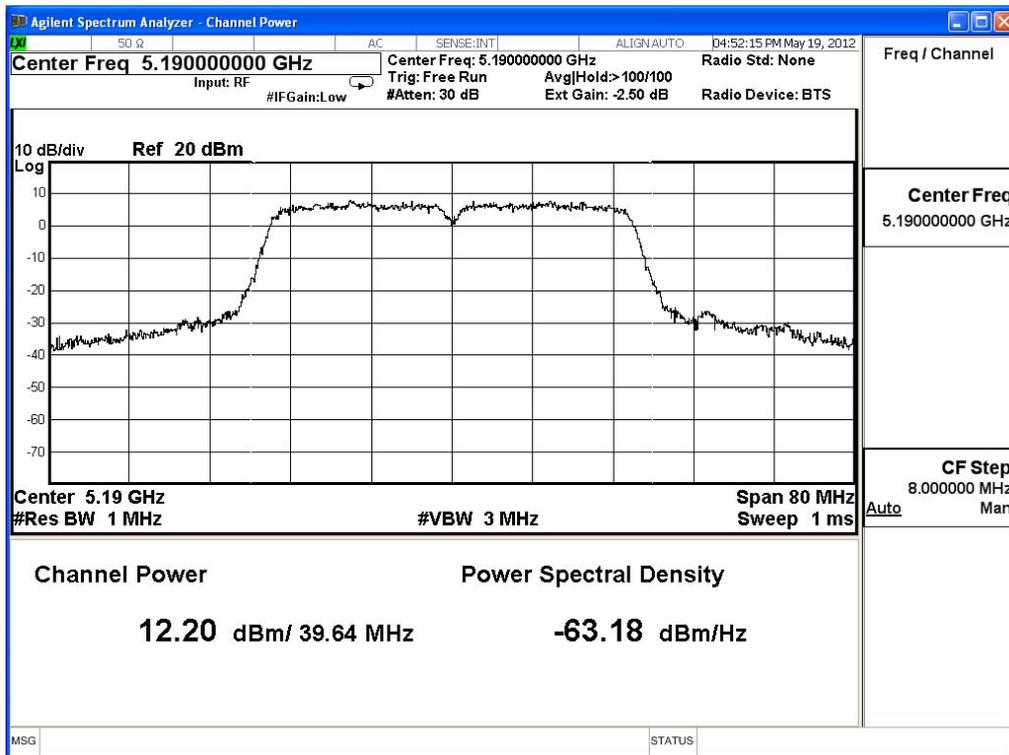
Product	Dual-band Wireless-N750 Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit (Adapter: AD82030)		
Date of Test	2012/05/21	Test Site	SR7

IEEE 802.11n(40MHz)_ANT 2						
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit		Result
				Fixed Limit (dBm)	4+10logB Limit (dBm)	
38	5190	39.640	12.200	≤17	≤ 19.98	Pass
46	5230	39.620	12.030	≤17	≤ 19.97	Pass

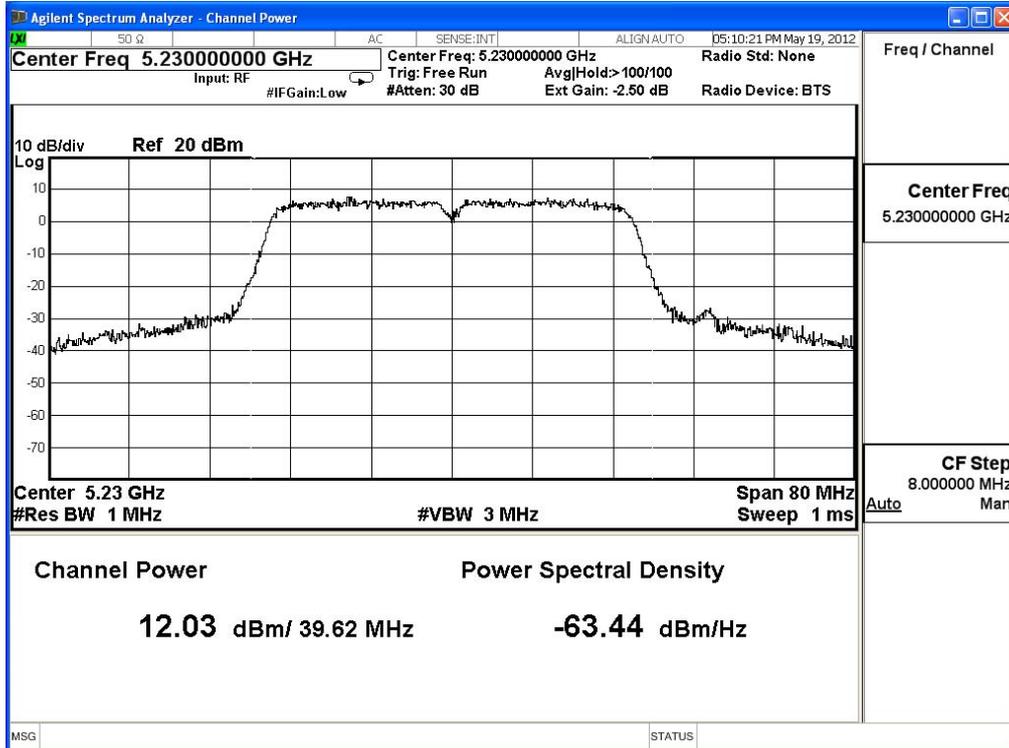
The worst emission of data rate is 40.5 Mbps

Peak Power Output (dBm)										
Channel No	Frequency (MHz)	Data Rate								Required Limit
		40.5	81.0	121.5	162.0	243.0	324.0	364.5	405.0	
38	5190	12.20	12.19	12.17	12.18	12.16	12.15	12.14	12.13	1 Watt≤17dBm
46	5230	12.03	--	--	--	--	--	--	--	1 Watt≤17dBm

Peak transmit Power - Channel 38



Peak transmit Power - Channel 46



Product	Dual-band Wireless-N750 Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit_(Adapter: AD82030)		
Date of Test	2012/05/21	Test Site	SR7

IEEE 802.11n(40MHz)_ANT 0+1+2					
Channel No.	Frequency (MHz)	Total Output Power		Required Limit (dBm)	Result
		(dBm)	(mW)		
38	5190	16.950	49.545	≤ 17	Pass
46	5230	16.830	48.194	≤ 17	Pass

802.11 n(40M), Antenna 0+1+2

Peak Power Output (dBm)										
Channel No	Frequency (MHz)	Data Rate								Required Limit
		40.5	81.0	121.5	162.0	243.0	324.0	364.5	405.0	
38	5190	16.95	16.94	16.92	16.93	16.91	16.90	16.89	16.87	1 Watt≤17dBm
46	5230	16.83	--	--	--	--	--	--	--	1 Watt≤17dBm

5. Peak Power Spectrum Density

5.1. Test Equipment

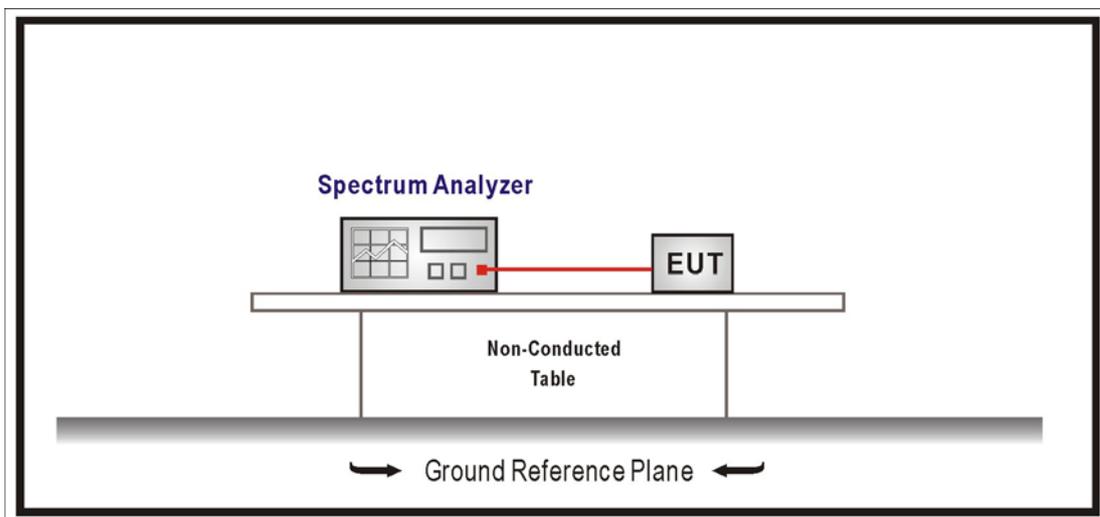
The following test equipments are used during the radiated emission tests:

Peak Power Spectrum Density / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2013/02/19

Note: 1. 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 4 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.
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 5.725-5.825 GHz, the peak power spectral density shall not exceed 17 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.

5.4. Test Procedure

The EUT was setup to ANSI C63.4, 2009; tested to U-NII test procedure of March 2012 KDB 789033 for compliance to FCC 47CFR Subpart E requirements.

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.

5.5. Uncertainty

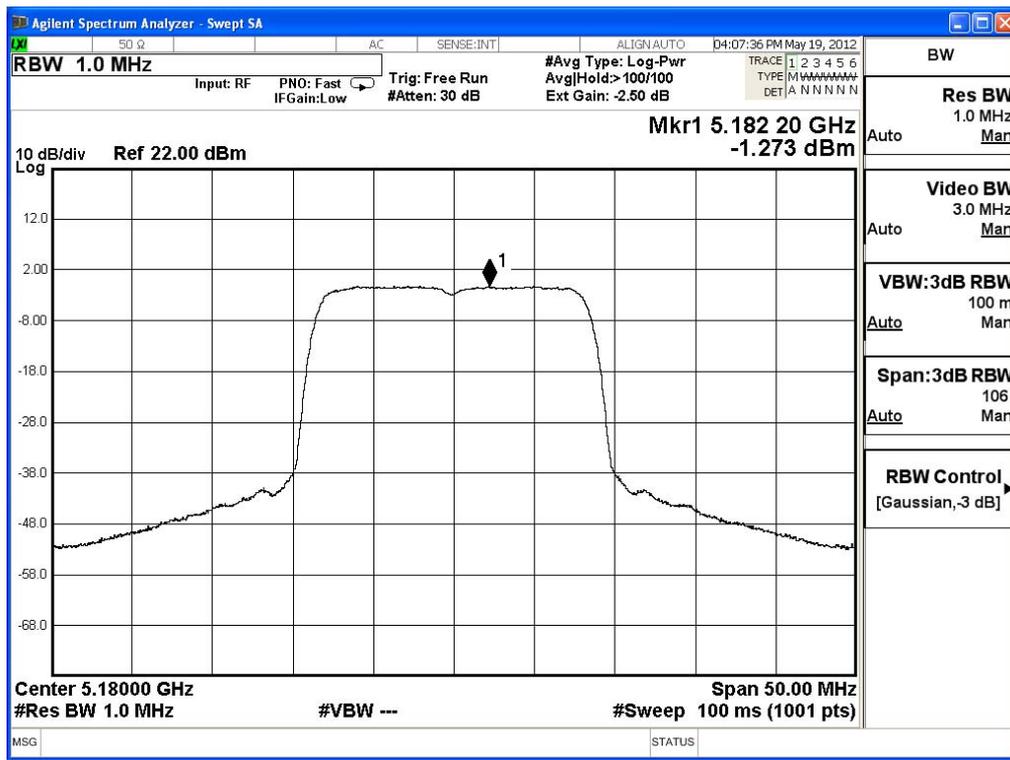
The measurement uncertainty is defined as ± 1.27 dB

5.6. Test Result

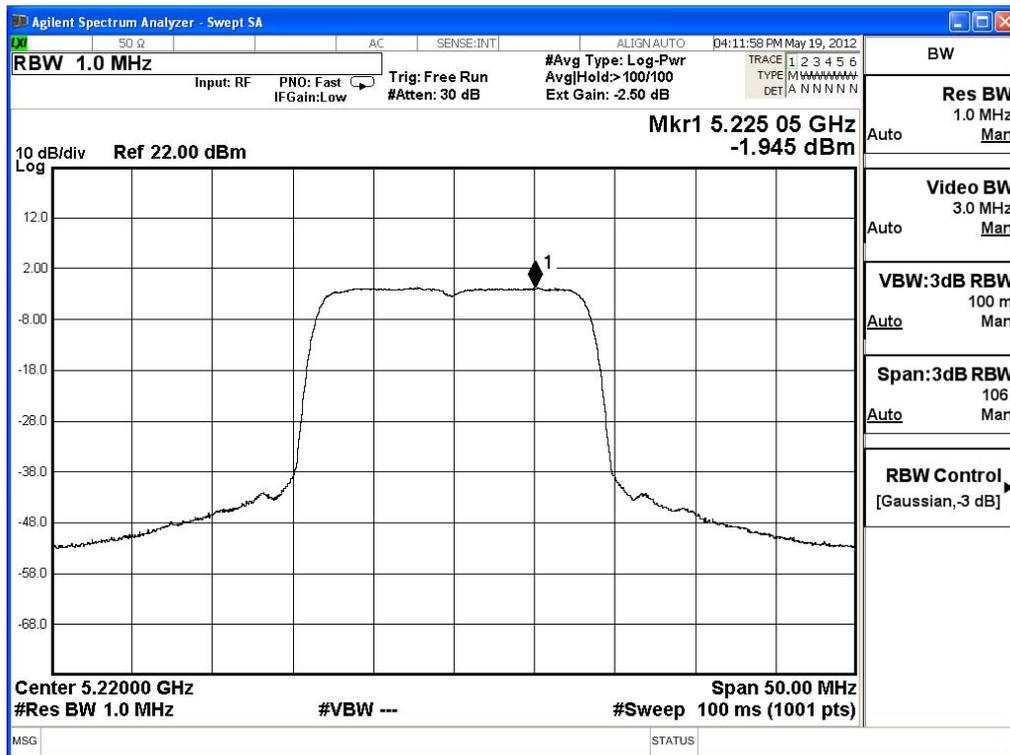
Product	Dual-band Wireless-N750 Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit_(Adapter: AD82030)		
Date of Test	2012/05/21	Test Site	SR7

IEEE 802.11a				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
36	5180	-1.273	≤ 4	Pass
44	5220	-1.945	≤ 4	Pass
48	5240	-1.727	≤ 4	Pass

Peak Power Spectral Density – Channel 36



Peak Power Spectral Density – Channel 44



Peak Power Spectral Density – Channel 48

