FCC Test Report

Product Name ： Gigabit Router Dual-band Wireless-N900

Model No. ： RT-N66U, RT-N66R, RT-N66W

FCC ID. ： MSQ-RTN66U

Applicant ： ASUSTeK COMPUTER INC.

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

Date of Receipt ： 2014/06/11

Issued Date ： 2014/06/25

Report No. ： 1460423R-RFUSP43V00

Report Version ： V1.0

Test Report Certification

Issued Date : 2014/06/25
Report No. : 1460423R-RFUSP43V00

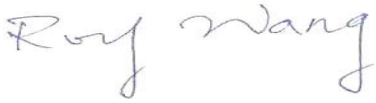
QuieTek

Product Name	:	Gigabit Router Dual-band Wireless-N900
Applicant	:	ASUSTeK COMPUTER INC.
Address	:	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
Manufacturer	:	Askey Technology (Jiangsu) LTD.
Model No.	:	RT-N66U, RT-N66R, RT-N66W
FCC ID.	:	MSQ-RTN66U
EUT Voltage	:	AC 100-240V, 50-60Hz
Trade Name	:	ASUS
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart E Section 15.407:2013 ANSI C63.4: 2009
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 / Engineering Adm. Specialist)

Reviewed By : 
(Bruno Tsai / Engineer)

Approved By : 
(Roy Wang / Director)

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: 1313**
USA	**:**	**FCC, Registration Number: 365520**
Canada	**:**	**IC, Submission No: 150981**

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/tw/ctg/cts/accreditations.htm
The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site : http://www.quietek.com/
If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

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1. General Information

1.1. EUT Description

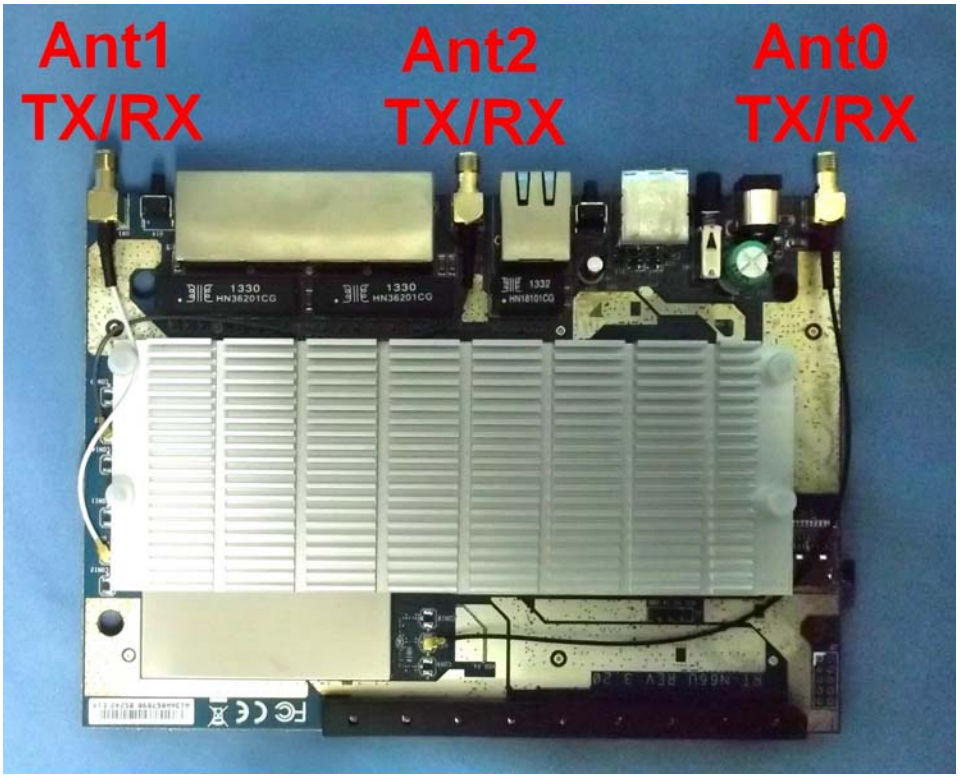
Product Name	Gigabit Router Dual-band Wireless-N900
Product Type	WLAN (3TX, 3RX)
Trade Name	ASUS
Model No.	RT-N66U, RT-N66R, RT-N66W
Frequency Range/Channel Number -IEEE 802.11a & IEEE 802.11n (20MHz)	5180~5240MHz / 4 Channels
Frequency Range/Channel Number -IEEE 802.11n (40MHz)	5190~5230MHz / 2 Channels
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	ARISTOTLE / RFA-25-C35-M10 Ant0: 2dBi,Ant1: 2dBi,Ant2: 2dBi MAG. LAYERS / EDA-1410-25GR2-A1 Ant0: 2dBi,Ant1: 2dBi,Ant2: 2dBi Walsin Technology / RFDPA141000SBLB807 Ant0: 2dBi,Ant1: 2dBi,Ant2: 2dBi Walsin Technology / RFDPA141000SBLB801 Ant0: 2dBi,Ant1: 2dBi,Ant2: 2dBi
Antenna Type	Dipole

Component	
Antenna	ARISTOTLE / RFA-25-C35-M10, 3 PCS
Antenna	MAG. LAYERS / EDA-1410-25GR2-A1, 3 PCS
Antenna	Walsin Technology / RFDPA141000SBLB803 , 3 PCS
Antenna	Walsin Technology / RFDPA141000SBLB801, 3 PCS
LAN Cable	Non-Shielded, 1.5m
Power Adatper	ASUS, EXA1004UH I/P : AC 100-240V, 50-60Hz 1A O/P : +19V⎓1.58A Cable Out: Non-shielded, 2.5m, one ferrite core bonded.
Power Adatper	ASUS, AD82030 I/P : AC 100-240V, 50-60Hz 0.8A O/P : +19V⎓1.58A Cable Out: Non-Shielded, 2.5m, one ferrite core bonded.

ANT-TX / RX & Bandwidth

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

(3TX / 3RX)



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

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 Gigabit Router Dual-band Wireless-N900 including 2.4GHz b/g/n and 5GHz a/n (3x3) transmitting and receiving function.
2. The different of the each model is shown as below:

Model No.	Externals color	Antenna
RT-N66U, RT-N66R	Black	ARISTOTLE / RFA-25-C35-M10
		MAG. LAYERS / EDA-1410-25GR2-A1
		Walsin Technology / RFDPA141000SBLB801
RT-N66W	White	Walsin Technology / RFDPA141000SBLB803

   The variation of model number is for different strategy of marketing.
3. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart E Paragraph 15.407.
4. 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.
5. The function of the 2.4GHz and 5.8GHz transmitting is measured and makes a test report of the report number: 1440427R-RFUSP28V00.
6. This device has USB and Ethernet ports, which can be connected to computer. It is a Class B personal computer and peripheral. Its test report number is 1440427R-RFUSP01V00 under part 15B with Declaration of Conformity letter.
7. The different of the each Antenna shown as below:

Antenna Source	Antenna Model	Antenna Gain
ARISTOTLE	RFA-25-C35-M10	2dBi
MAG. LAYERS	EDA-1410-25GR2-A1	2dBi
Walsin Technology	RFDPA141000SBLB803	2dBi
Walsin Technology	RFDPA141000SBLB801	2dBi

8. This report is class II change.

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(CDD Mode)_Adapter: ASUS, EXA1004UH Mode 2: Transmit(CDD Mode)_Adapter: ASUS, AD82030

Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11n(40MHz)	38	0+1+2	Complies
99 % & 26dB Bandwidth	a	36/44/48	0/1/2	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	0+1+2	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	0+1+2	Complies
	11n(20MHz)	36/44/48	0+1+2	Complies
	11n(40MHz)	38/46	0+1+2	Complies
Radiated Emission	a	36/44/48	0+1+2	Complies
	11n(20MHz)	36/44/48	0+1+2	Complies
	11n(40MHz)	38/46	0+1+2	Complies
Band Edge	a	36	0+1+2	Complies
	11n(20MHz)	36	0+1+2	Complies
	11n(40MHz)	38	0+1+2	Complies
Frequency Stability	a	36/48	0/1/2	Complies
	11n(20MHz)	36/48	0/1/2	Complies
	11n(40MHz)	38/46	0/1/2	Complies

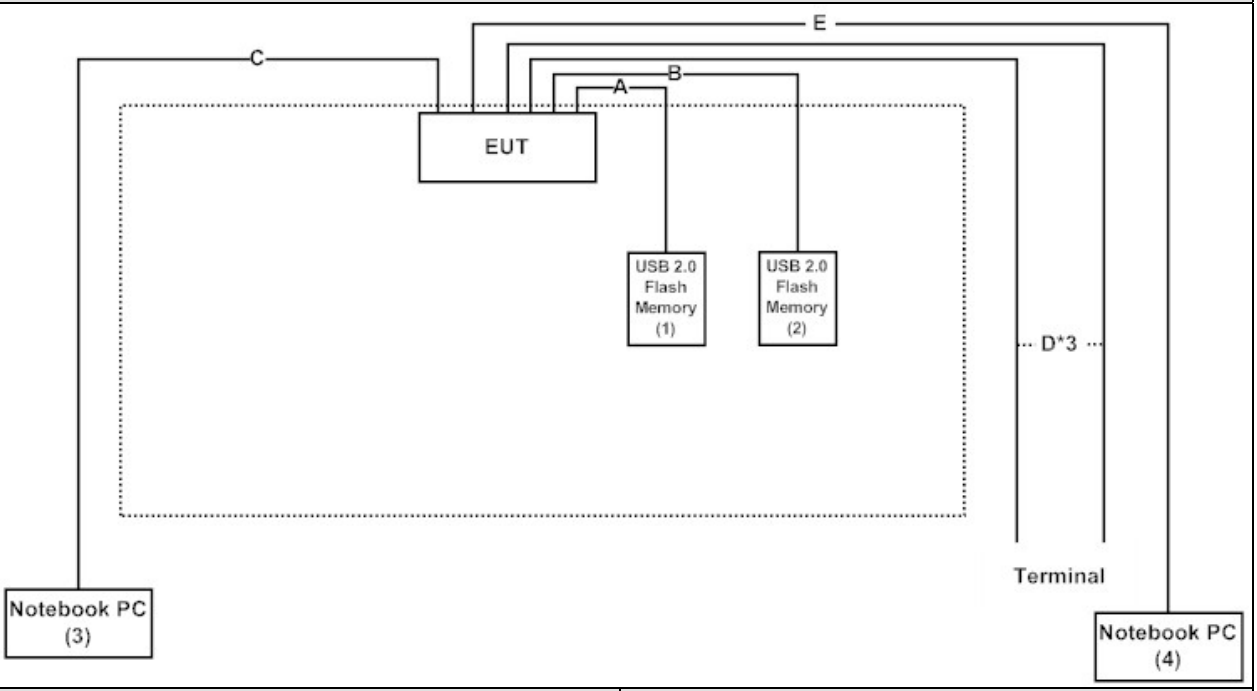
1.3. Tested System Details

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

Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	USB 2.0 Flash Memory	Sony	USM2GJX	N/A	DoC	--
2	USB 2.0 Flash Memory	Sony	USM2GJX	N/A	DoC	--
3	Notebook PC	DELL	PP37L	CD8BNG1	DoC	Non-Shielded, 1.8m
4	Notebook PC	HP Compaq	NX6320FF	CNU7020BXT	DoC	Non-Shielded, 1.8m

1.4. Configuration of tested System

Connection Diagram



Signal Cable Type		Signal cable Description
A	USB 2.0 Flash Memory Cable	Shielded, 1.0m
B	USB 2.0 Flash Memory Cable	Shielded, 1.0m
C	LAN Cable	Non-Shielded, 3.0m
D	LAN Cable	Non-Shielded, 3.0m, 3PCS
E	LAN Cable	Non-Shielded, 3.0m

1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the control program “Mtool 2.0.0.7” 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	45
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Peak Power Spectrum Density	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	48
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Band Edge	15 - 35	25
Humidity (%RH)		25 - 75	48
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Frequency Stability	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000

2. Conducted Emission

2.1. Test Equipment

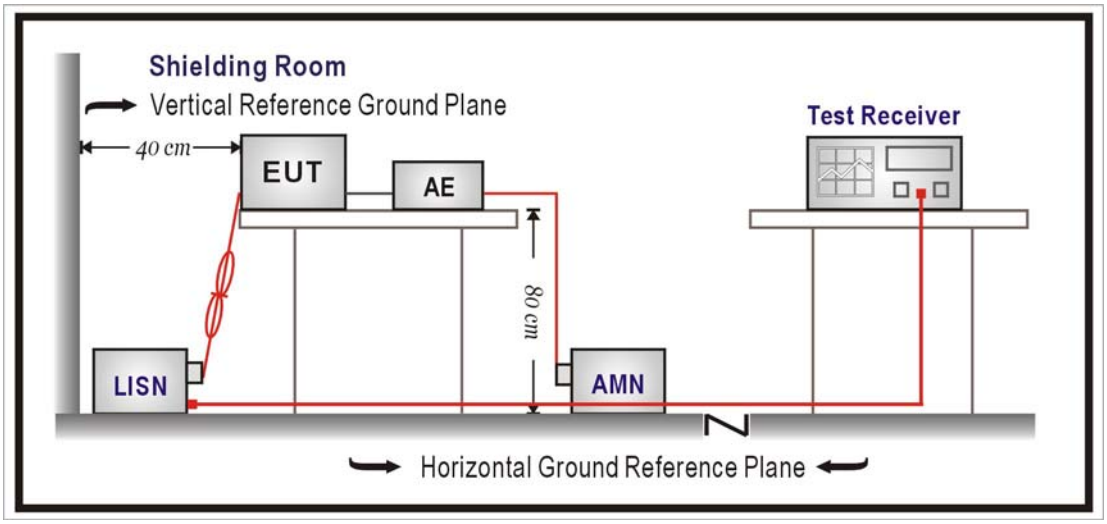
The following test equipments are used during the test:

Conducted Emission / SR3

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
LISN	R&S	ENV216	100096	2014/08/01
LISN	R&S	ESH3-Z5	836679/022	2015/01/02
Test Receiver	R&S	ESCS 30	825442/017	2014/12/24

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

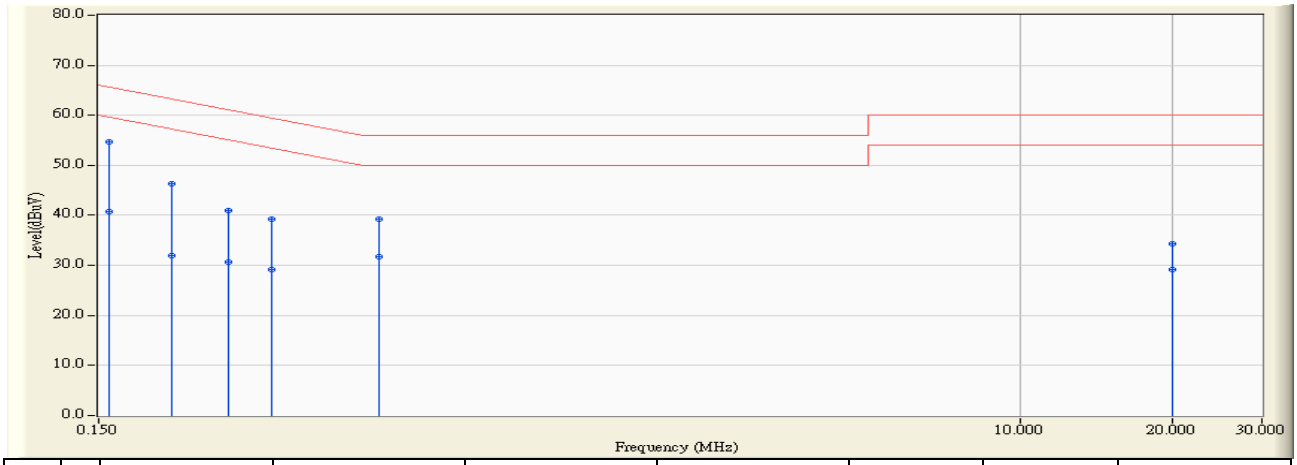
According to FCC Part 15 Subpart C Paragraph 15.207: 2013

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR3	Time : 2014/06/14 - 14:26
Limit : CISPR_B_00M_QP	Margin : 6
Probe : SR3_LISN(16A)-3_0813 - Line1	Power : AC 120V/60Hz
EUT : Gigabit Router Dual-band Wireless-N900	Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(40MHz)_5230MHz

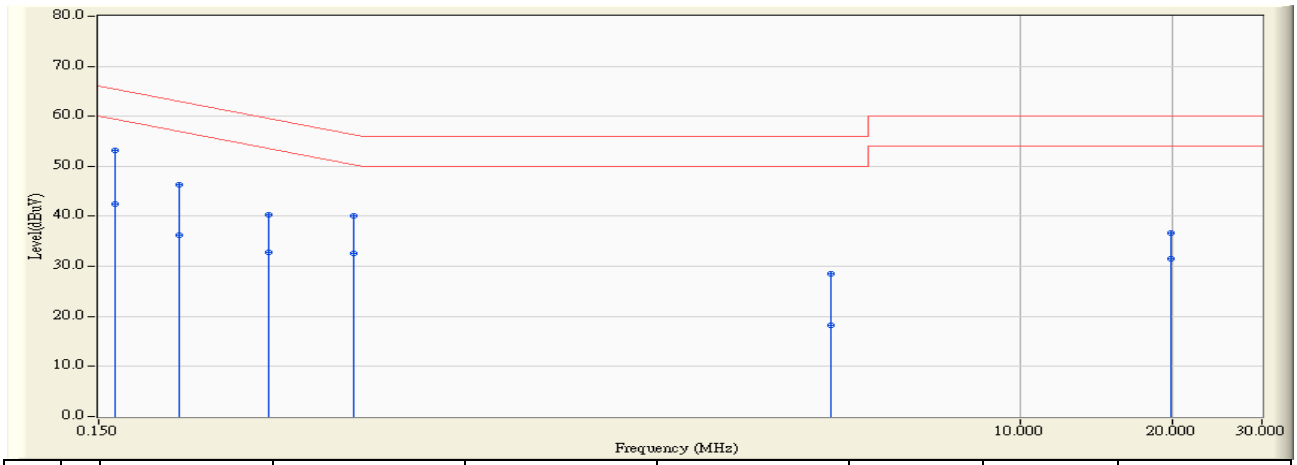


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.158	9.641	45.070	54.710	-10.868	65.578	QUASIPEAK
2		0.158	9.641	31.130	40.770	-14.808	55.578	AVERAGE
3		0.209	9.663	36.760	46.423	-16.838	63.261	QUASIPEAK
4		0.209	9.663	22.370	32.033	-21.228	53.261	AVERAGE
5		0.271	9.697	31.190	40.887	-20.197	61.084	QUASIPEAK
6		0.271	9.697	20.990	30.687	-20.397	51.084	AVERAGE
7		0.330	9.734	29.430	39.164	-20.295	59.459	QUASIPEAK
8		0.330	9.734	19.370	29.104	-20.355	49.459	AVERAGE
9		0.537	9.836	29.320	39.156	-16.844	56.000	QUASIPEAK
10		0.537	9.836	21.930	31.766	-14.234	46.000	AVERAGE
11		19.982	10.130	24.240	34.370	-25.630	60.000	QUASIPEAK
12		19.982	10.130	19.130	29.260	-20.740	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 : SR3	**Time : 2014/06/14 - 14:32**
Limit : CISPR_B_00M_QP	**Margin : 6**
Probe : SR3_LISN(16A)-3_0813 - Line2	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(40MHz)_5230MHz**

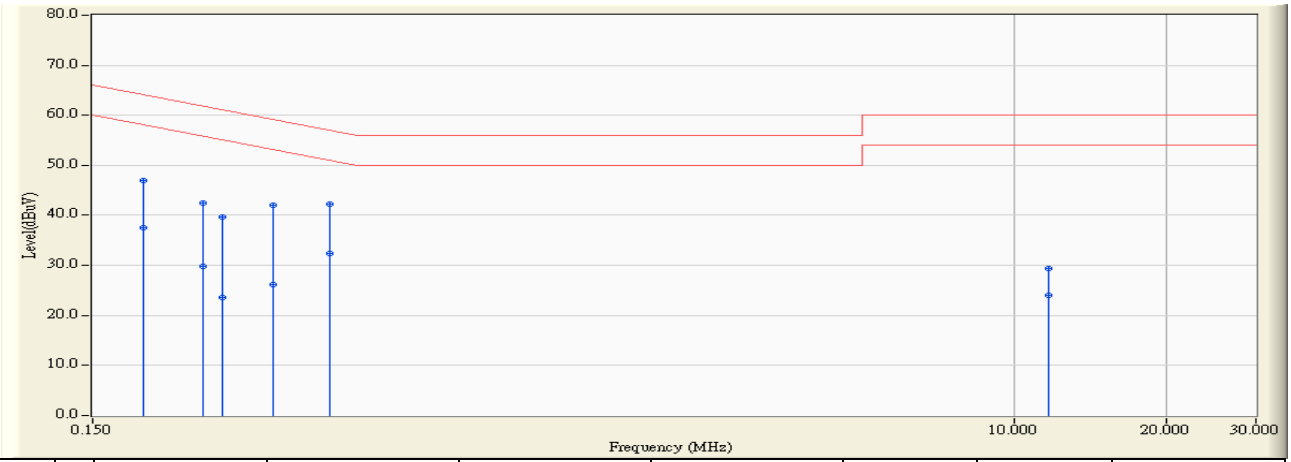


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.162	9.641	43.600	53.241	-12.134	65.375	QUASIPEAK
2		0.162	9.641	32.770	42.411	-12.964	55.375	AVERAGE
3		0.216	9.668	36.710	46.378	-16.577	62.956	QUASIPEAK
4		0.216	9.668	26.540	36.208	-16.747	52.956	AVERAGE
5		0.326	9.721	30.550	40.271	-19.287	59.558	QUASIPEAK
6		0.326	9.721	23.100	32.821	-16.737	49.558	AVERAGE
7		0.478	9.806	30.310	40.116	-16.255	56.372	QUASIPEAK
8		0.478	9.806	22.780	32.586	-13.785	46.372	AVERAGE
9		4.205	10.030	18.550	28.580	-27.420	56.000	QUASIPEAK
10		4.205	10.030	8.180	18.210	-27.790	46.000	AVERAGE
11		19.783	10.310	26.280	36.590	-23.410	60.000	QUASIPEAK
12		19.783	10.310	21.210	31.520	-18.480	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 : SR3	**Time : 2014/06/20 - 16:07**
Limit : CISPR_B_00M_QP	**Margin : 6**
Probe : SR3_LISN(16A)-3_0813 - Line1	**Power : AC 120V/60 Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Note : Mode 2: Transmit(CDD Mode)_Adapter: ASUS, AD82030 802.11n_40MHz_ 5230MHz**

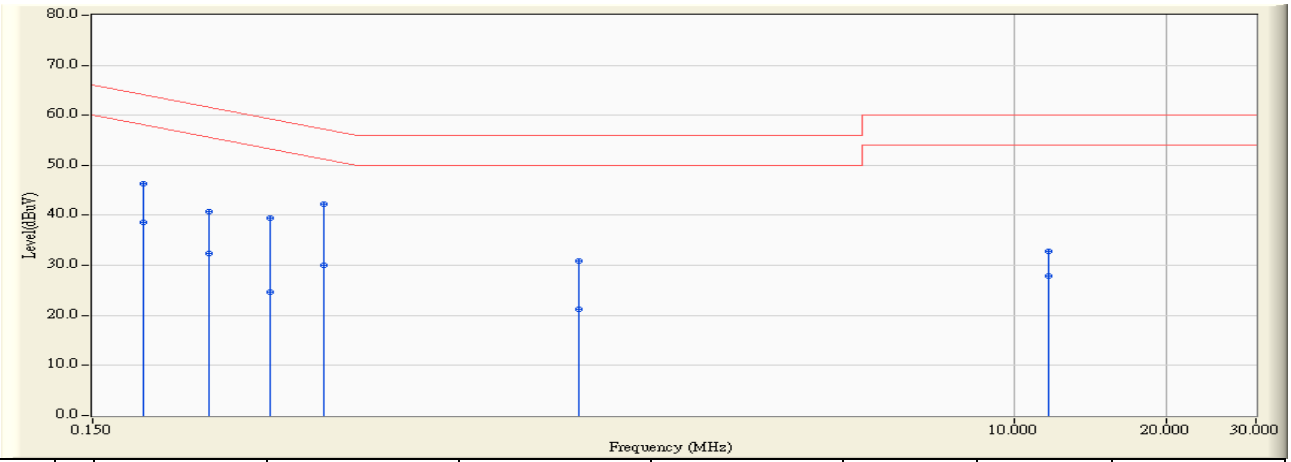


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.189	9.650	37.420	47.070	-17.008	64.078	QUASIPEAK
2		0.189	9.650	27.870	37.520	-16.558	54.078	AVERAGE
3		0.248	9.689	32.800	42.489	-19.346	61.835	QUASIPEAK
4		0.248	9.689	20.140	29.829	-22.006	51.835	AVERAGE
5		0.271	9.697	30.060	39.757	-21.327	61.084	QUASIPEAK
6		0.271	9.697	13.950	23.647	-27.437	51.084	AVERAGE
7		0.341	9.742	32.240	41.982	-17.187	59.169	QUASIPEAK
8		0.341	9.742	16.450	26.192	-22.977	49.169	AVERAGE
9		0.443	9.799	32.490	42.289	-14.716	57.006	QUASIPEAK
10	*	0.443	9.799	22.580	32.379	-14.626	47.006	AVERAGE
11		11.638	10.120	19.260	29.380	-30.620	60.000	QUASIPEAK
12		11.638	10.120	13.930	24.050	-25.950	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 : SR3	**Time : 2014/06/20 - 16:11**
Limit : CISPR_B_00M_QP	**Margin : 6**
Probe : SR3_LISN(16A)-3_0813 - Line2	**Power : AC 120V/60 Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Note : Mode 2: Transmit(CDD Mode)_Adapter: ASUS, AD82030 802.11n_40MHz_ 5230MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.189	9.650	36.710	46.360	-17.718	64.078	QUASIPEAK
2		0.189	9.650	28.980	38.630	-15.448	54.078	AVERAGE
3		0.255	9.692	31.090	40.782	-20.795	61.577	QUASIPEAK
4		0.255	9.692	22.700	32.392	-19.185	51.577	AVERAGE
5		0.338	9.729	29.640	39.369	-19.895	59.265	QUASIPEAK
6		0.338	9.729	14.960	24.689	-24.575	49.265	AVERAGE
7	*	0.431	9.782	32.410	42.192	-15.037	57.229	QUASIPEAK
8		0.431	9.782	20.280	30.062	-17.167	47.229	AVERAGE
9		1.377	9.930	20.920	30.850	-25.150	56.000	QUASIPEAK
10		1.377	9.930	11.240	21.170	-24.830	46.000	AVERAGE
11		11.650	10.170	22.650	32.820	-27.180	60.000	QUASIPEAK
12		11.650	10.170	17.770	27.940	-22.060	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

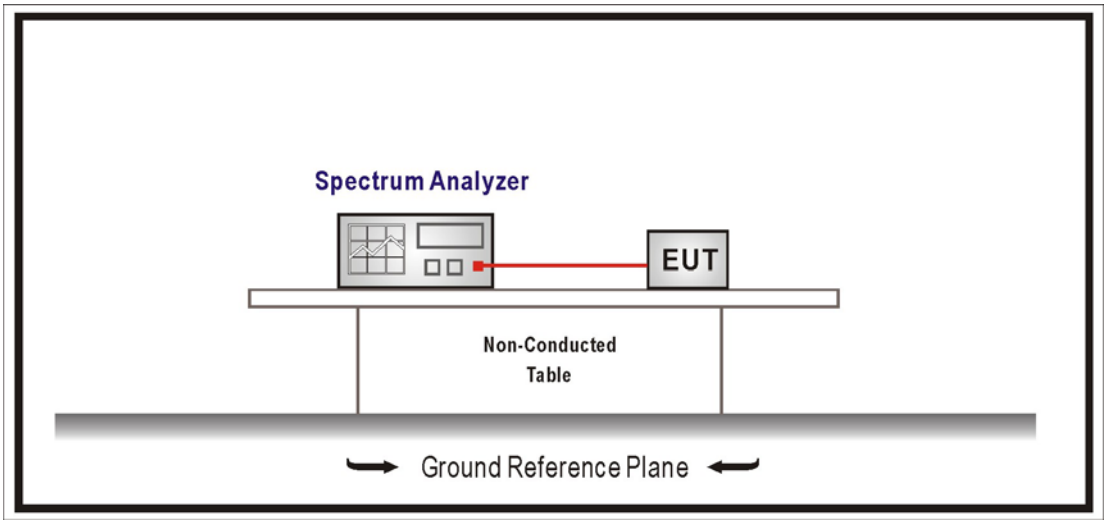
The following test equipments are used during the radiated emission tests:

99% & 26dB Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2014/08/05

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 KDB 789033.
Set RBW 1% to 5% of the emission bandwidth, VBW ≧3 times the RBW.

3.5. Uncertainty

The measurement uncertainty is defined as ±150Hz

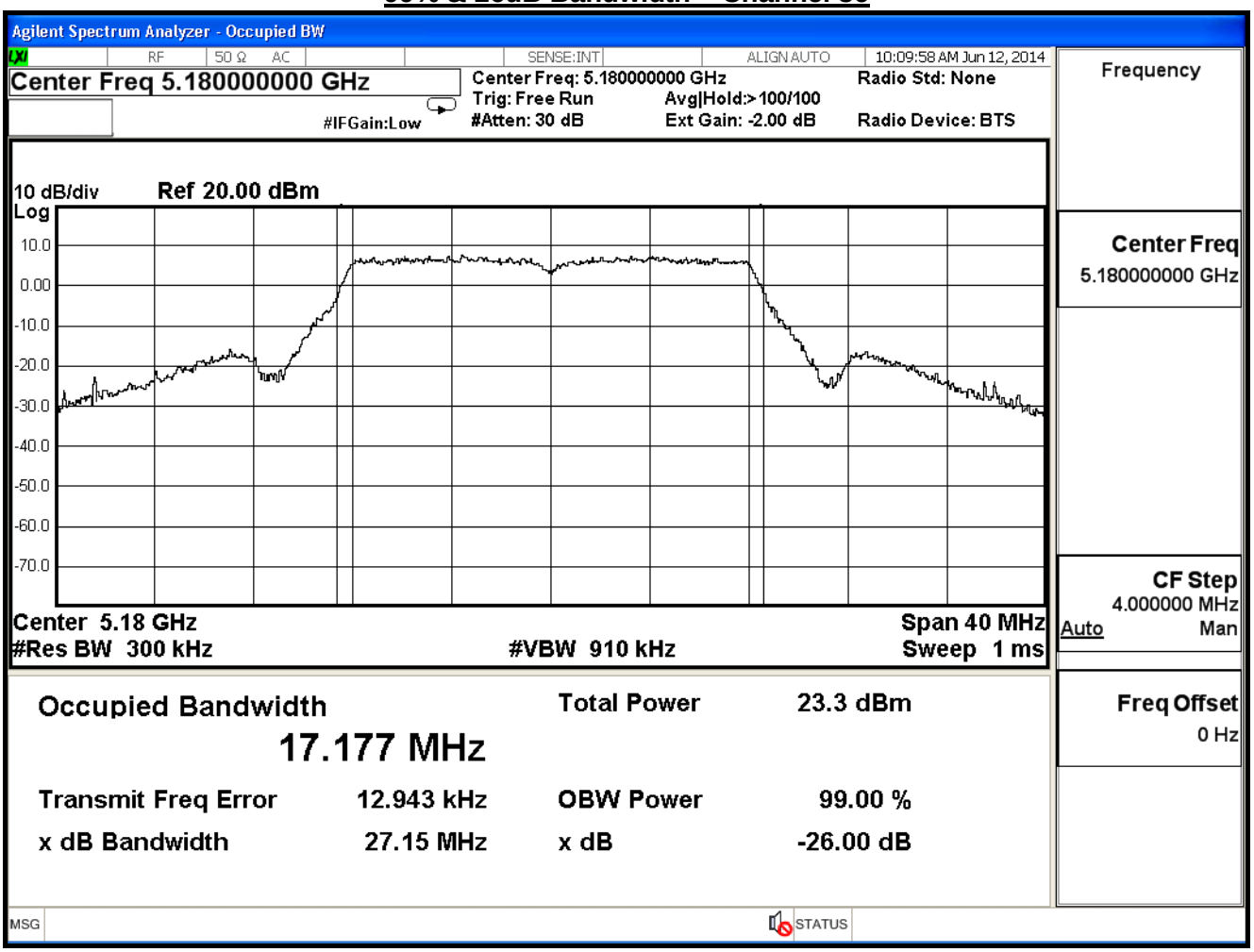
3.6. Test Result

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

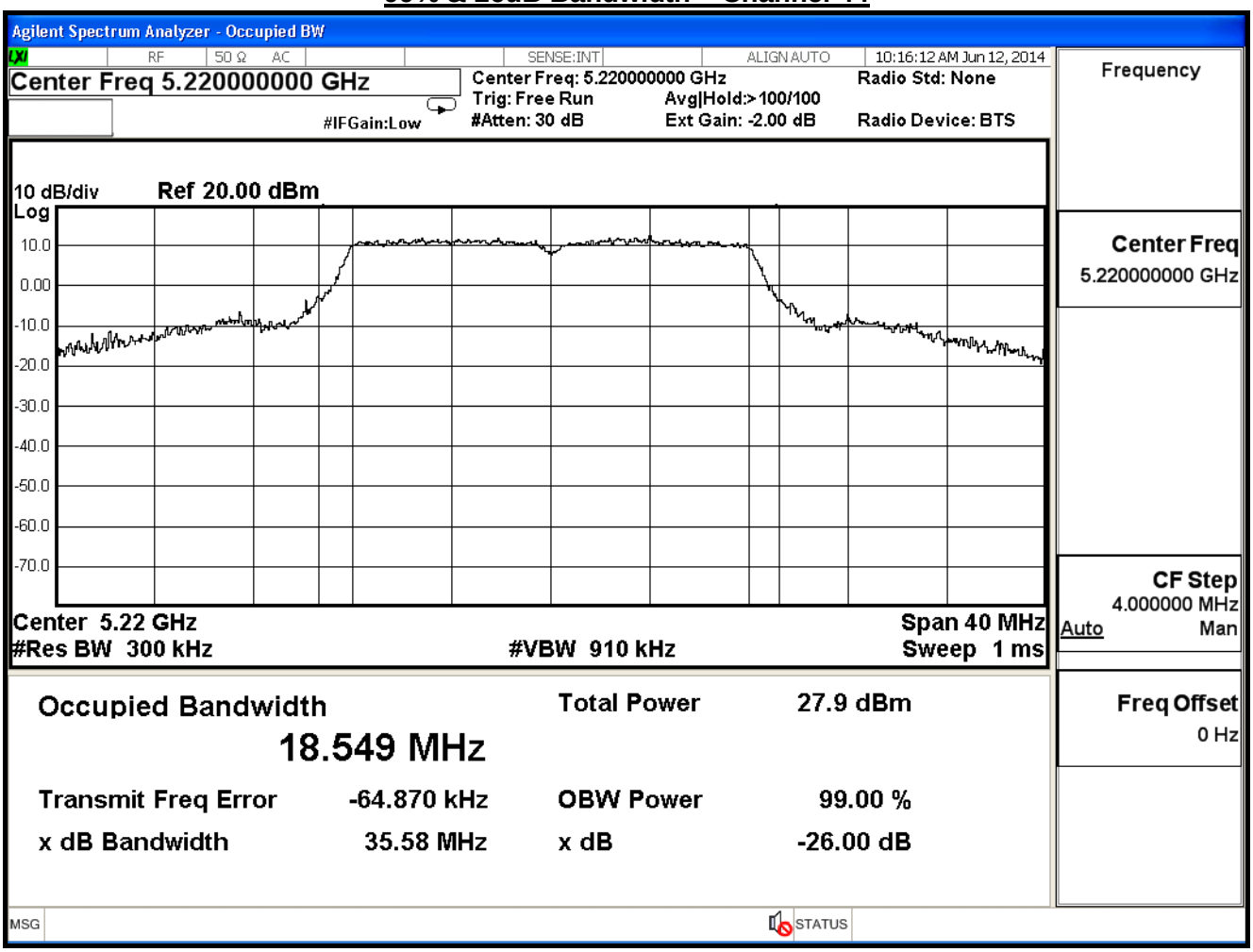
802.11a (ANT 0)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Required Limit (MHz)	Result
36	5180	27.150	17.777	--	Pass
44	5220	35.580	18.549	--	Pass
48	5240	36.630	18.549	--	Pass

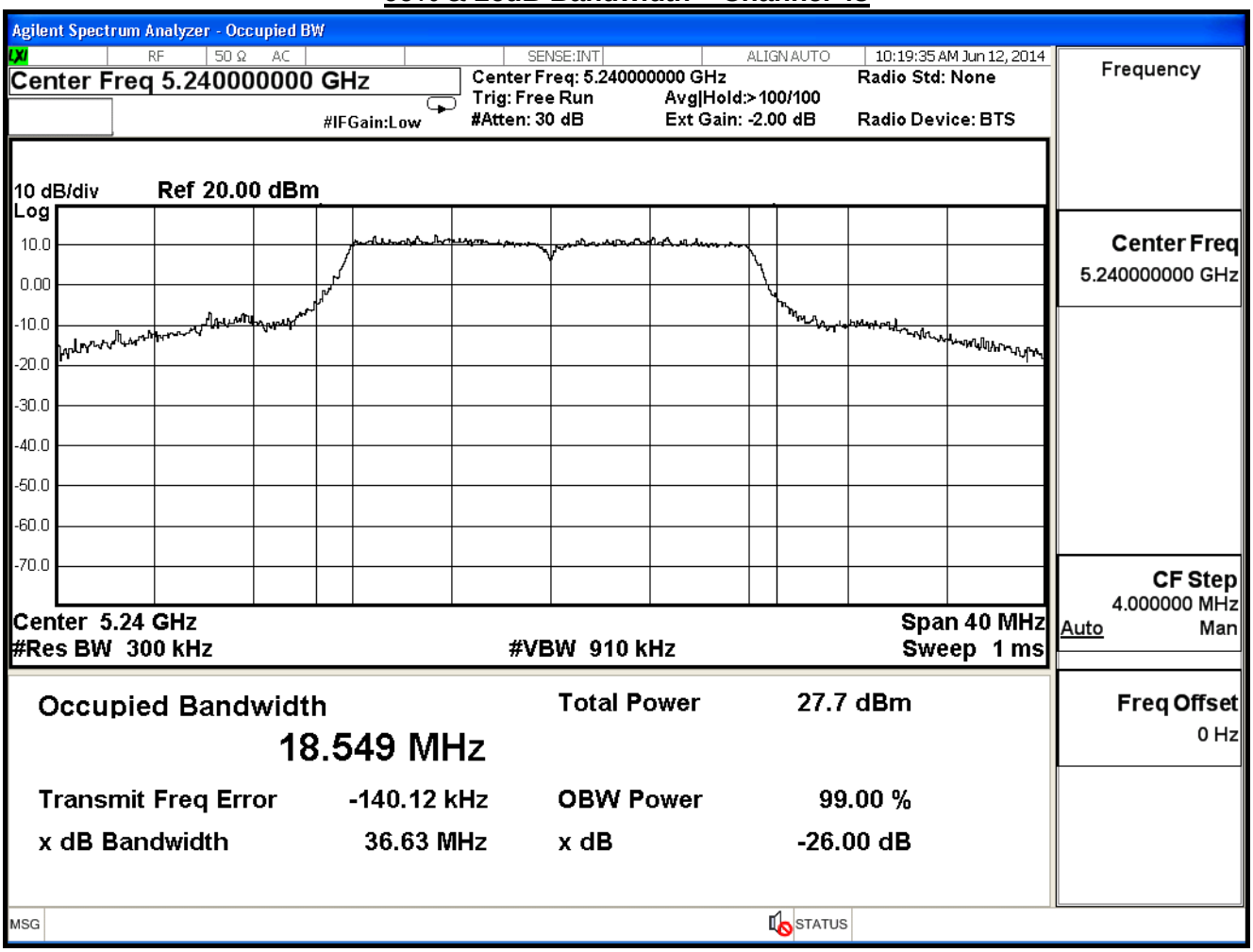
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

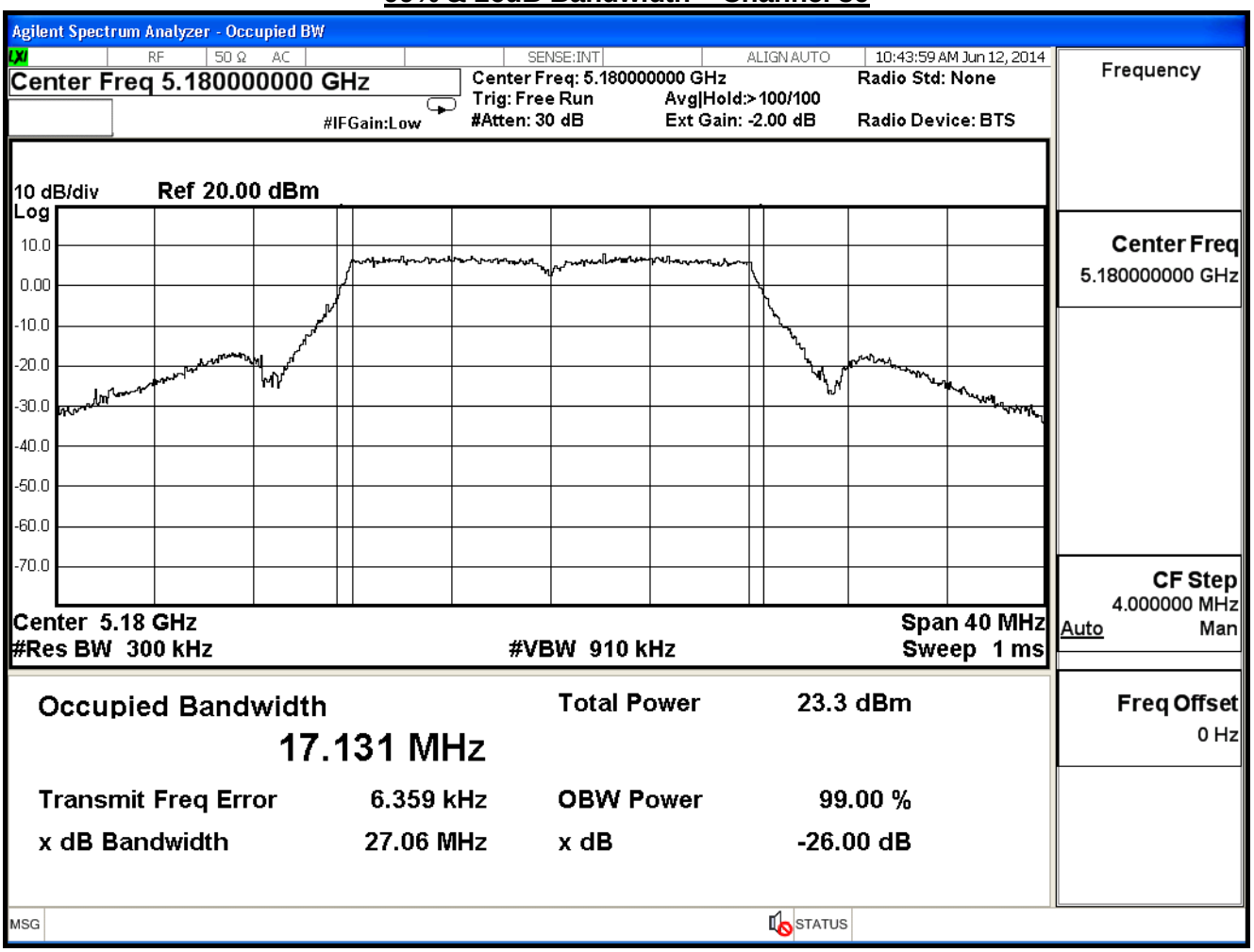


Product	Gigabit Router Dual-band Wireless-N900		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

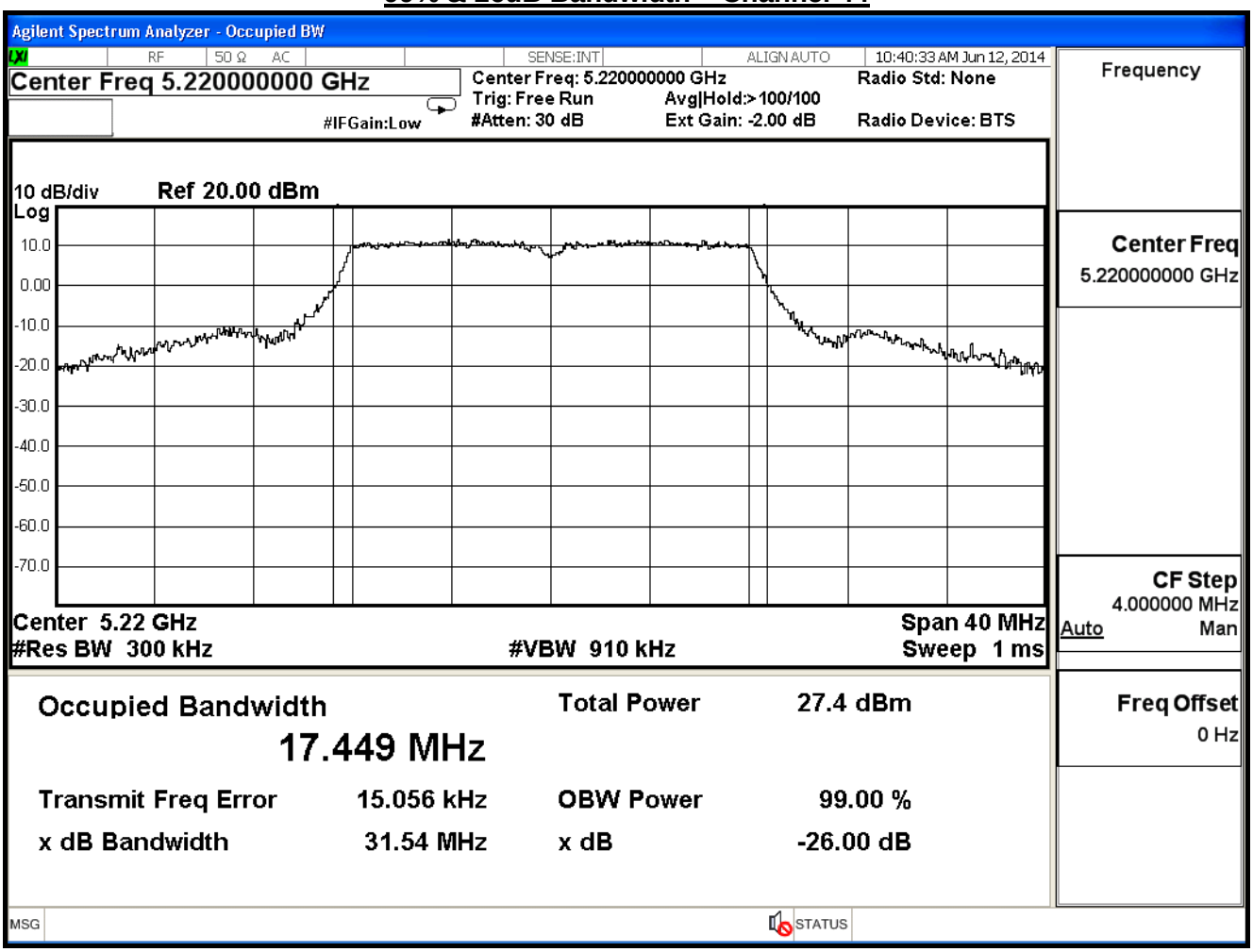
802.11a (ANT 1)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Required Limit (MHz)	Result
36	5180	27.060	17.131	--	Pass
44	5220	31.540	17.449	--	Pass
48	5240	31.600	17.662	--	Pass

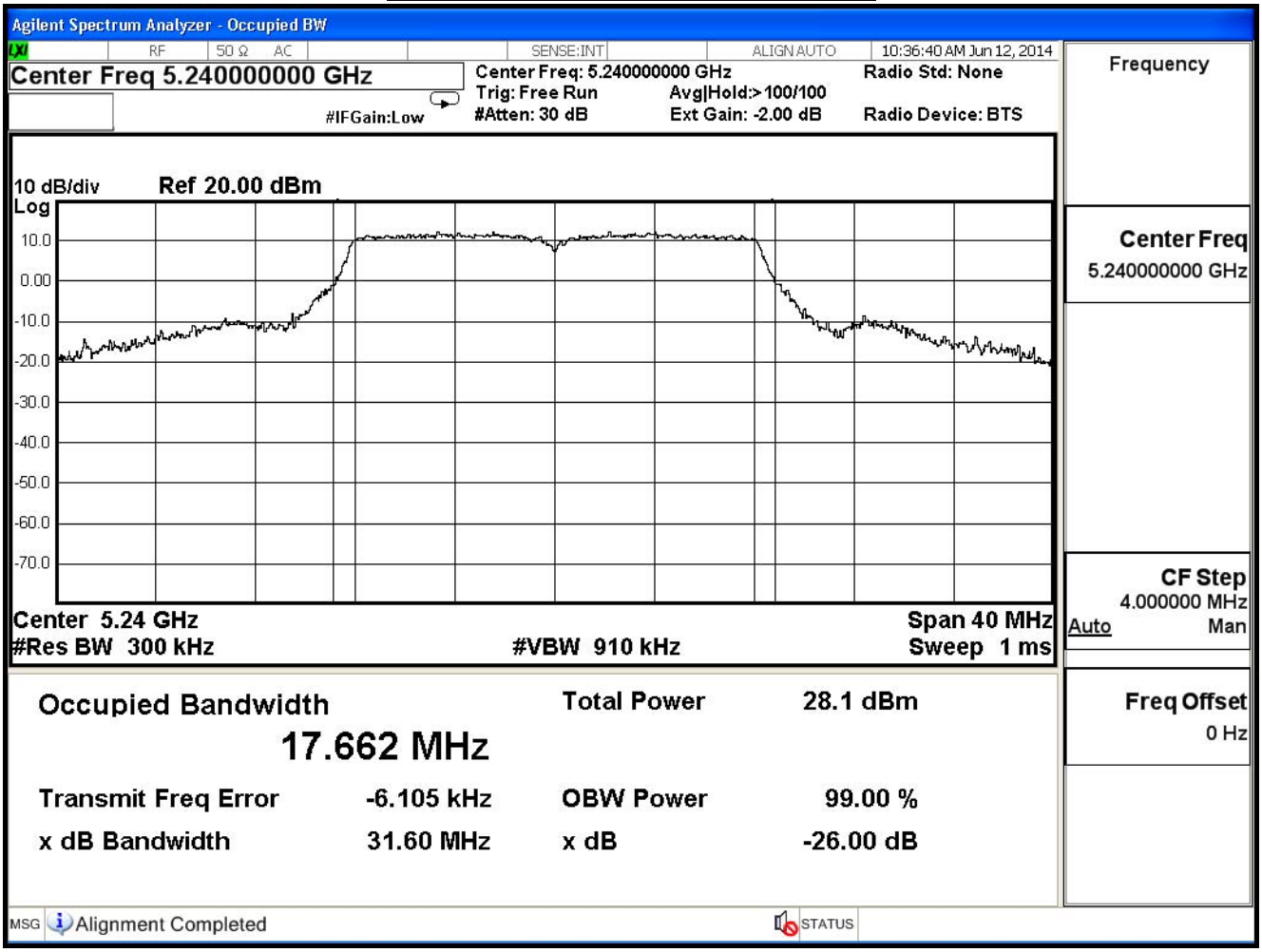
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

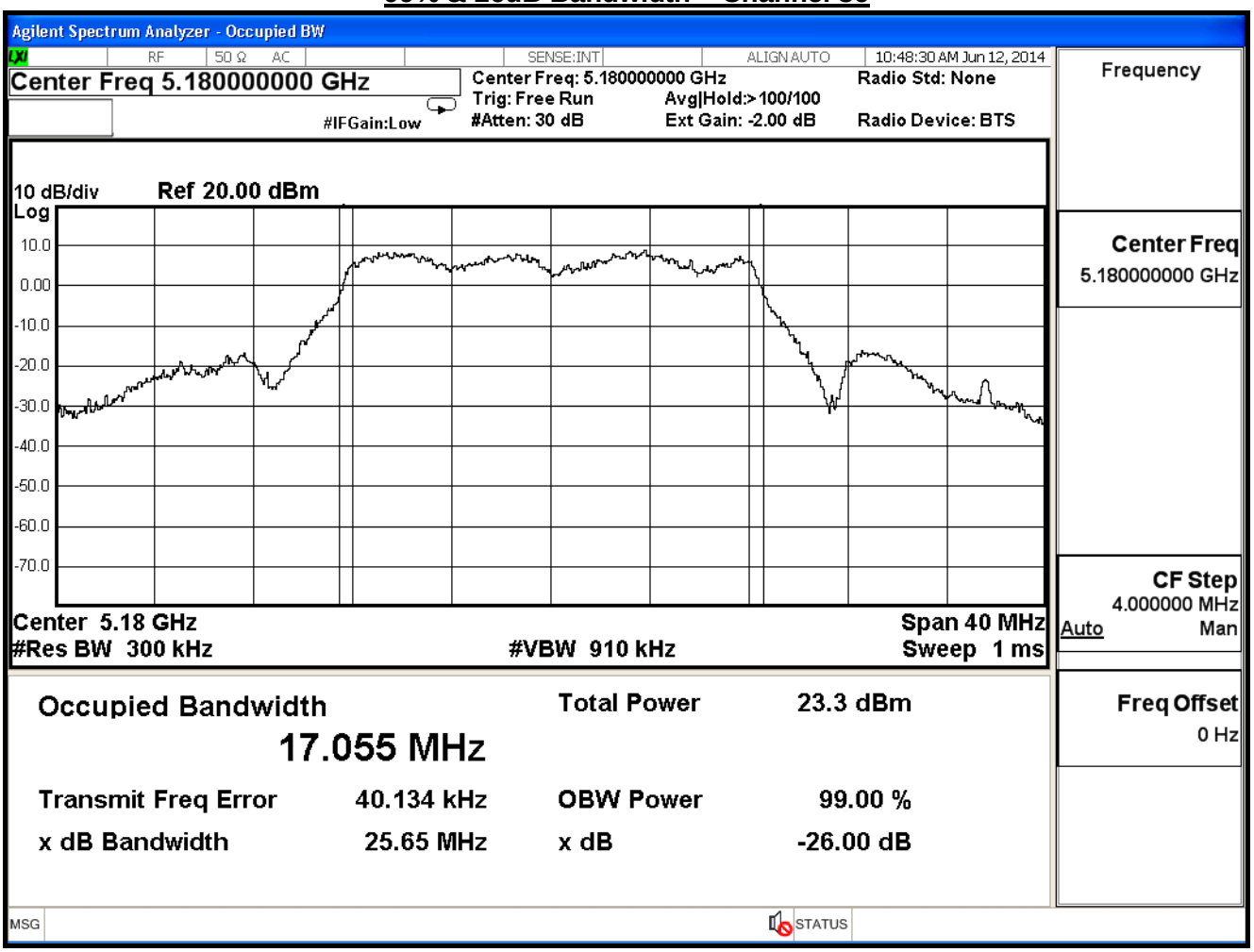


Product	Gigabit Router Dual-band Wireless-N900		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

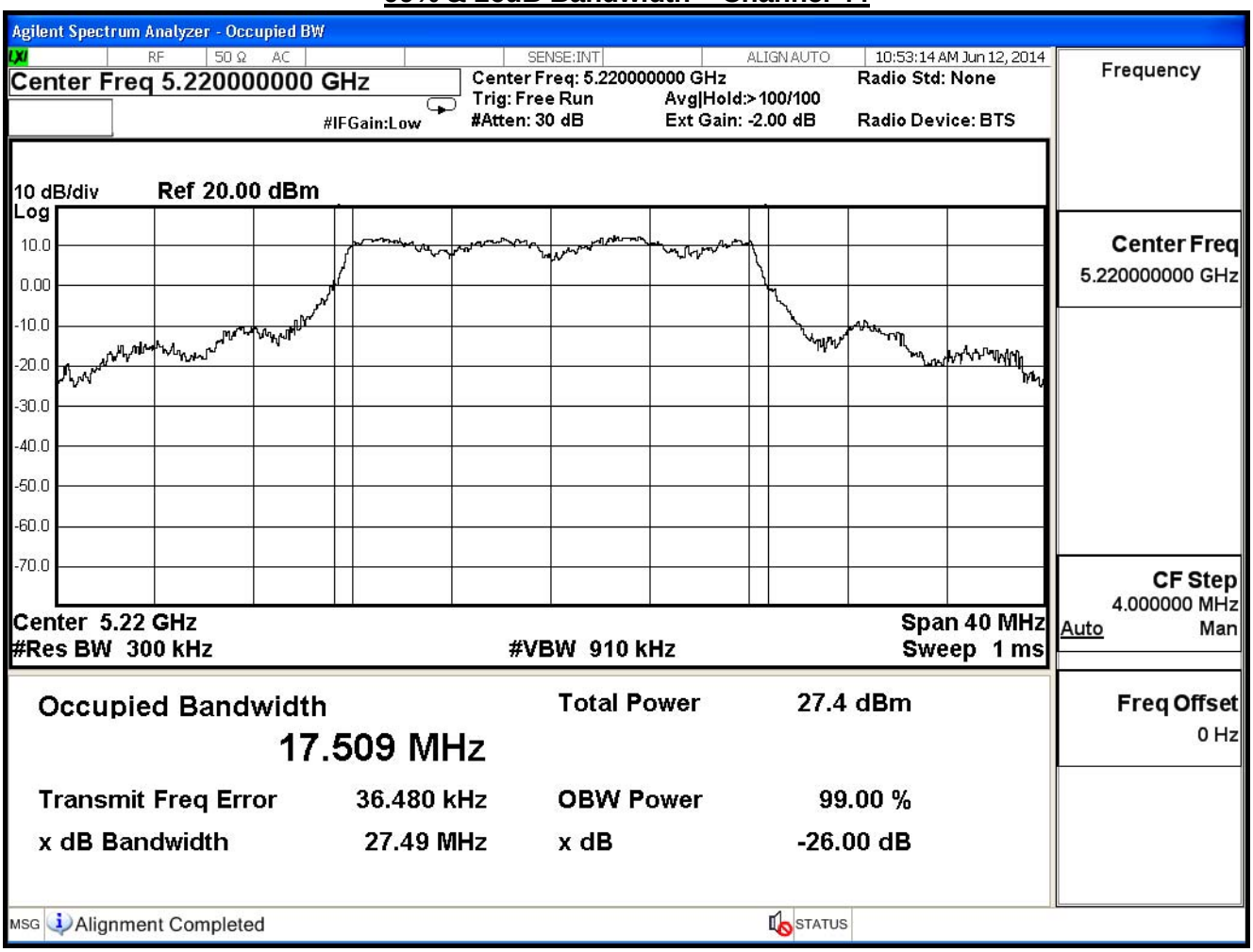
802.11a (ANT 2)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Required Limit (MHz)	Result
36	5180	25.650	17.055	--	Pass
44	5220	27.490	17.509	--	Pass
48	5240	27.650	17.402	--	Pass

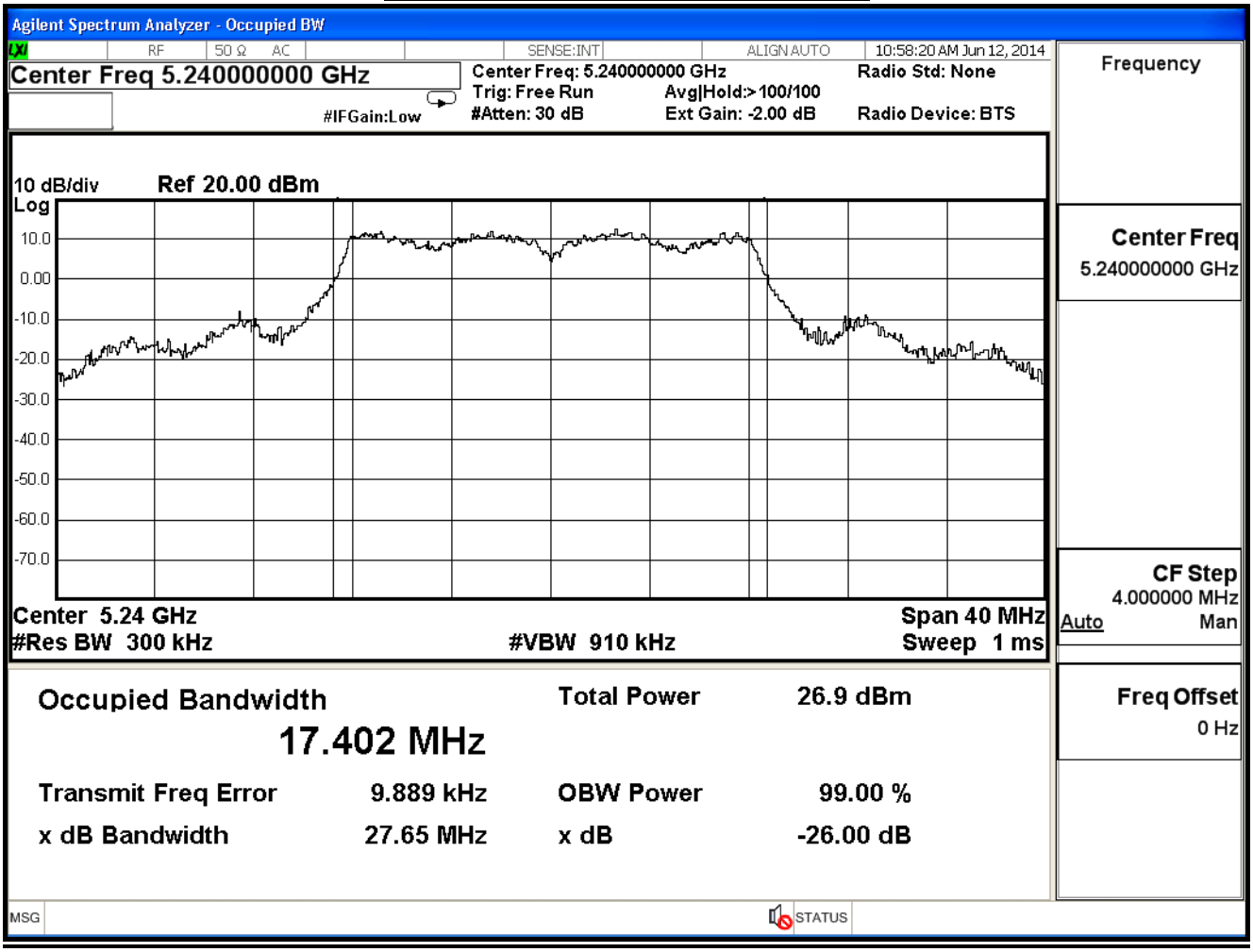
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

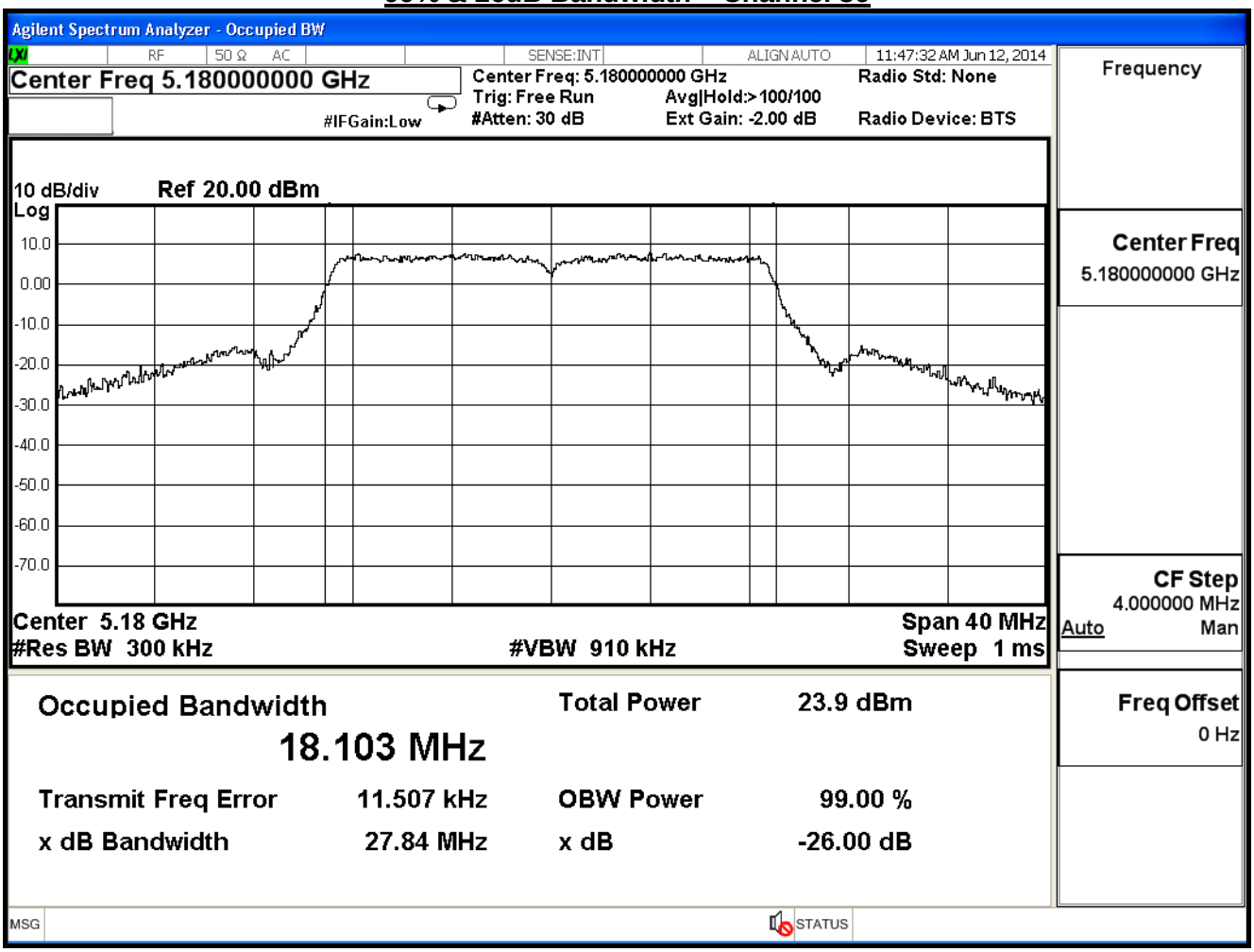


Product	Gigabit Router Dual-band Wireless-N900		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

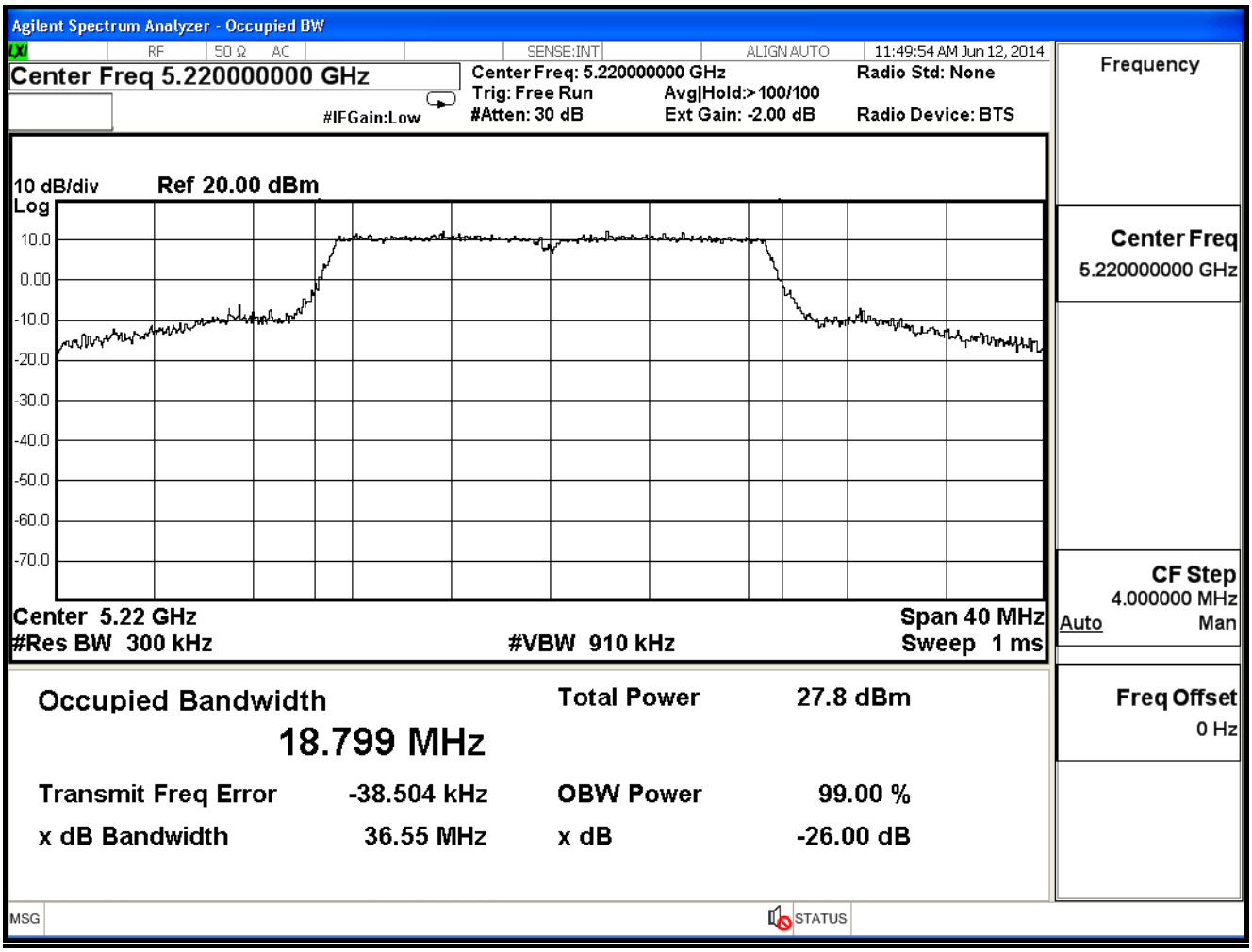
802.11n_20M(ANT 0)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Required Limit (MHz)	Result
36	5180	27.840	18.103	--	Pass
44	5220	36.550	18.799	--	Pass
48	5240	38.460	19.178	--	Pass

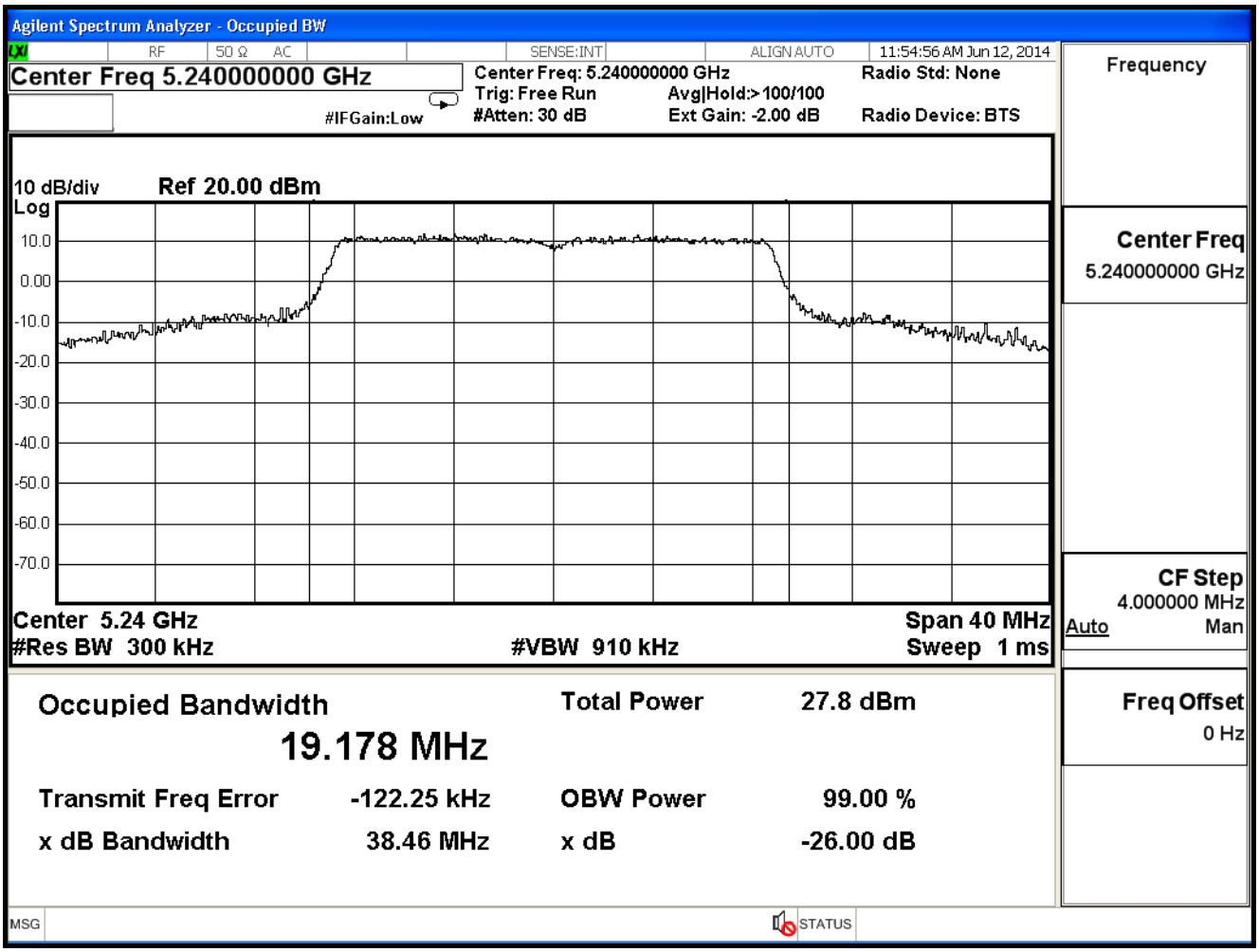
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

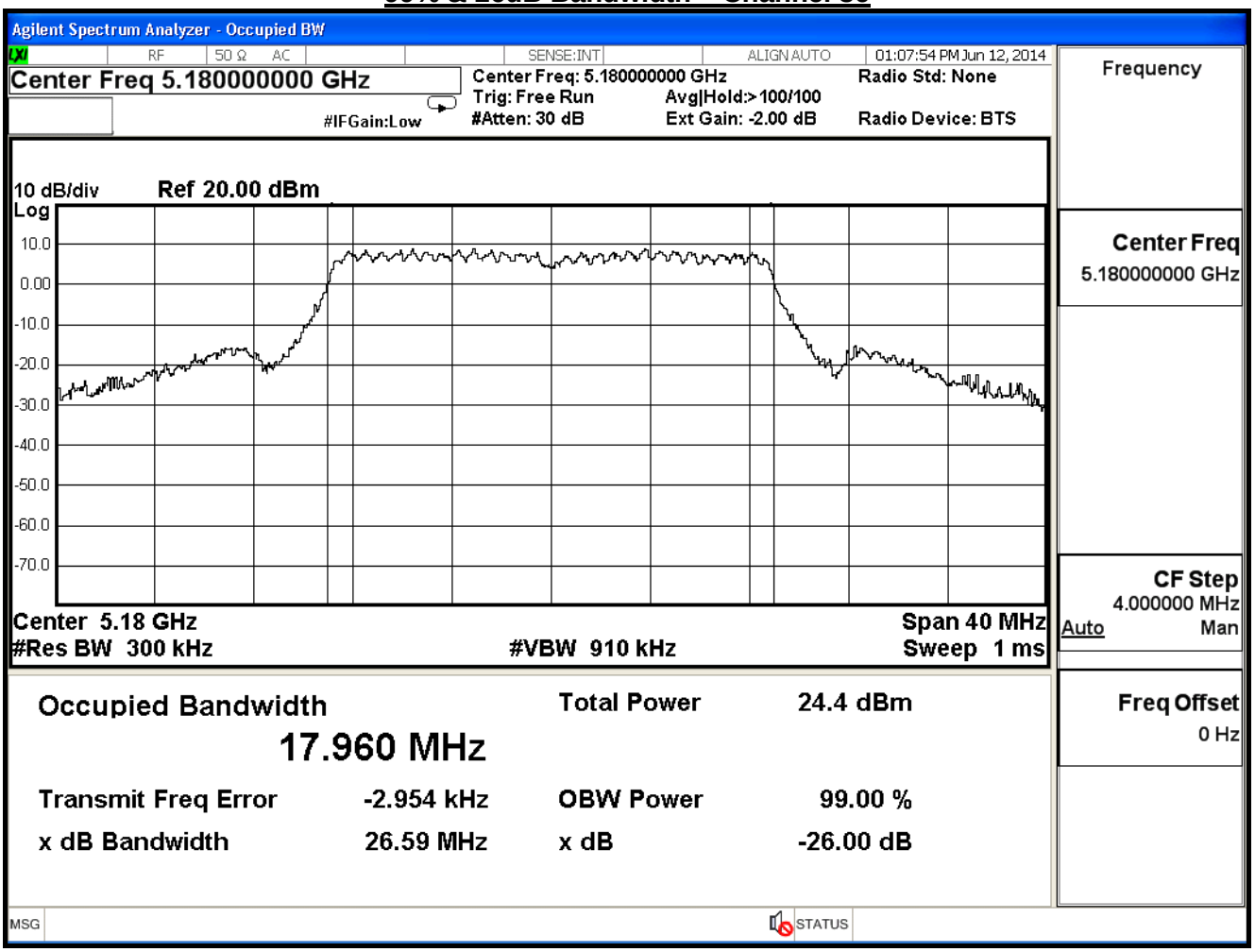


Product	Gigabit Router Dual-band Wireless-N900		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

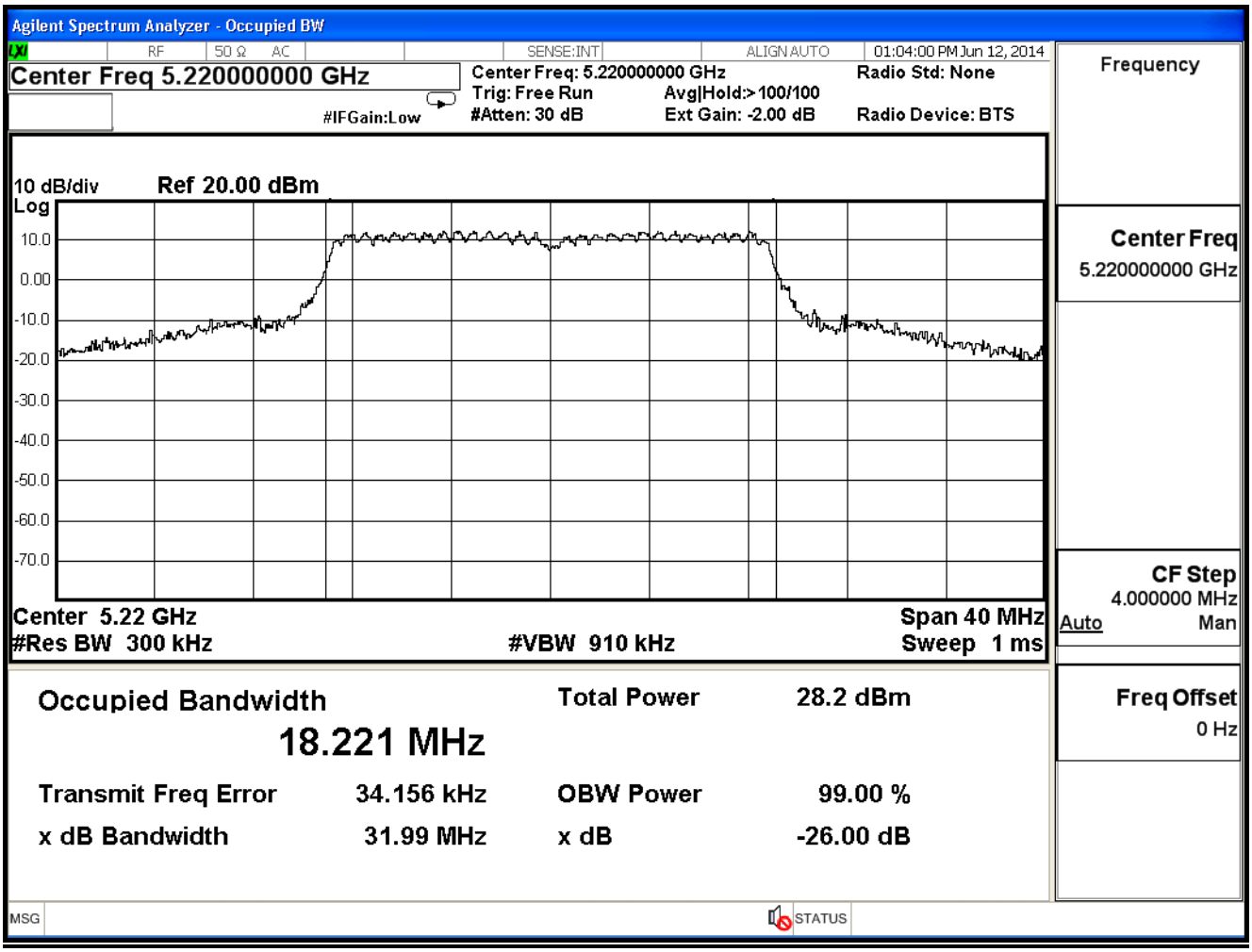
802.11n_20M(ANT 1)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Required Limit (MHz)	Result
36	5180	26.590	17.960	--	Pass
44	5220	31.990	18.221	--	Pass
48	5240	31.610	18.095	--	Pass

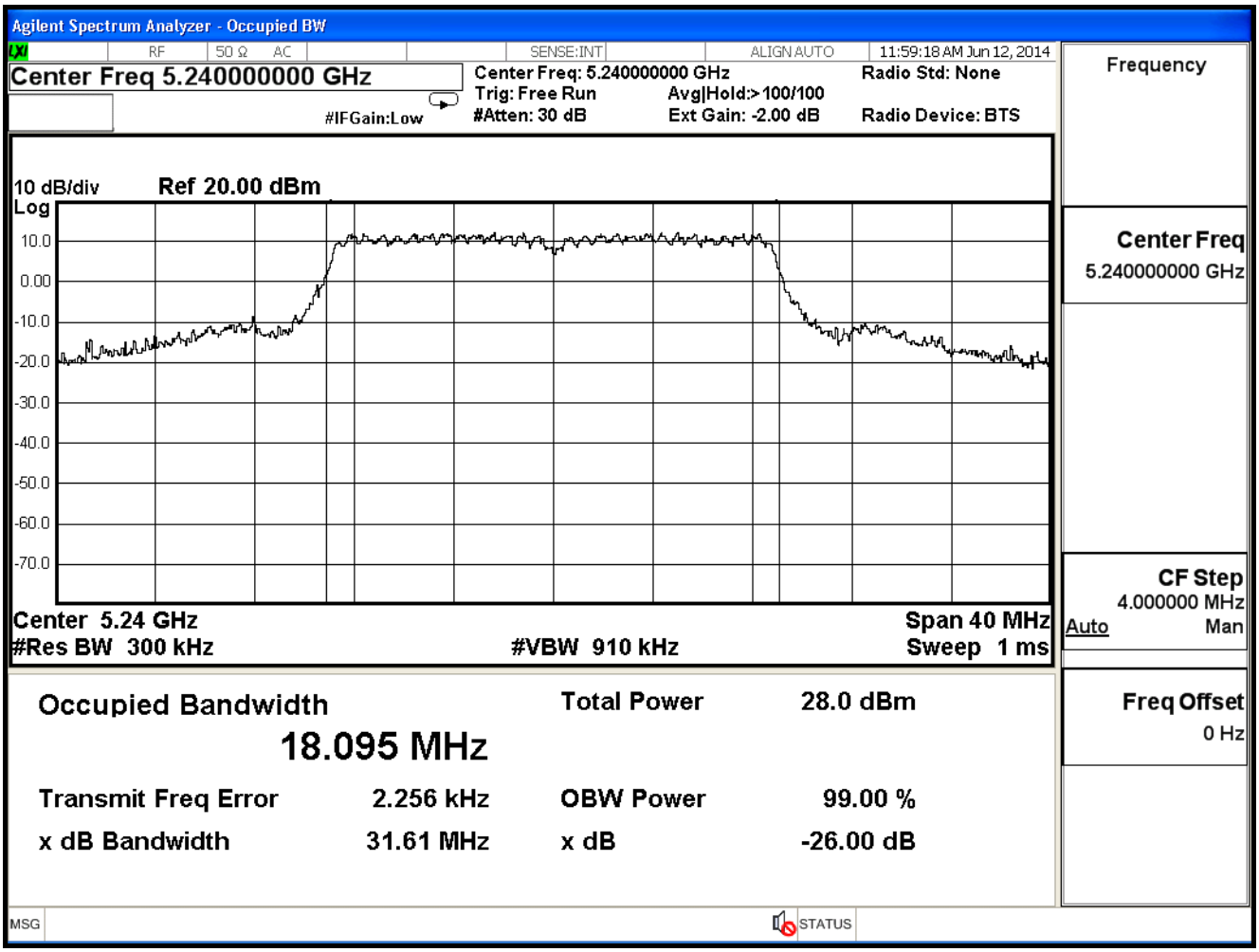
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

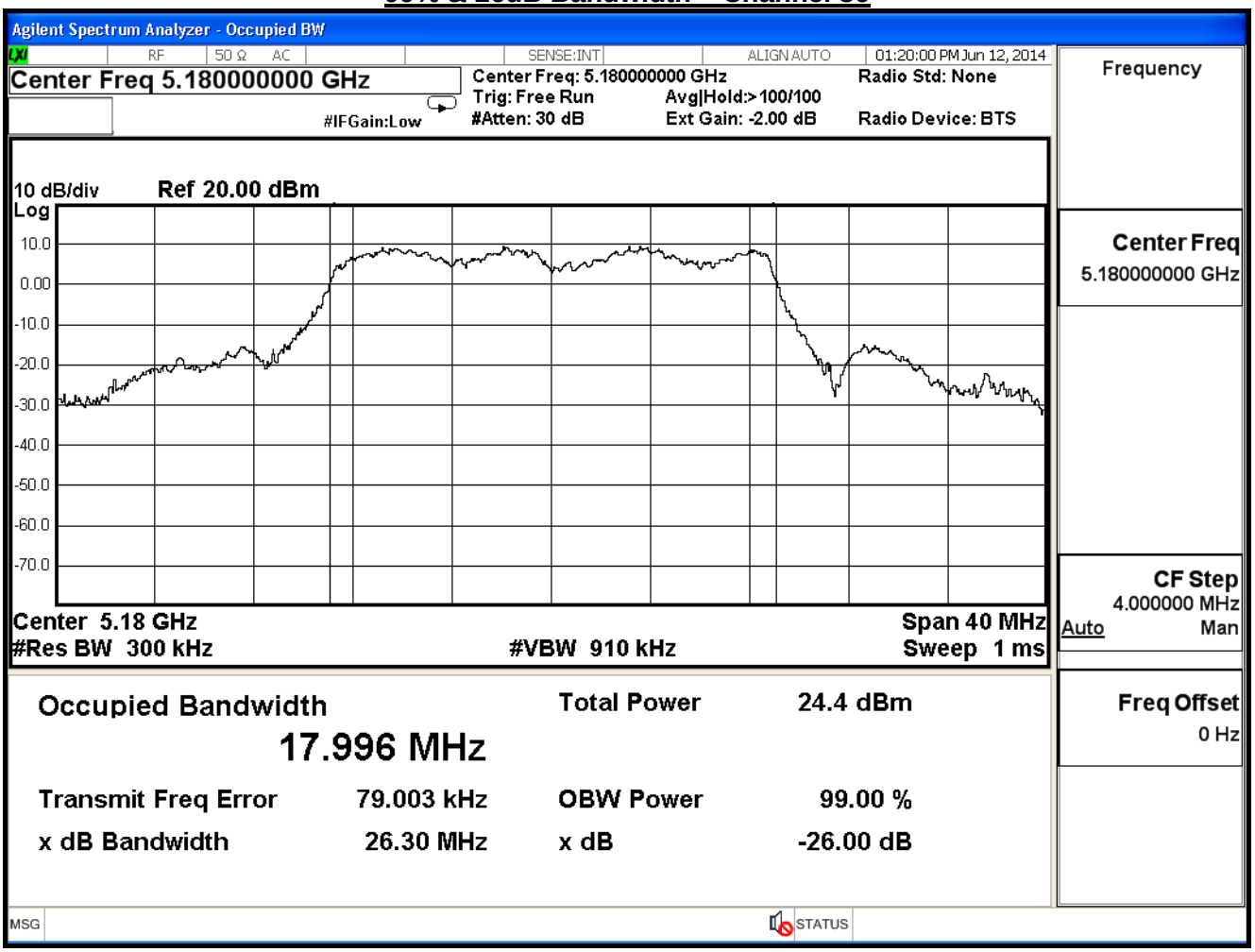


Product	Gigabit Router Dual-band Wireless-N900		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

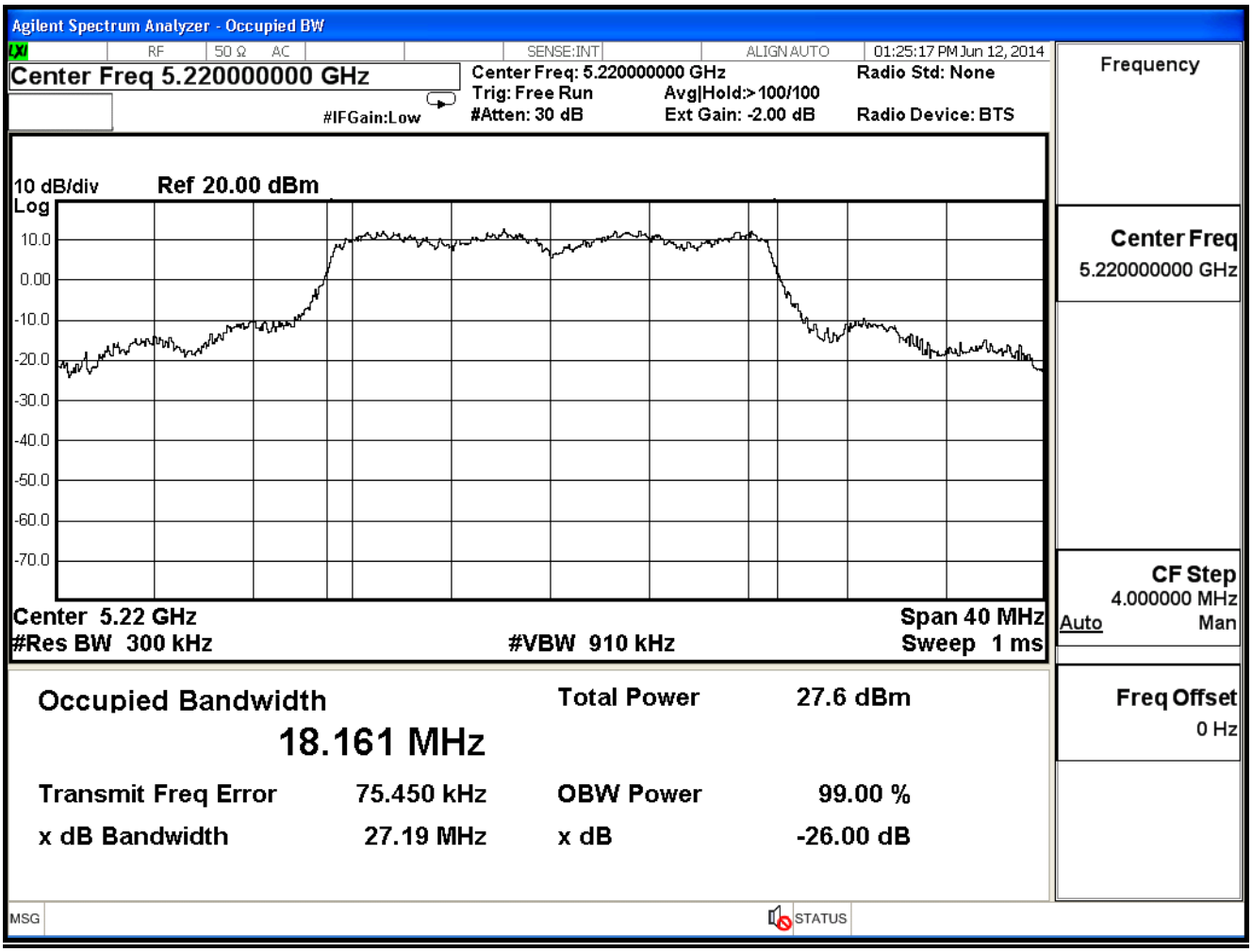
802.11n_20M(ANT 2)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Required Limit (MHz)	Result
36	5180	26.300	17.996	--	Pass
44	5220	27.190	18.161	--	Pass
48	5240	27.890	18.128	--	Pass

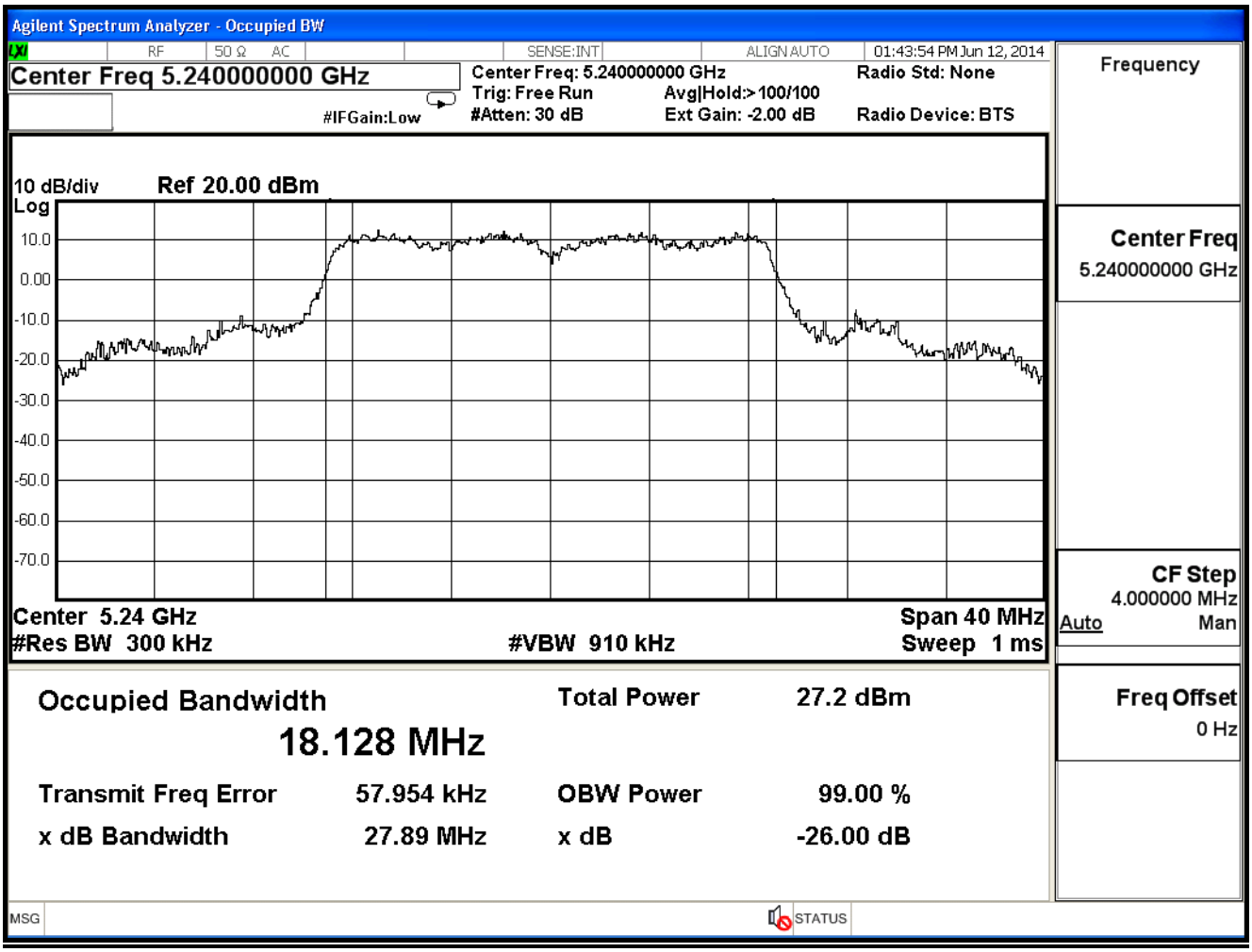
99% & 26dB Bandwidth – Channel 36



99% & 26dB Bandwidth – Channel 44



99% & 26dB Bandwidth – Channel 48

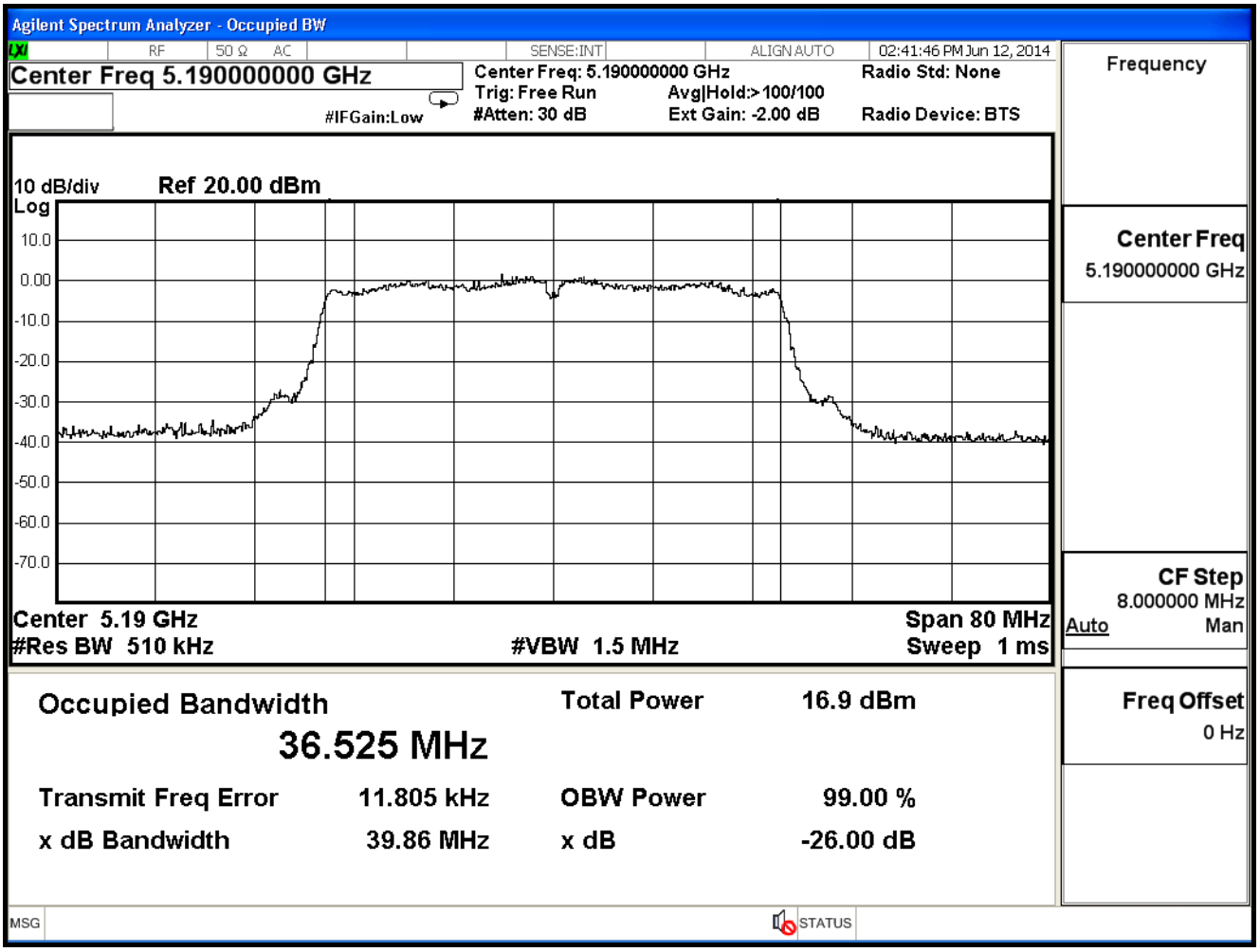


Product	Gigabit Router Dual-band Wireless-N900		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

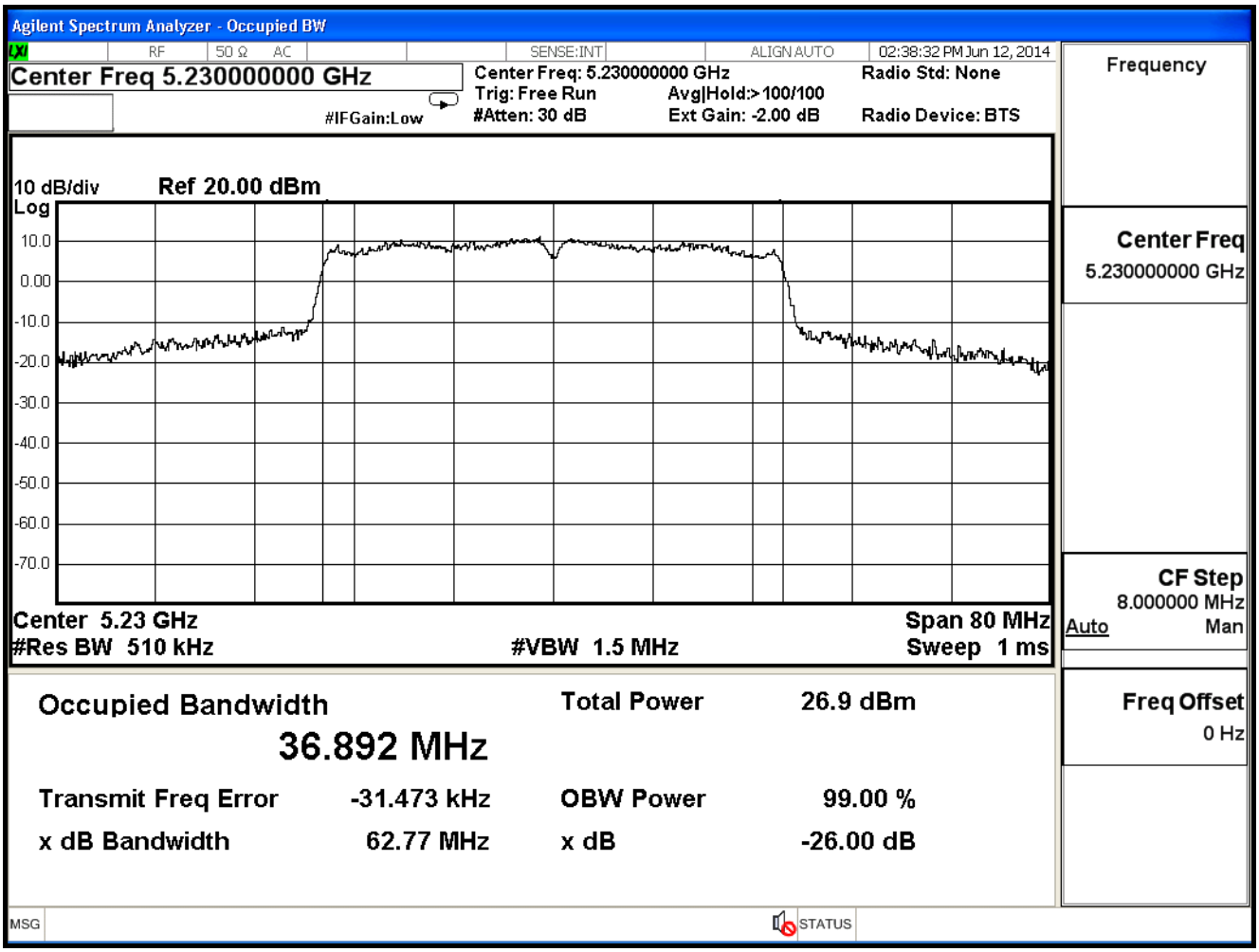
802.11n_40M(ANT 0)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Required Limit (MHz)	Result
38	5190	39.860	36.525	--	Pass
46	5230	62.770	36.892	--	Pass

99% & 26dB Bandwidth – Channel 38



99% & 26dB Bandwidth – Channel 46

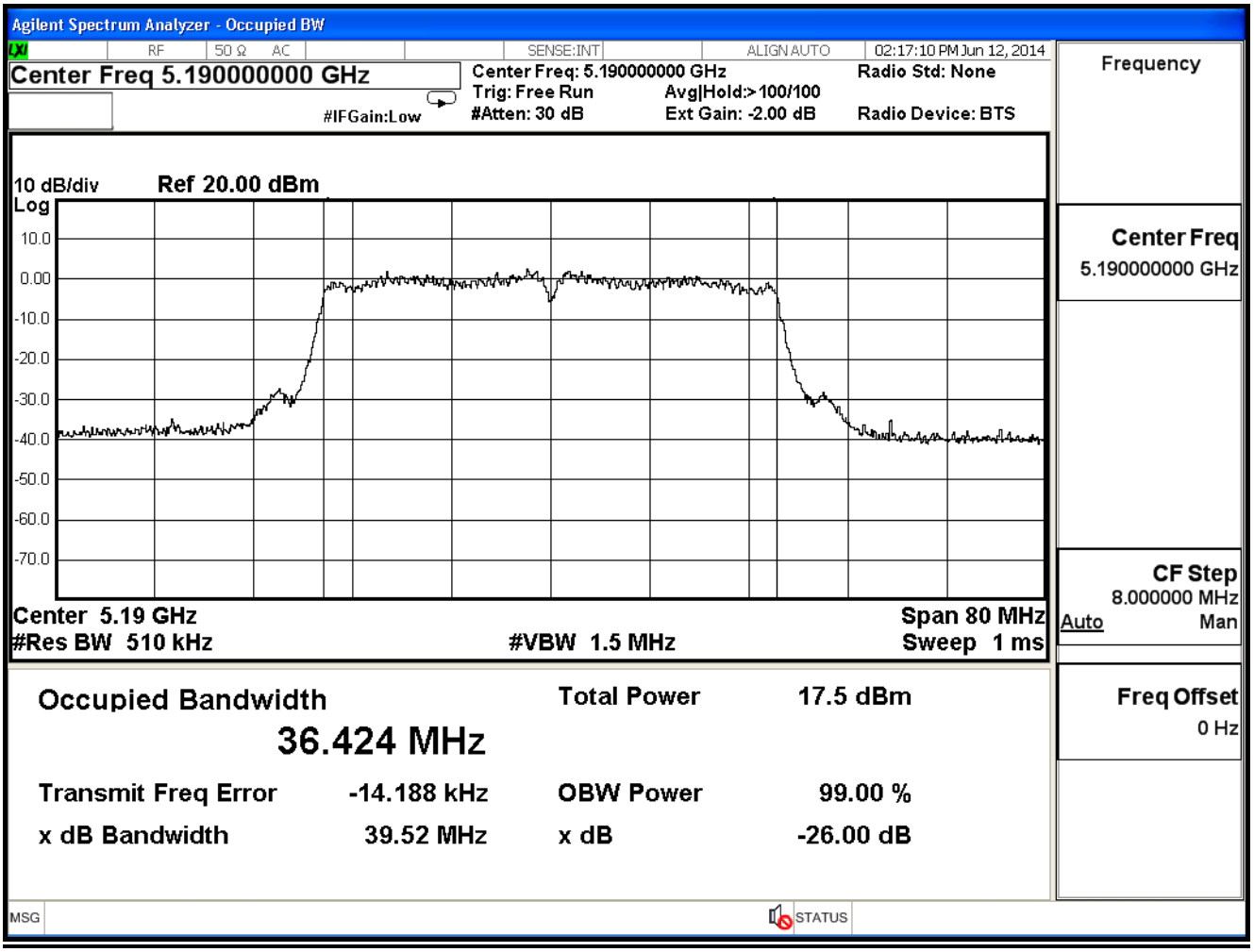


Product	Gigabit Router Dual-band Wireless-N900		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

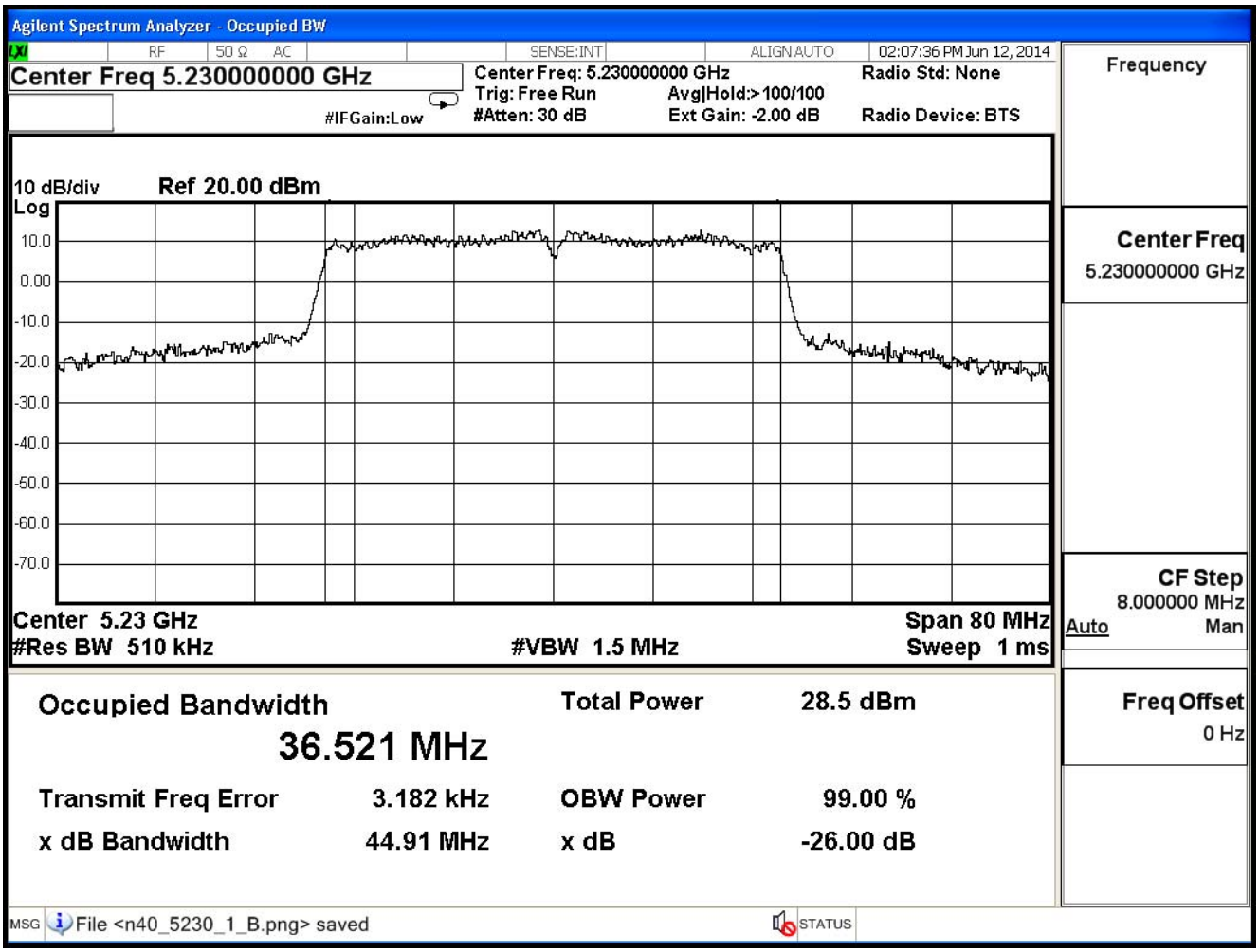
802.11n_40M(ANT 1)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Required Limit (MHz)	Result
38	5190	39.520	36.424	--	Pass
46	5230	44.910	36.521	--	Pass

99% & 26dB Bandwidth – Channel 38



99% & 26dB Bandwidth – Channel 46

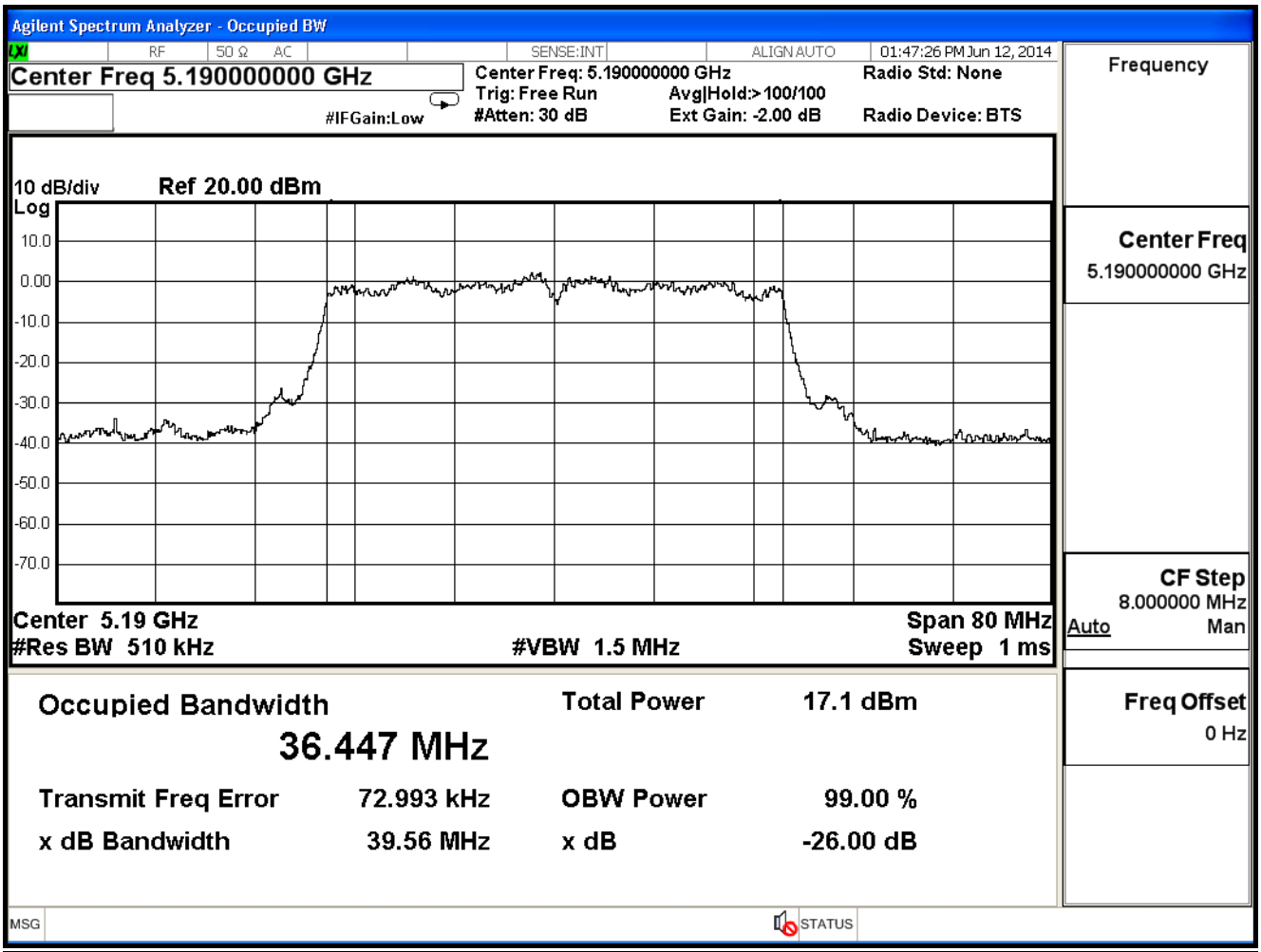


Product	Gigabit Router Dual-band Wireless-N900		
Test Item	99% & 26dB Bandwidth		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

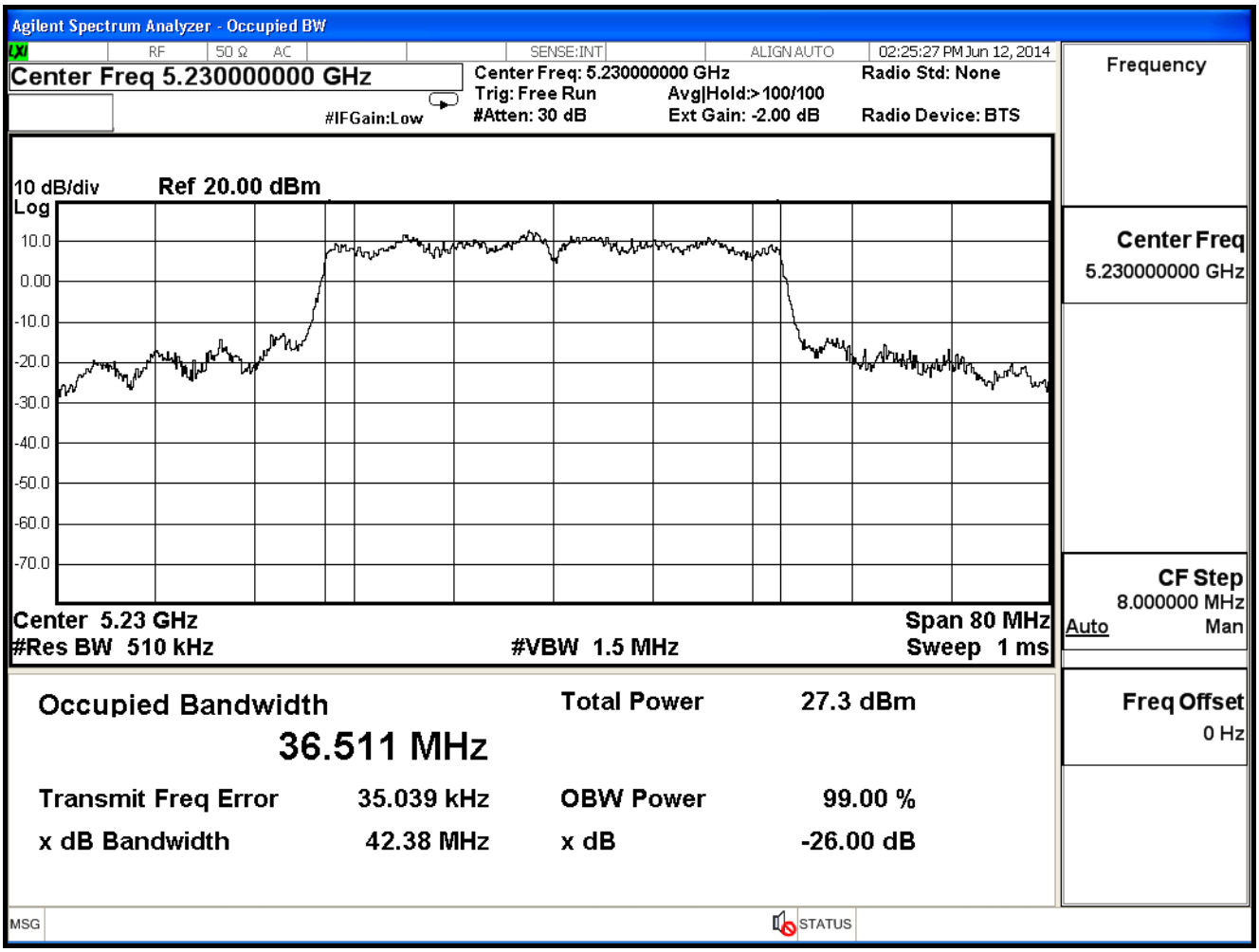
802.11n_40M(ANT 2)

Channel No.	Frequency (MHz)	26dB BW (MHz)	99 % OBW (MHz)	Required Limit (MHz)	Result
38	5190	39.560	36.447	--	Pass
46	5230	42.380	36.511	--	Pass

99% & 26dB Bandwidth – Channel 38



99% & 26dB Bandwidth – Channel 46



4. Peak Transmit Output

4.1. Test Equipment

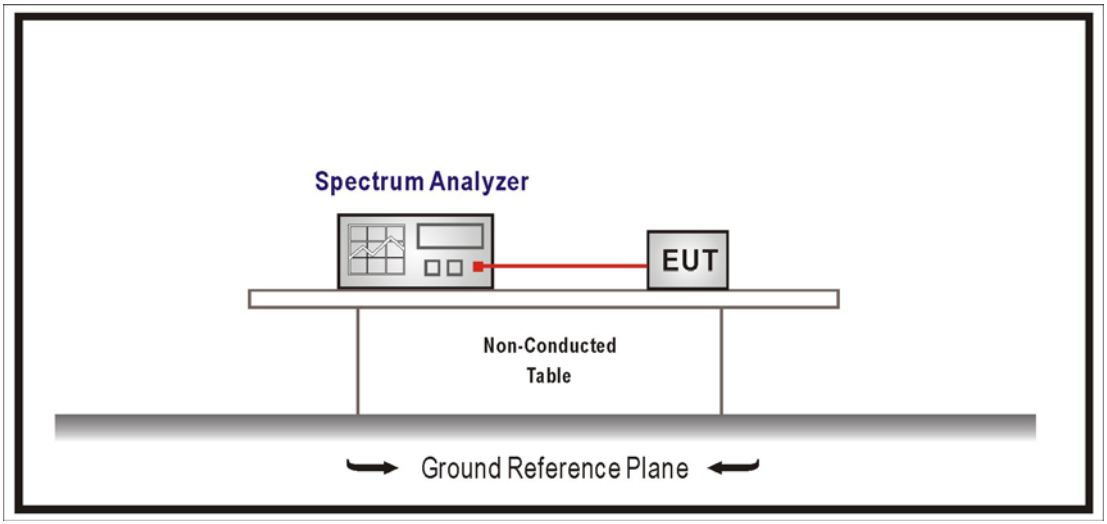
The following test equipments are used during the radiated emission tests:

Peak Transmit Output / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2014/08/05

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 1W or 4 dBm + 10log 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 dBm + 10log 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 dBm + 10log 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 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 ± 1.27 dB

4.6. Test Result

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

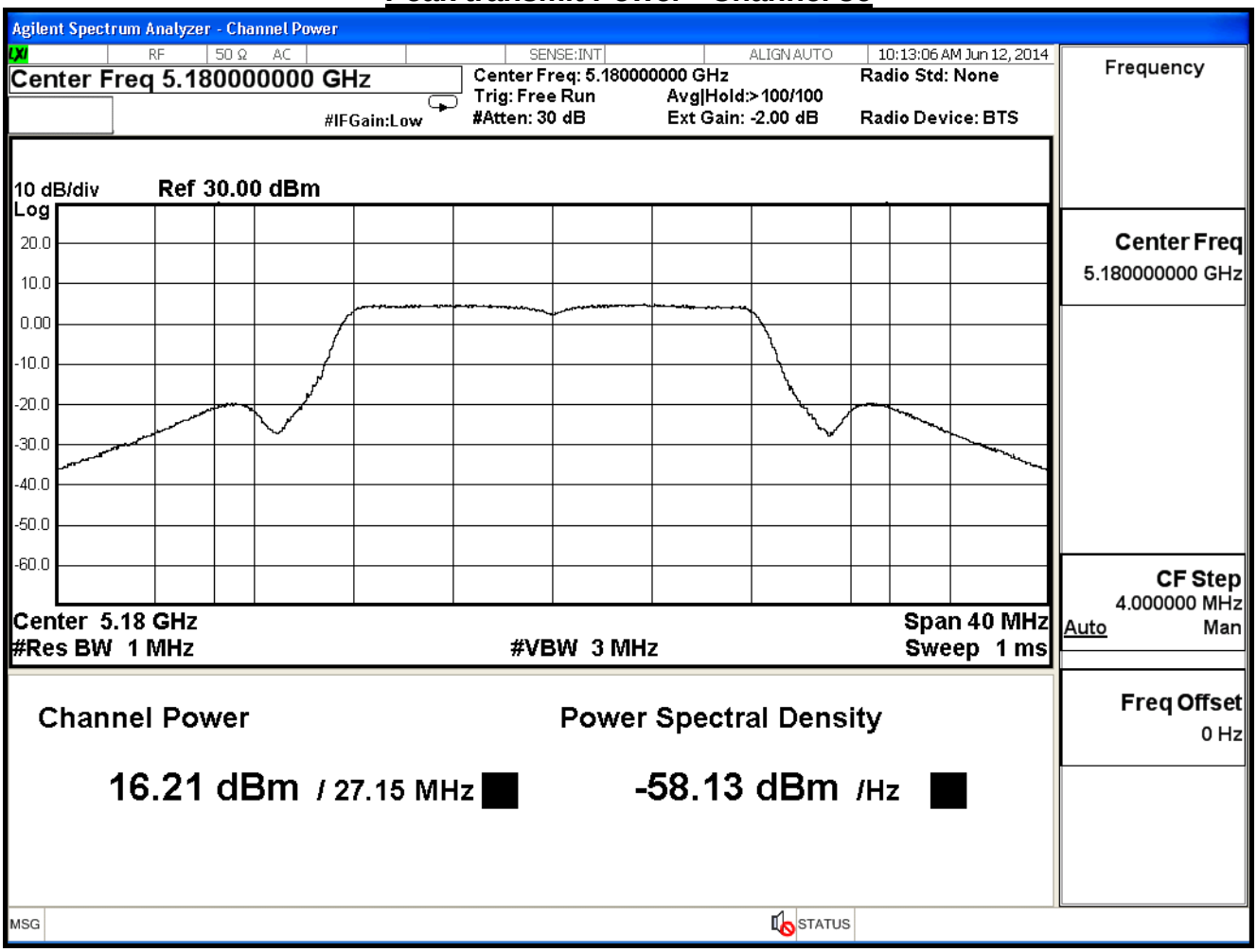
802.11a (ANT 0)

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit		Result
				Fixed Limit (dBm)	4+10logB Limit (dBm)	
36	5180	27.150	16.210	≤30	31.34	Pass
44	5220	35.580	20.690	≤30	32.51	Pass
48	5240	36.630	20.610	≤30	32.64	Pass

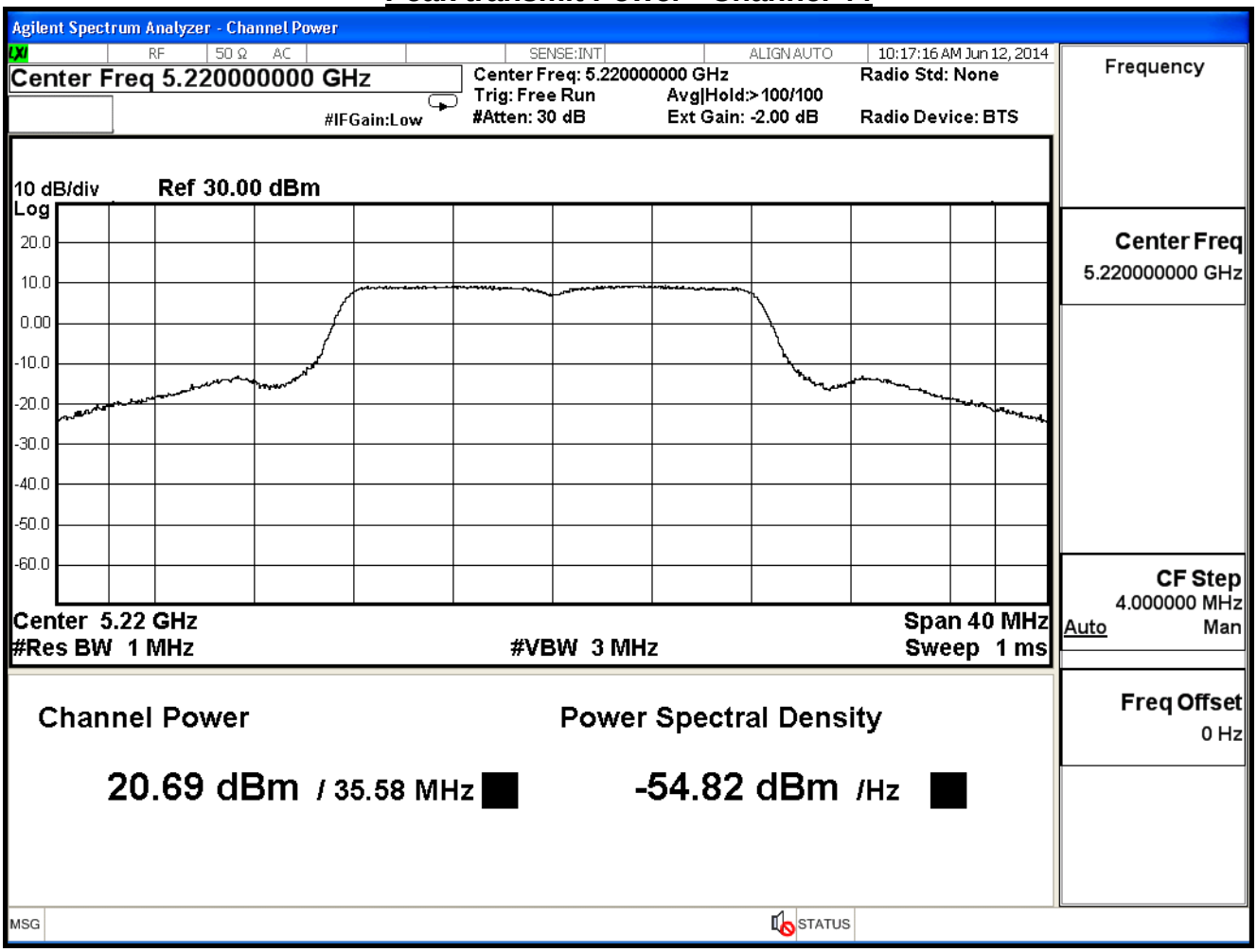
The worst emission of data rate is 6 Mbps.

Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
36	5180	16.210	--	--	--	--	--	--	30dBm or 4dBm+10logB
44	5220	20.690	20.59	20.39	20.29	20.09	19.97	19.73	
48	5240	20.610	--	--	--	--	--	--	

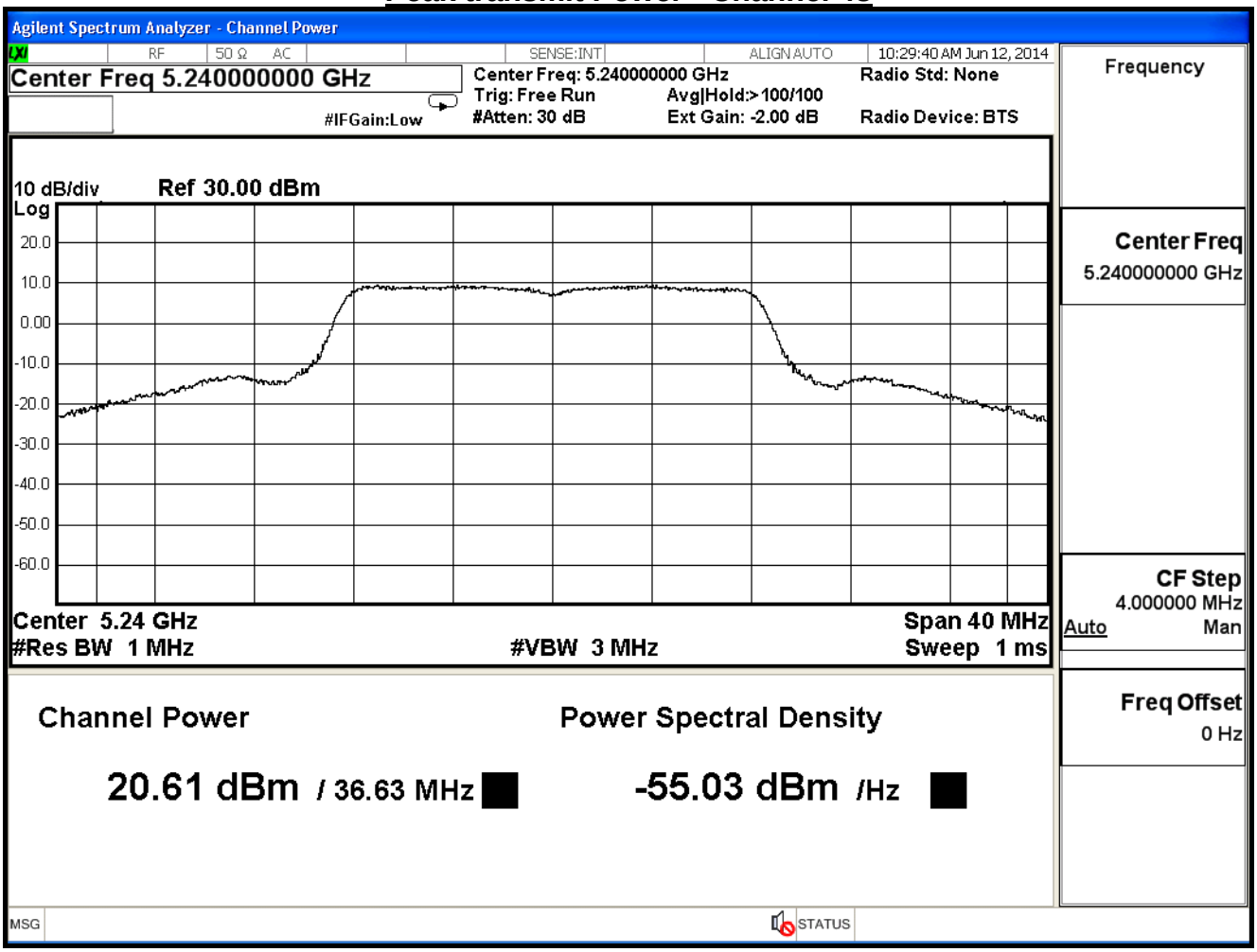
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

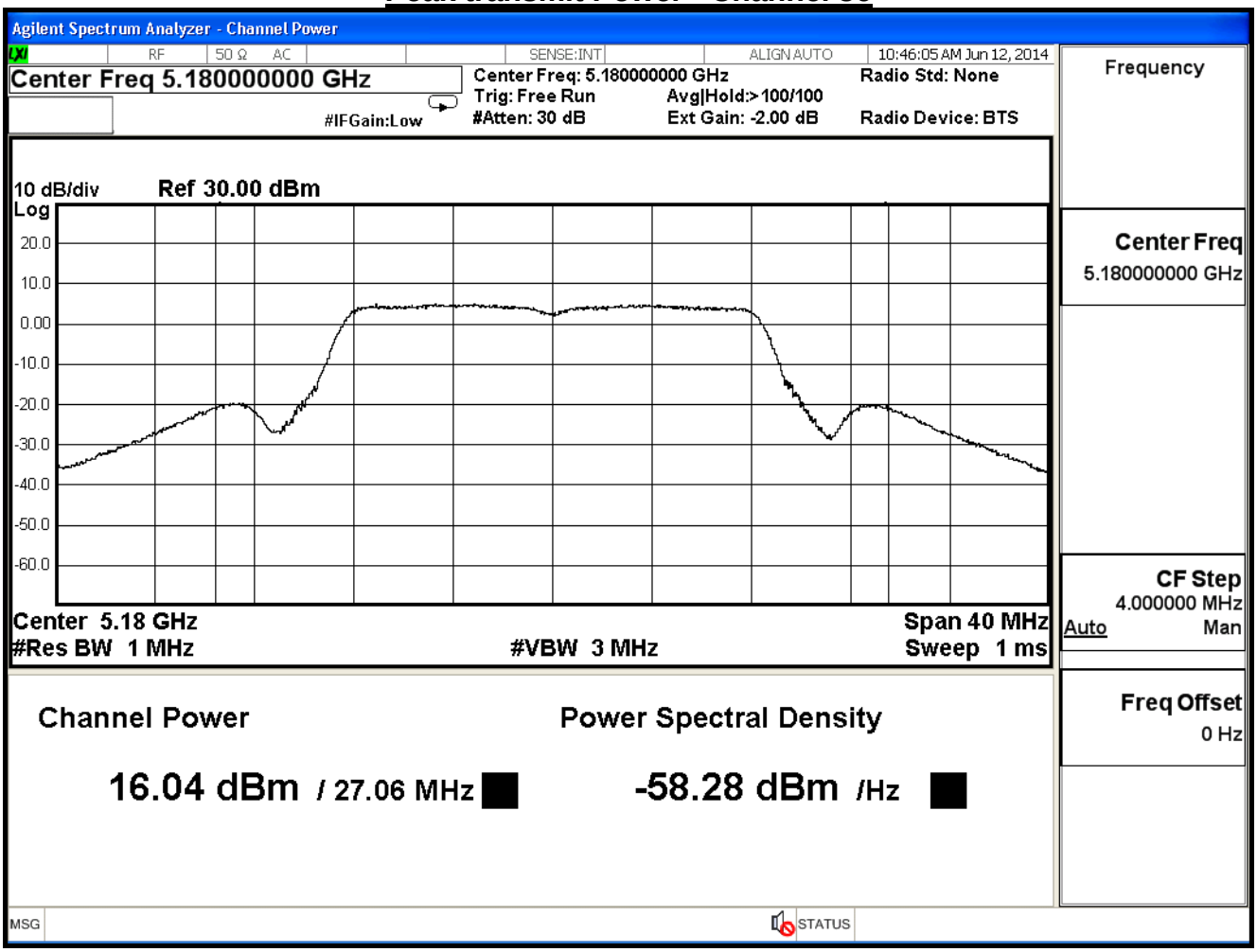
802.11a (ANT 1)

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit		Result
				Fixed Limit (dBm)	4+10logB Limit (dBm)	
36	5180	27.060	16.040	≤30	31.32	Pass
44	5220	31.540	20.260	≤30	31.99	Pass
48	5240	31.600	20.380	≤30	32.00	Pass

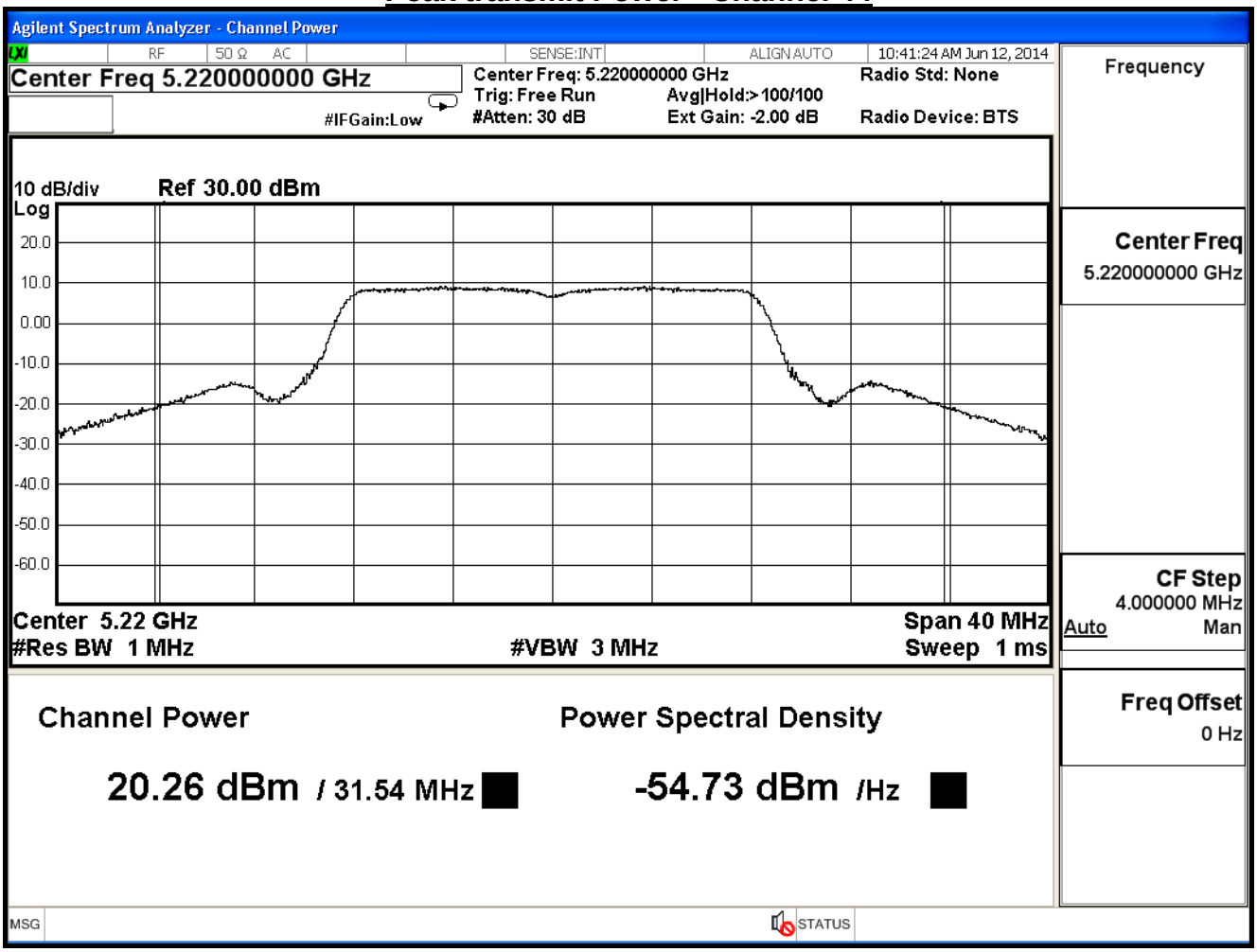
The worst emission of data rate is 6 Mbps.

Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
36	5180	16.040	--	--	--	--	--	--	30dBm or 4dBm+10logB
44	5220	20.260	20.06	19.96	19.76	19.56	19.44	19.20	
48	5240	20.380	--	--	--	--	--	--	

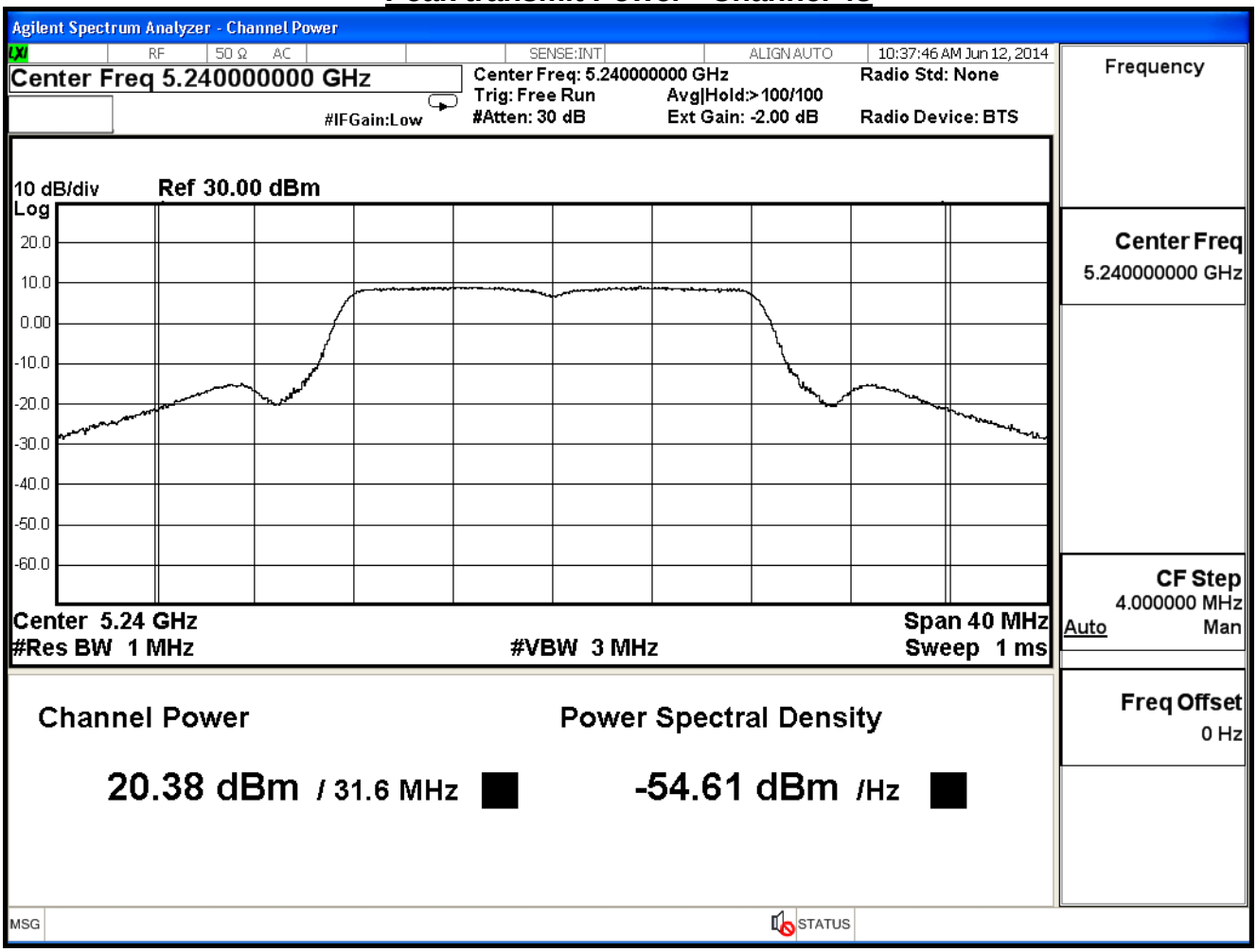
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

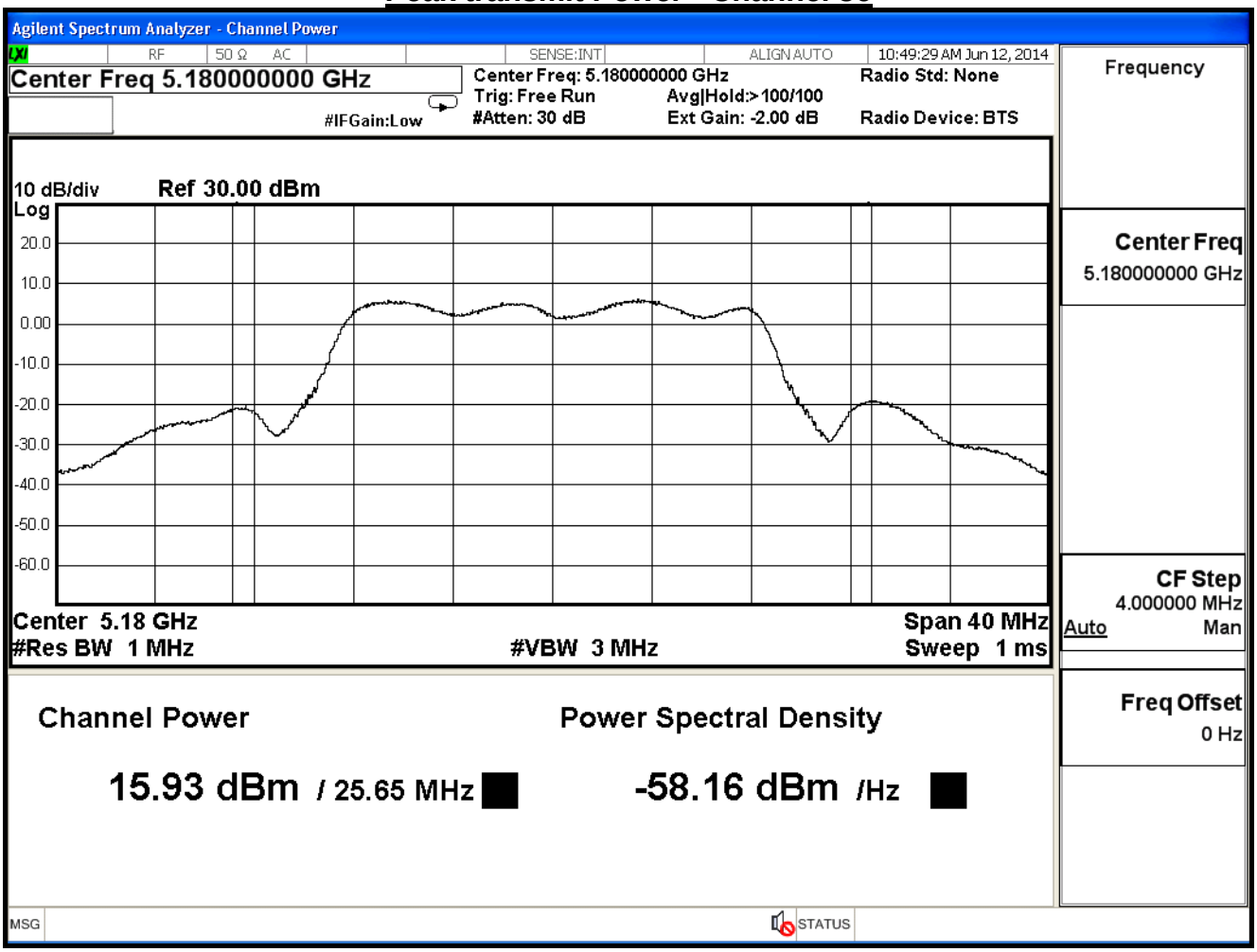
802.11a (ANT 2)

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit		Result
				Fixed Limit (dBm)	4+10logB Limit (dBm)	
36	5180	25.650	15.930	≤30	31.09	Pass
44	5220	27.490	19.570	≤30	31.39	Pass
48	5240	27.650	19.650	≤30	31.42	Pass

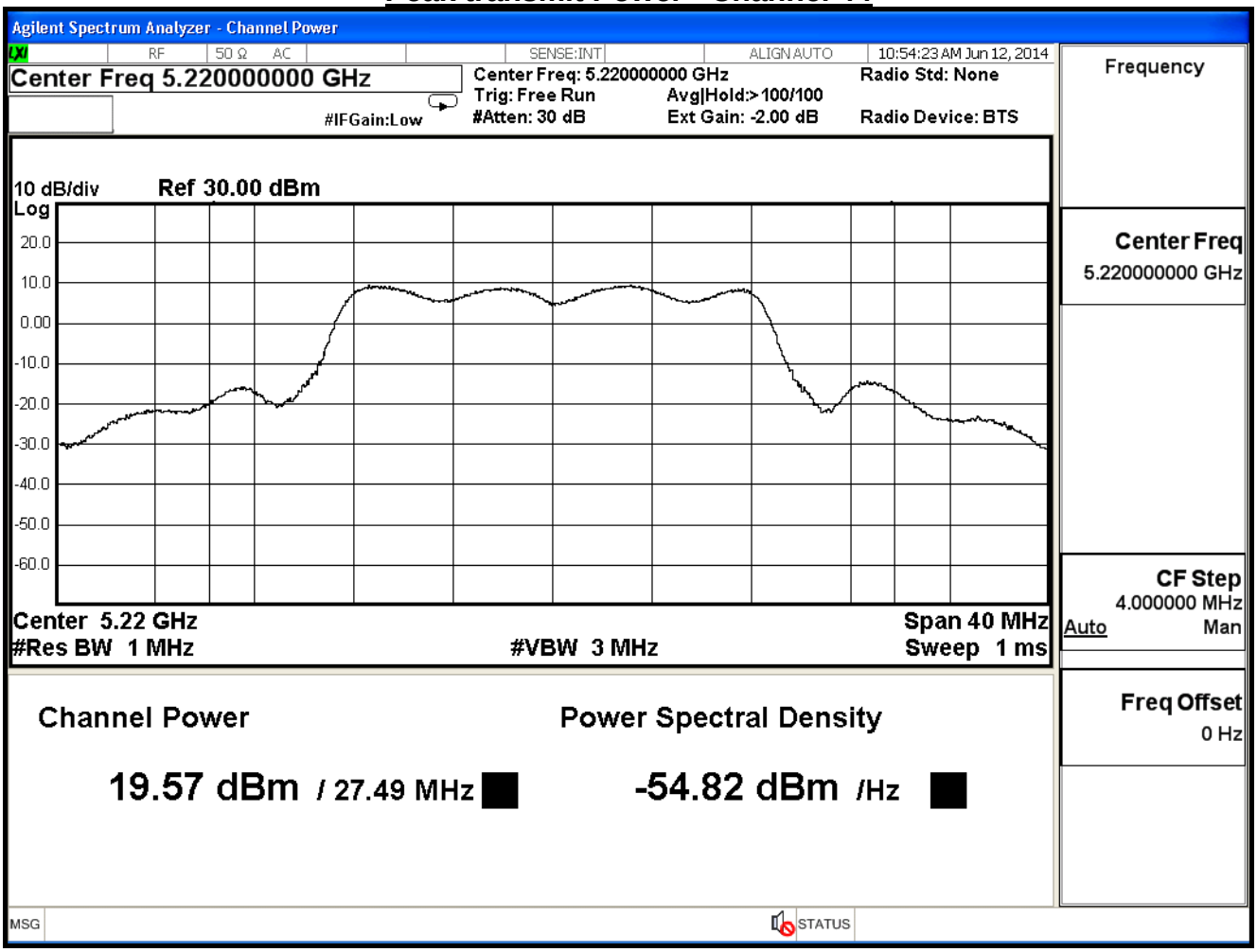
The worst emission of data rate is 6 Mbps.

Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
36	5180	15.930	--	--	--	--	--	--	30dBm or 4dBm+10logB
44	5220	19.570	19.37	19.17	19.07	18.97	18.85	18.61	
48	5240	19.650	--	--	--	--	--	--	

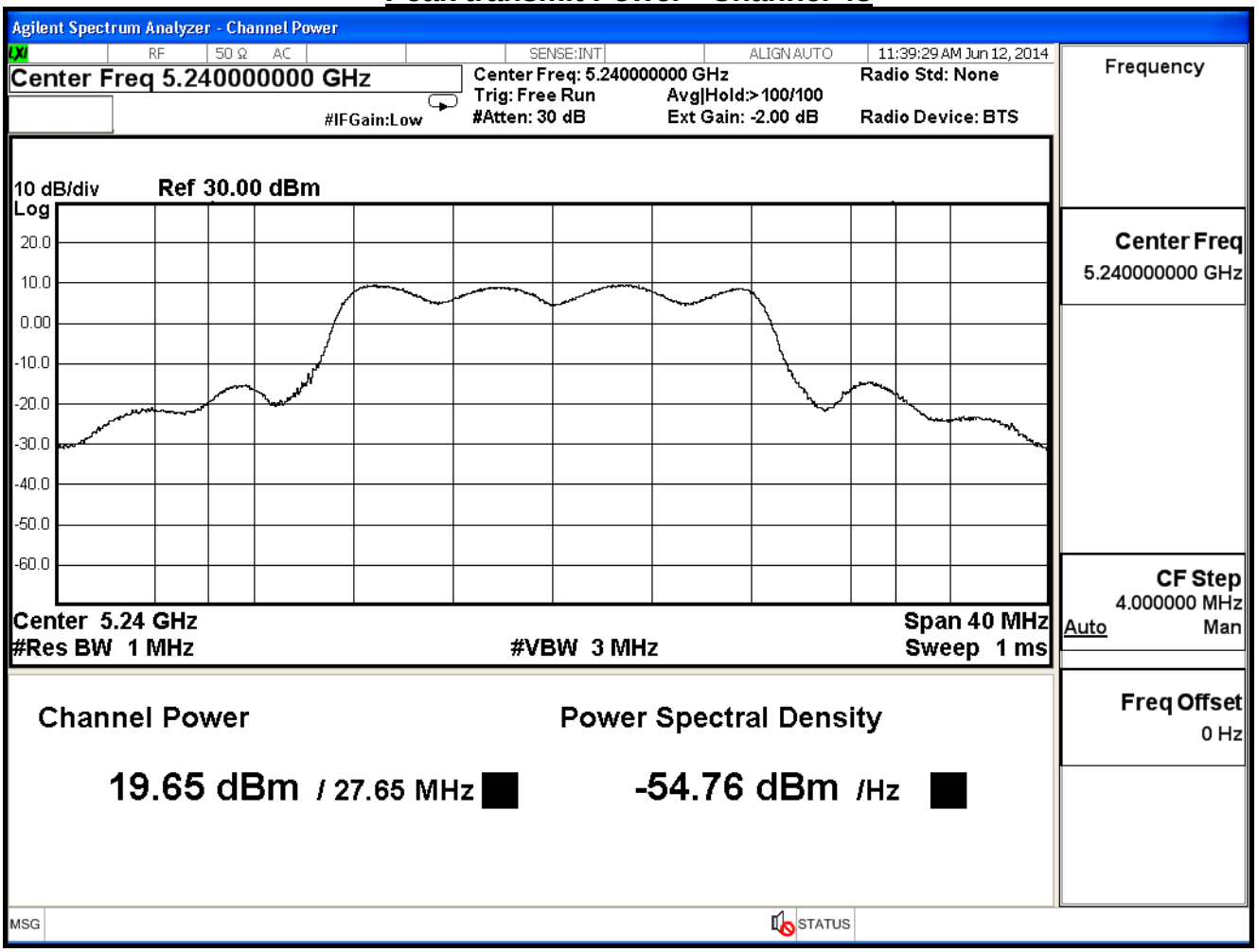
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

802.11a (ANT 0+1+2)					
Channel No.	Frequency (MHz)	Total Output Power		Required Limit (dBm)	Result
		(mW)	(dBm)		
36	5180	121.136	20.833	≤30	Pass
44	5220	313.962	24.969	≤30	Pass
48	5240	316.481	25.003	≤30	Pass

The worst emission of data rate is 6 Mbps.

Power Output (dBm)								
Channel No	Frequency (MHz)	Data Rate						Required Limit
		6	12	18	24	36	48	54	
36	5180	20.833	--	--	--	--	--	--	30dBm or 4dBm+10logB
44	5220	24.969	24.81	24.64	24.51	24.34	24.22	23.98	
48	5240	25.003	--	--	--	--	--	--	

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

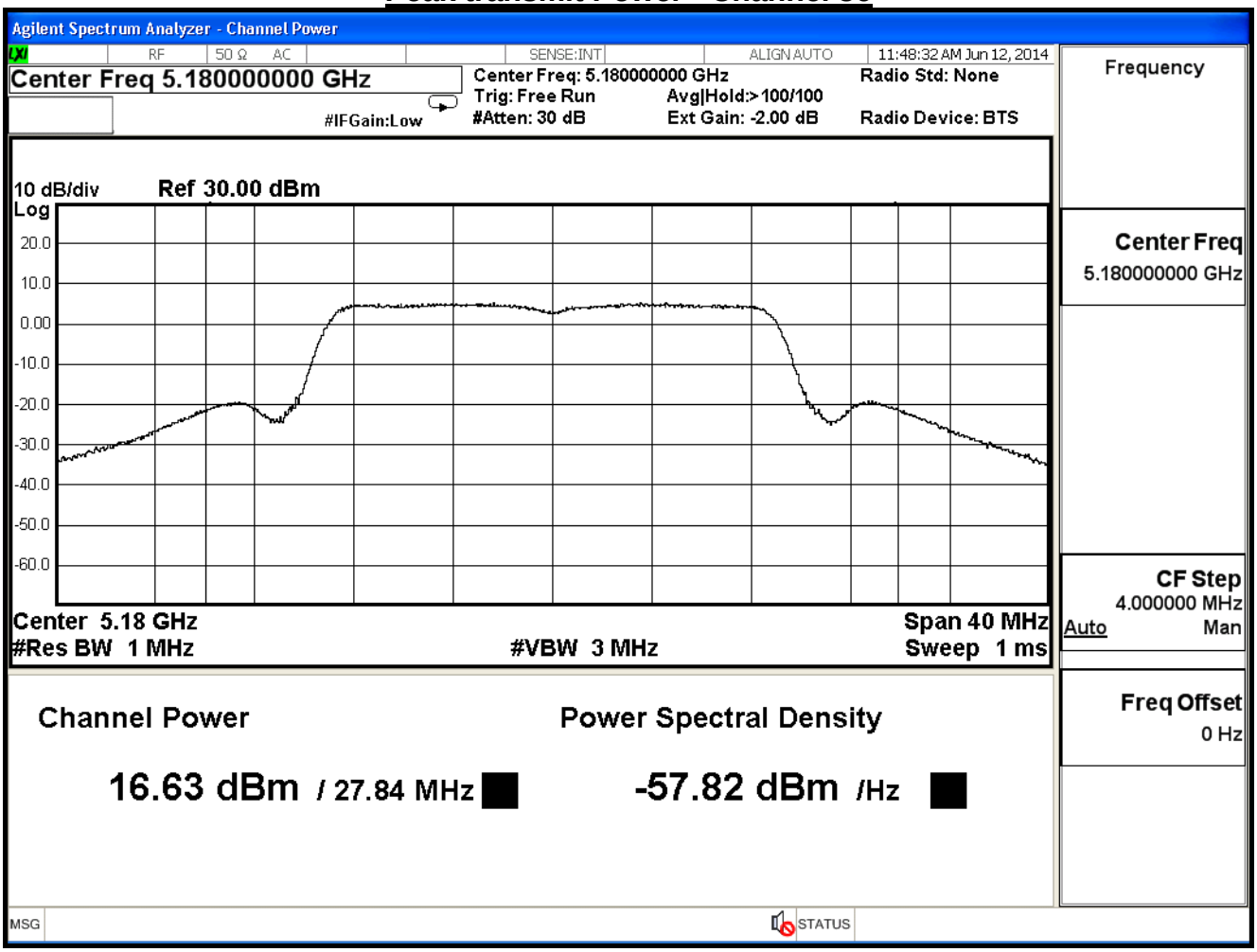
IEEE 802.11n(20MHz)(ANT 0)

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit		Result
				Fixed Limit (dBm)	4+10logB Limit (dBm)	
36	5180	27.840	16.630	≤30	31.45	Pass
44	5220	36.550	20.630	≤30	32.63	Pass
48	5240	38.460	20.540	≤30	32.85	Pass

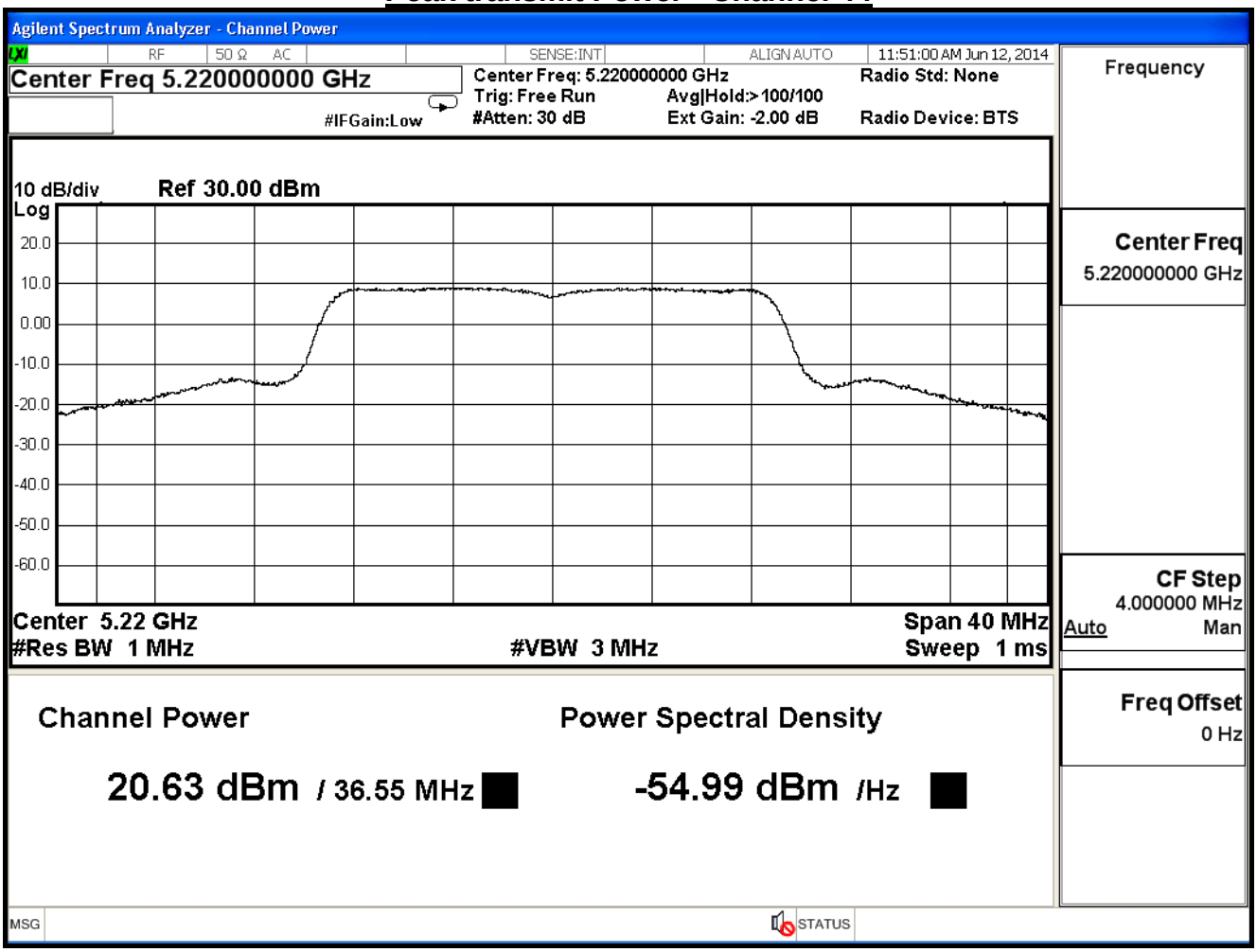
The worst emission of data rate is 6.5Mbps.

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	16.63	--	--	--	--	--	--	--	30dBm or 4dBm+10logB
44	5220	20.63	20.43	20.23	20.03	19.93	19.81	19.69	19.57	
48	5240	20.54	--	--	--	--	--	--	--	

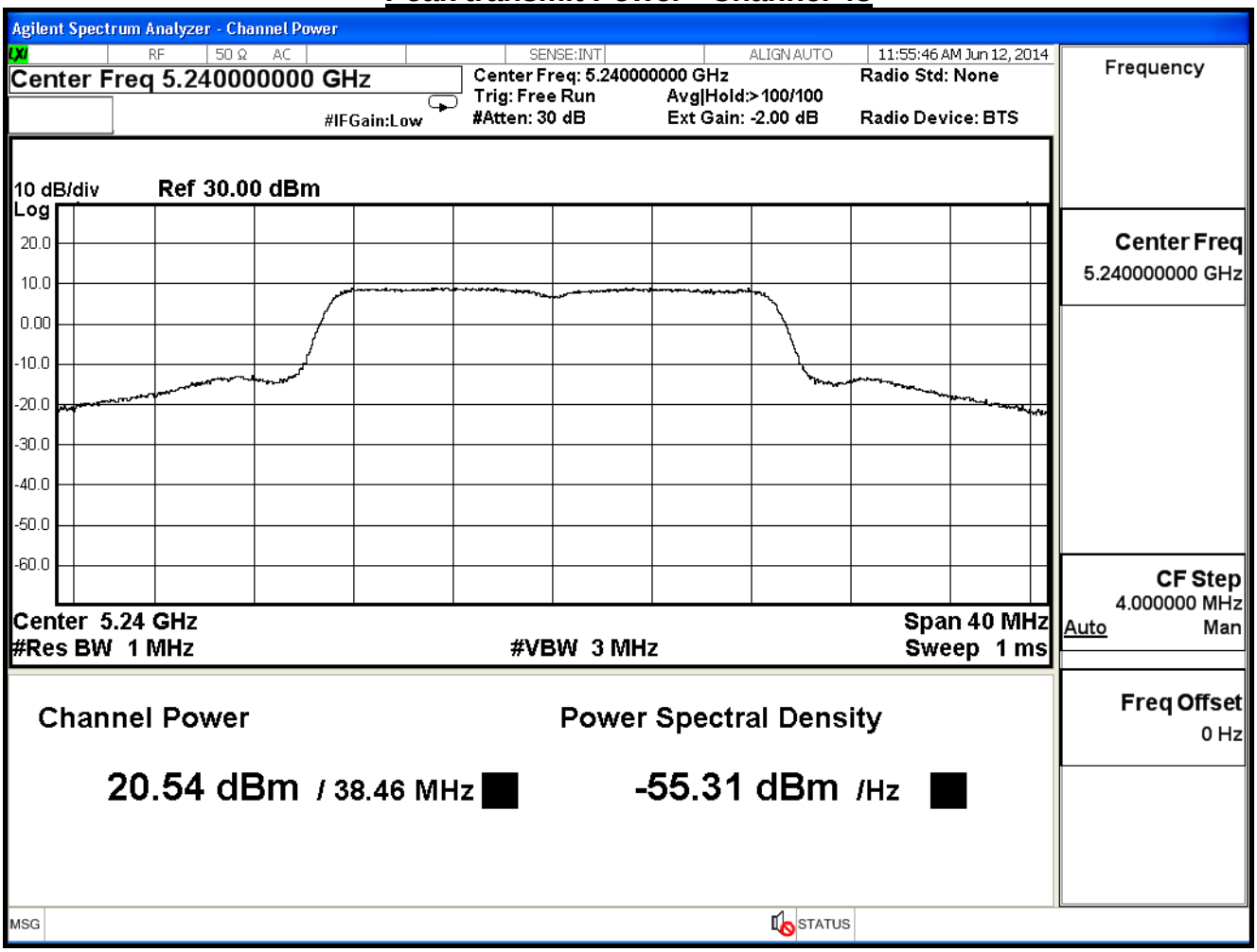
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

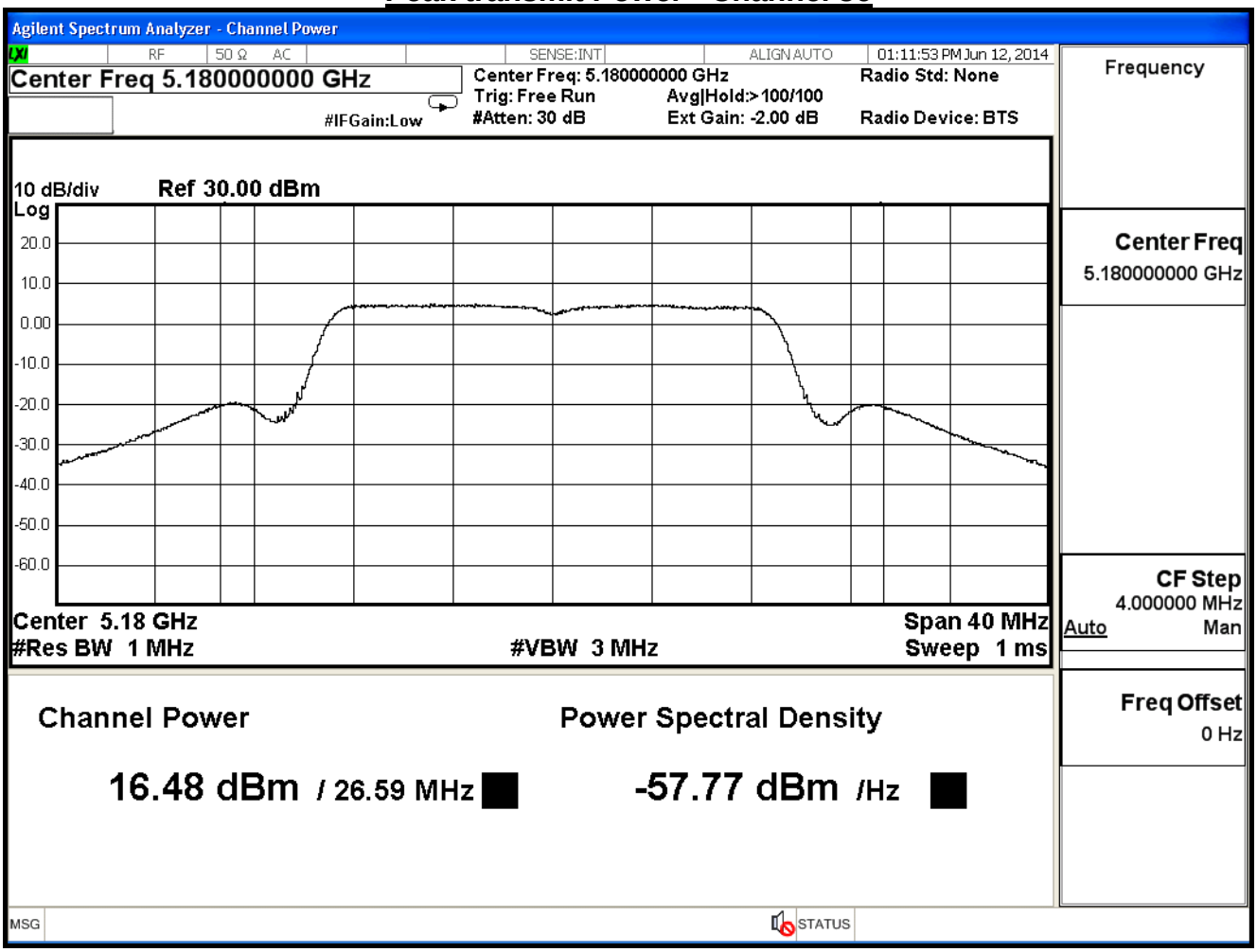
IEEE 802.11n(20MHz)(ANT 1)

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit		Result
				Fixed Limit (dBm)	4+10logB Limit (dBm)	
36	5180	26.590	16.480	≤30	31.25	Pass
44	5220	31.990	20.330	≤30	32.05	Pass
48	5240	31.610	20.330	≤30	32.00	Pass

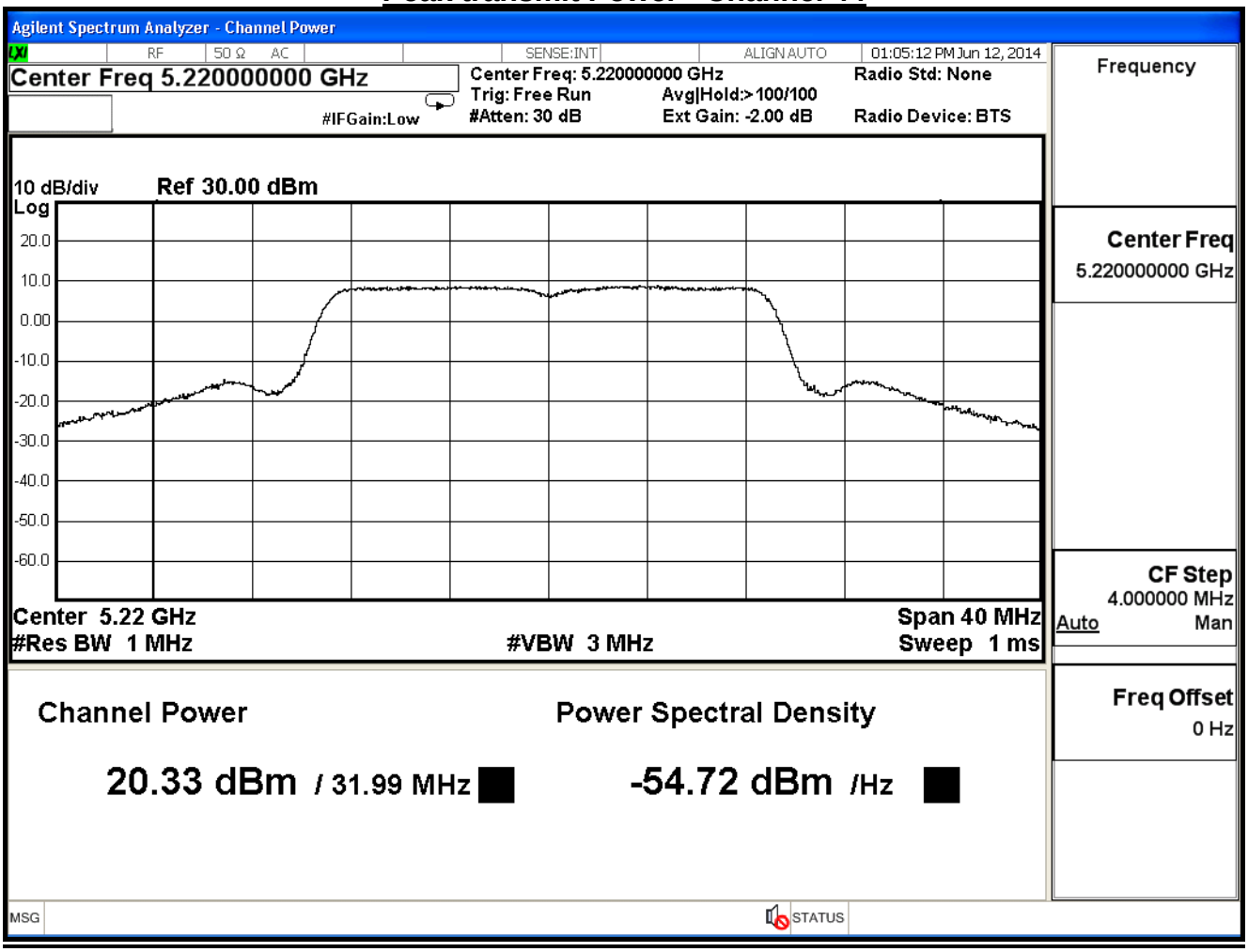
The worst emission of data rate is 6.5Mbps.

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	16.48	--	--	--	--	--	--	--	30dBm or 4dBm+10logB
44	5220	20.33	20.23	20.03	19.83	19.73	19.49	19.37	19.25	
48	5240	20.33	--	--	--	--	--	--	--	

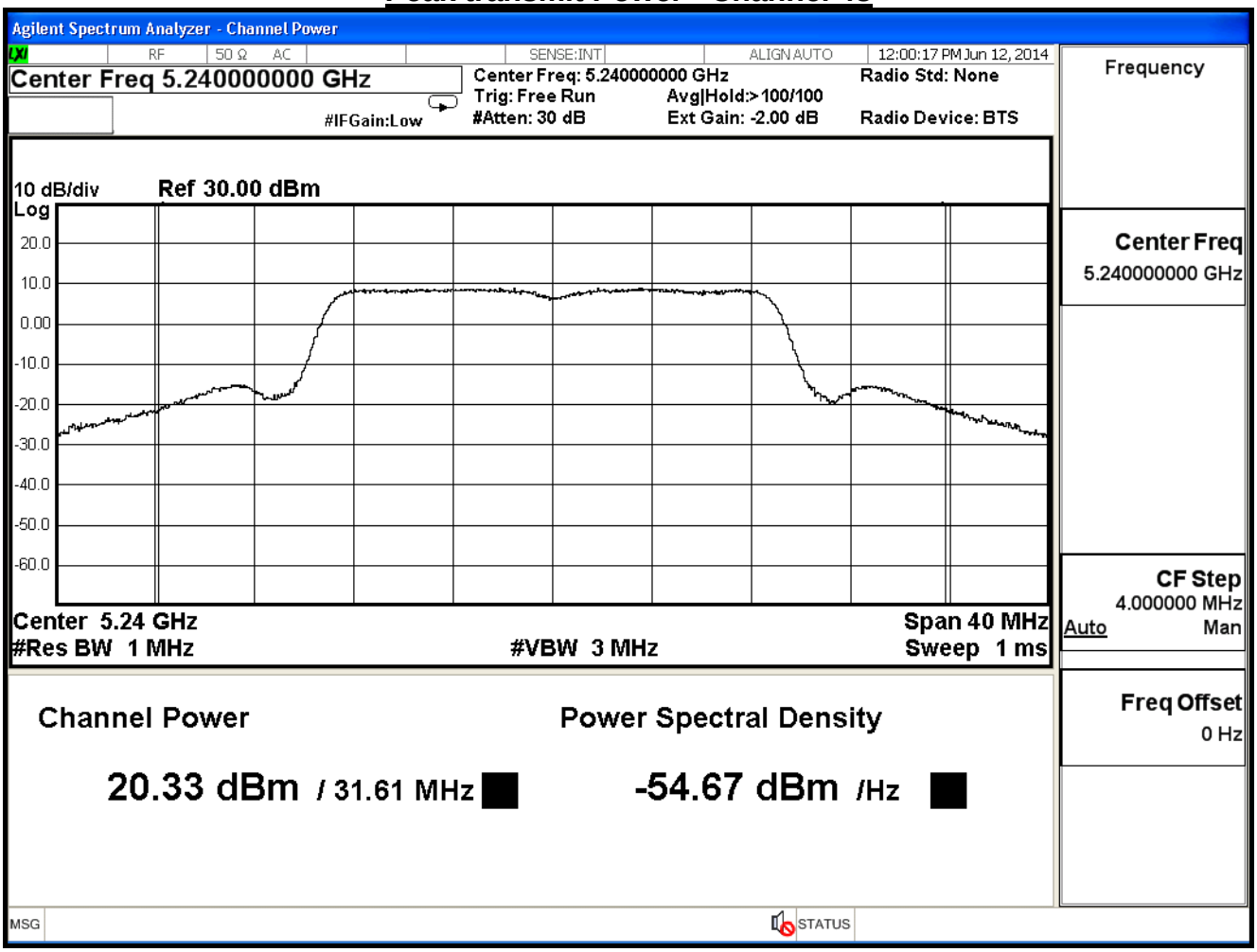
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



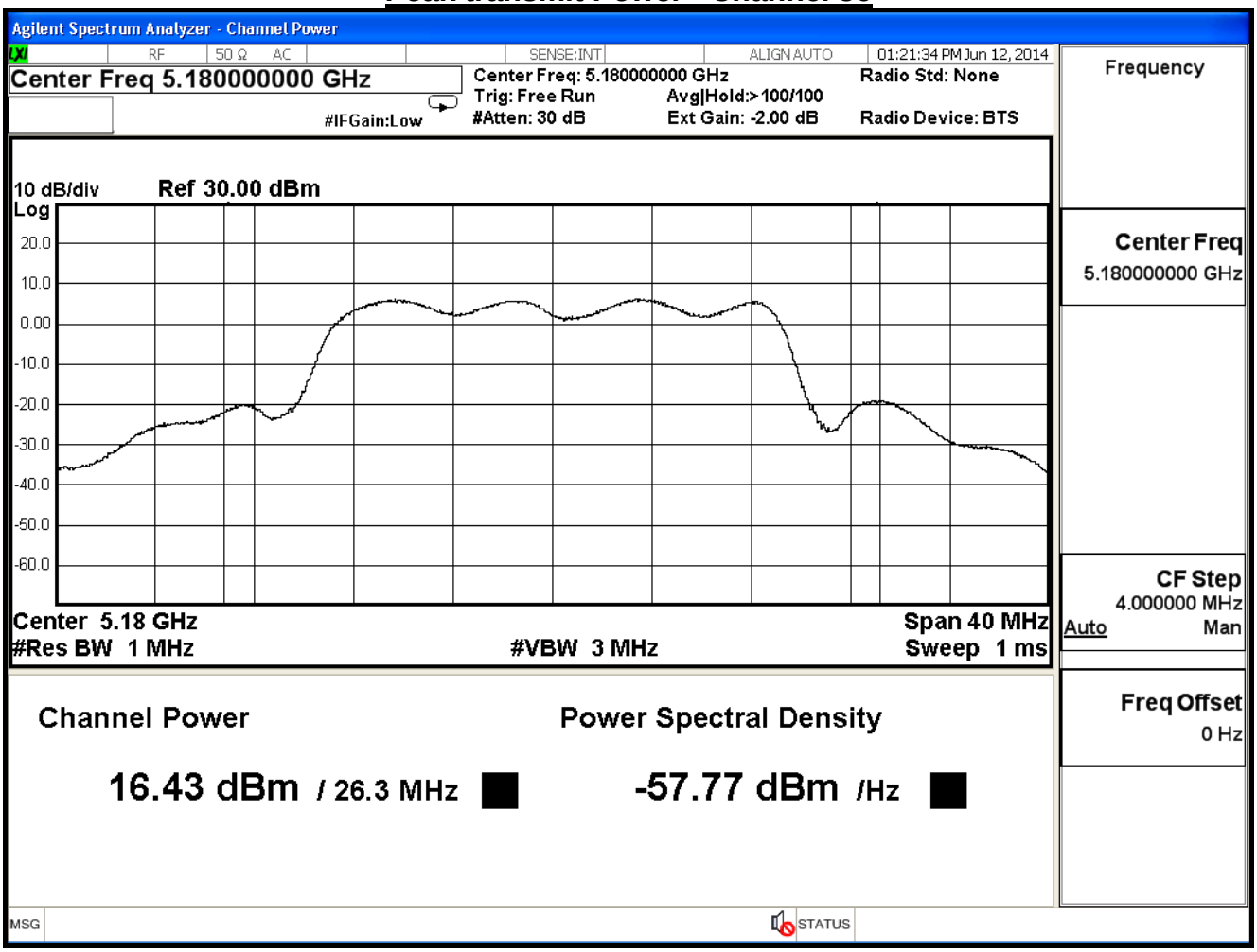
Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

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	26.300	16.430	≤30	31.20	Pass
44	5220	27.190	20.070	≤30	31.34	Pass
48	5240	27.890	20.190	≤30	31.45	Pass

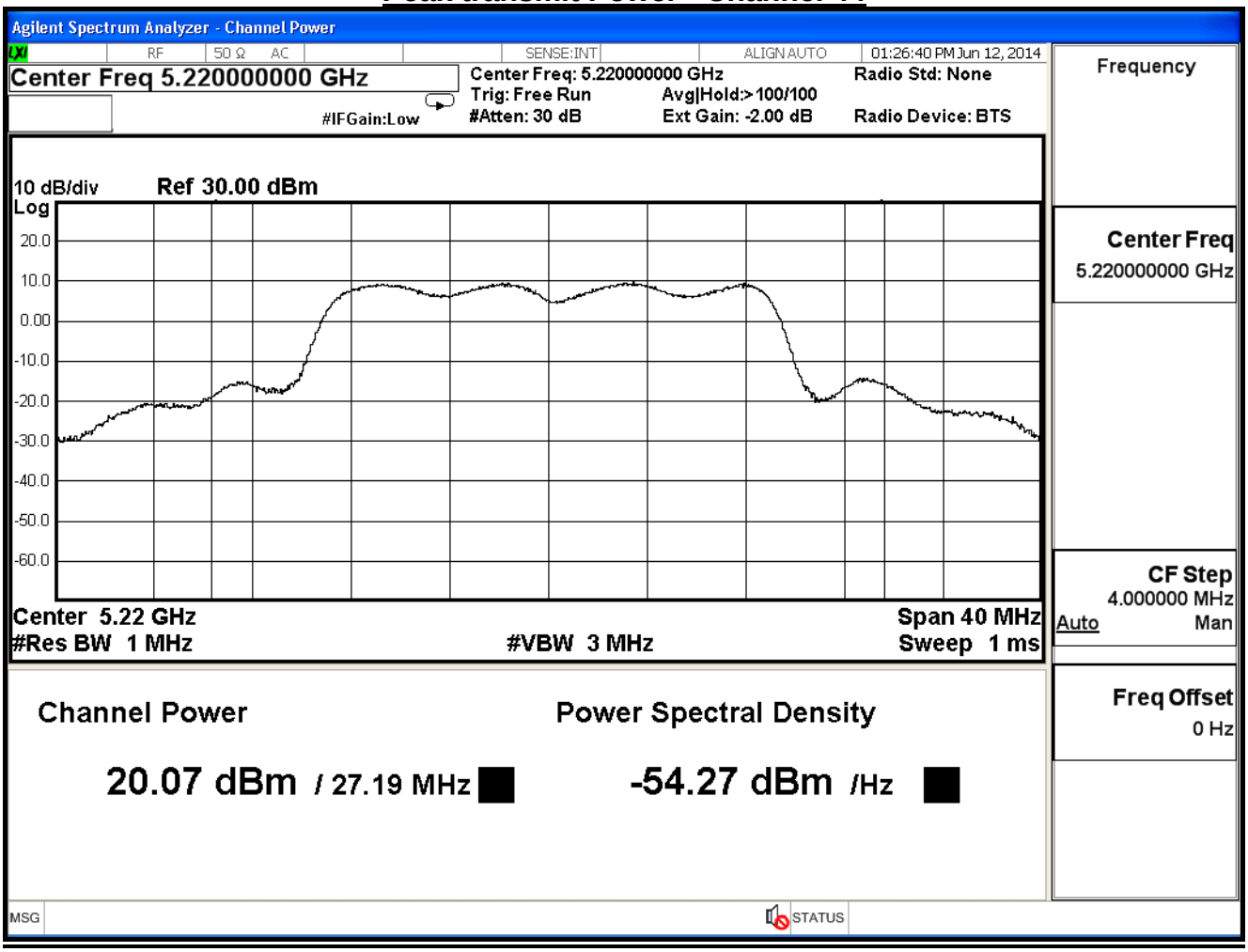
The worst emission of data rate is 6.5Mbps.

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	16.43	--	--	--	--	--	--	--	30dBm or 4dBm+10logB
44	5220	20.07	19.97	19.87	19.77	19.67	19.55	19.43	19.19	
48	5240	20.19	--	--	--	--	--	--	--	

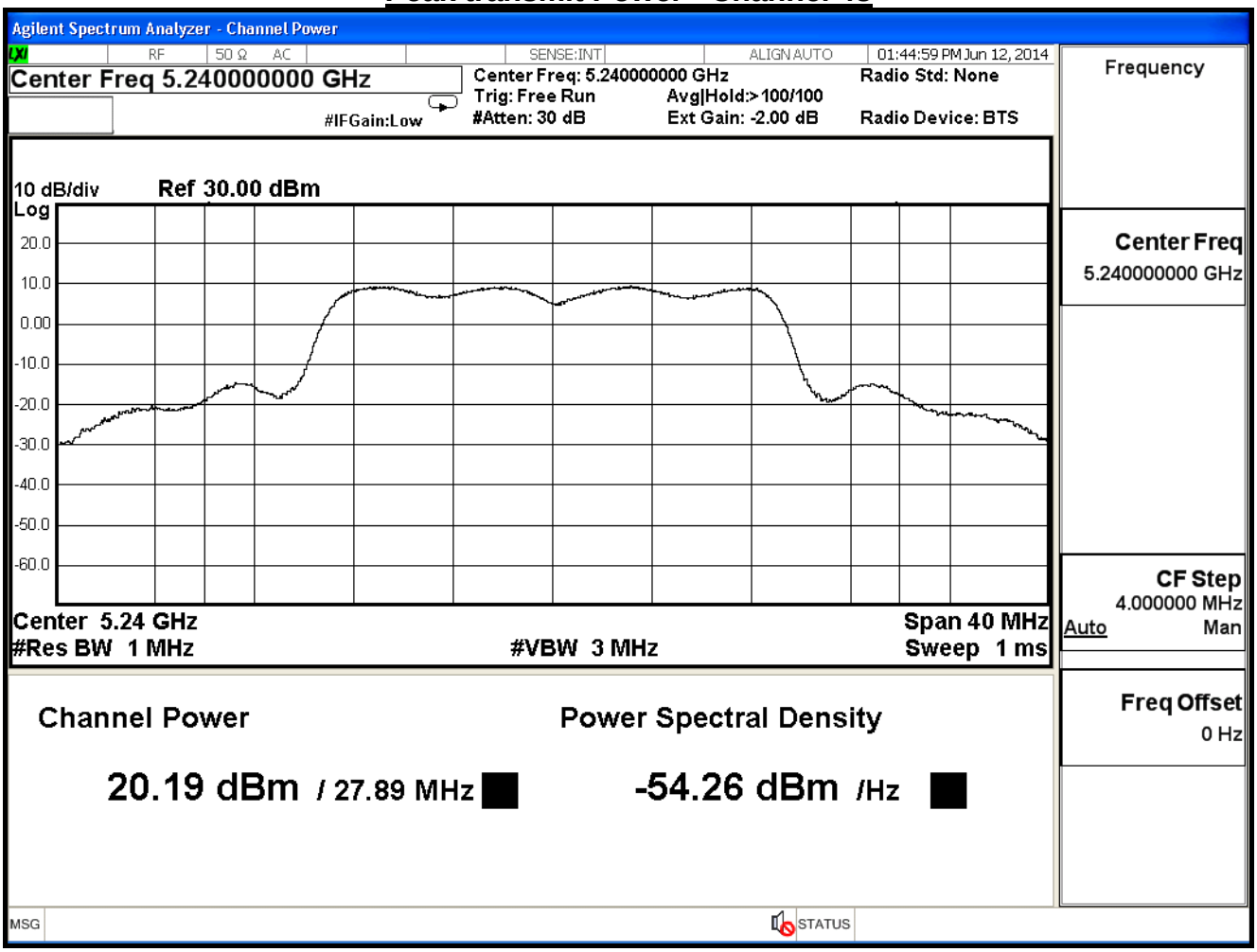
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

IEEE 802.11n(20MHz)(ANT 0+1+2)					
Channel No.	Frequency (MHz)	Total Output Power		Required Limit (dBm)	Result
		(mW)	(dBm)		
36	5180	134.431	21.285	≤30	Pass
44	5220	325.131	25.121	≤30	Pass
48	5240	325.607	25.127	≤30	Pass

The worst emission of data rate is 6.5Mbps.

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	21.29	--	--	--	--	--	--	--	30dBm or 4dBm+10logB
44	5220	25.12	24.99	24.82	24.65	24.55	24.39	24.27	24.11	
48	5240	25.13	--	--	--	--	--	--	--	

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

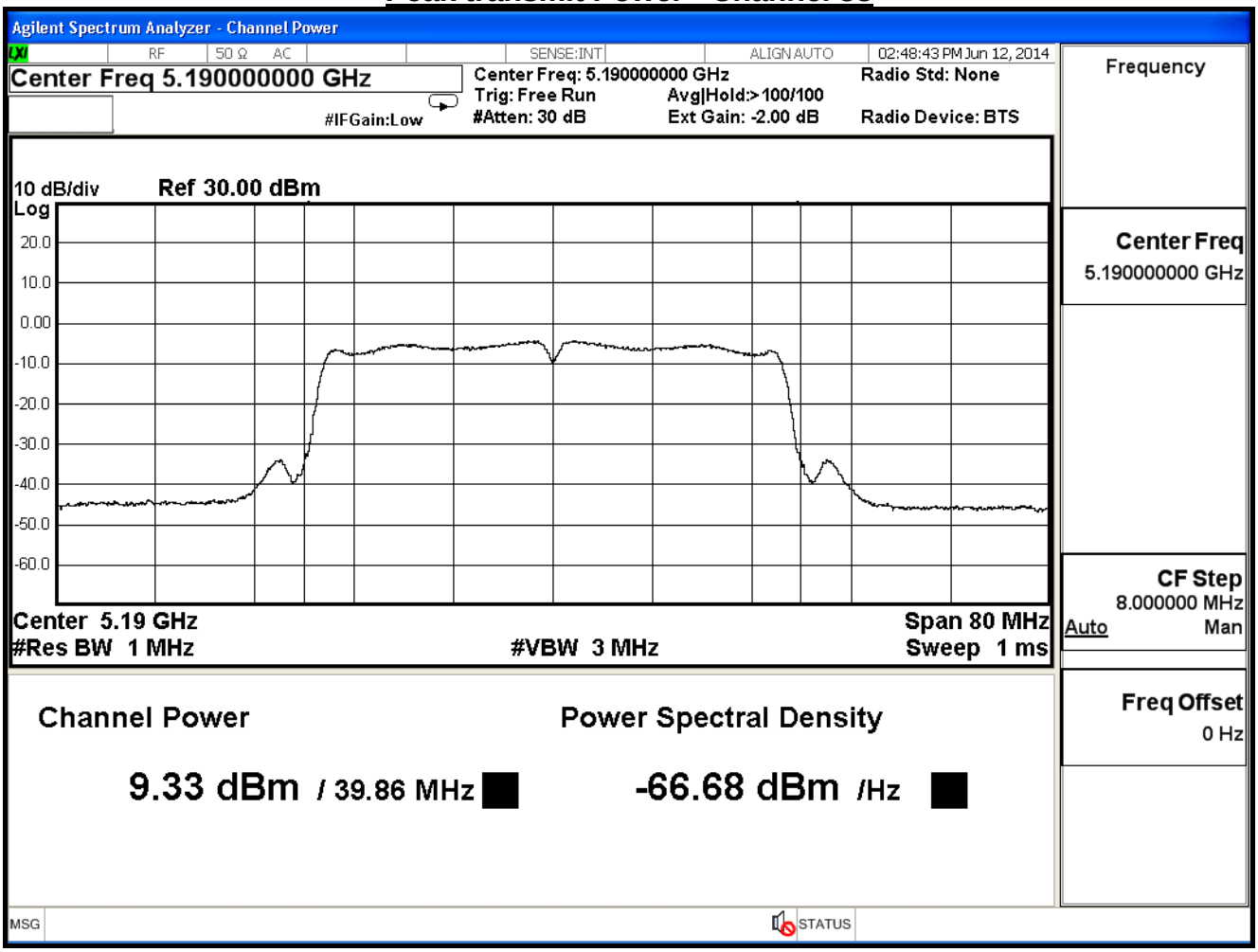
IEEE 802.11n(40MHz)(ANT 0)

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Required Limit		Result
				Fixed Limit (dBm)	4+10logB Limit (dBm)	
38	5190	39.860	9.330	≤30	33.01	Pass
46	5230	62.770	19.620	≤30	34.98	Pass

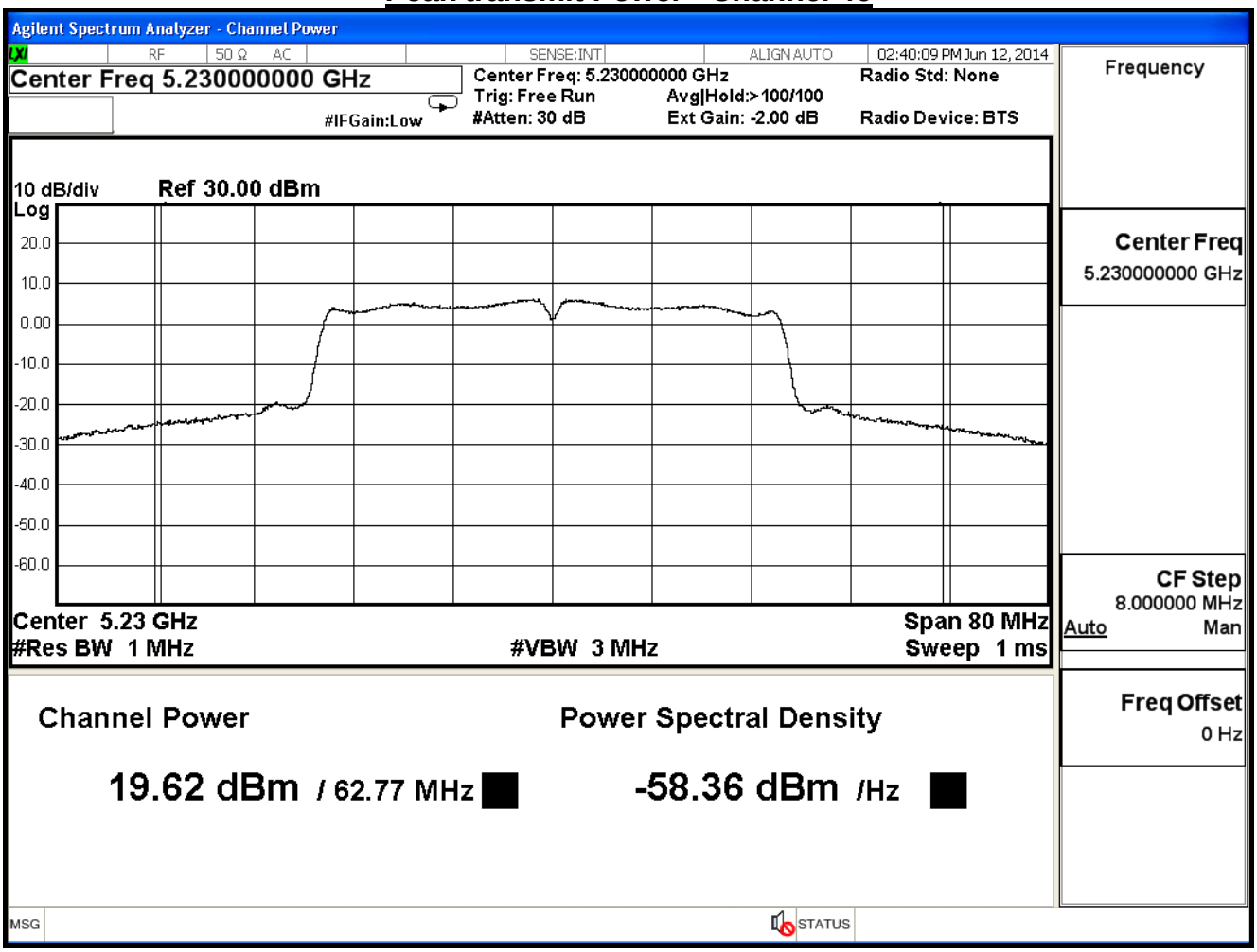
The worst emission of data rate is 13.5 Mbps

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	9.33	--	--	--	--	--	--	--	30dBm or 4dBm+10logB
46	5230	19.62	19.42	19.22	19.12	19.02	18.90	18.78	18.66	

Peak transmit Power - Channel 38



Peak transmit Power - Channel 46



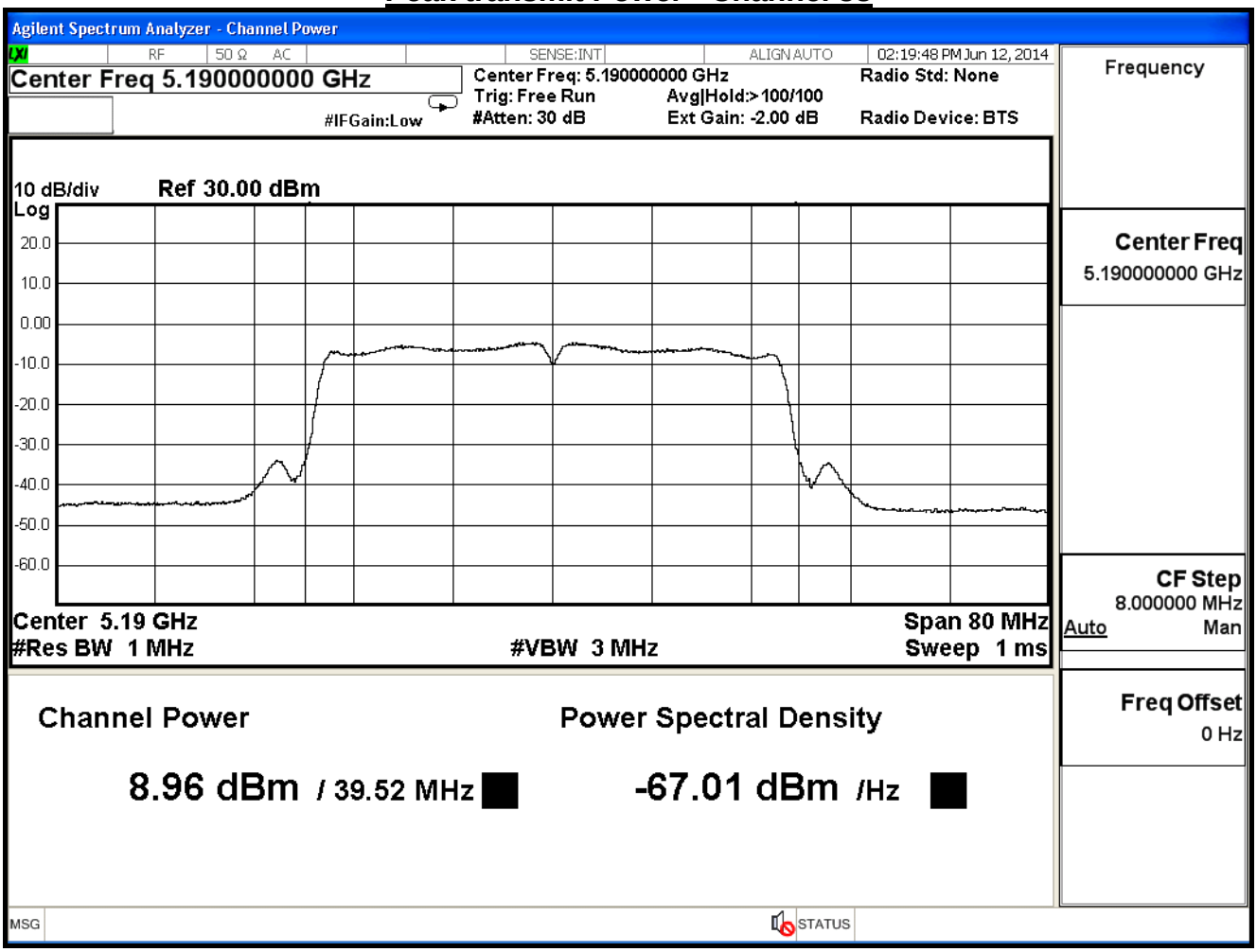
Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

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	39.520	8.960	≤30	32.97	Pass
46	5230	44.910	19.320	≤30	33.52	Pass

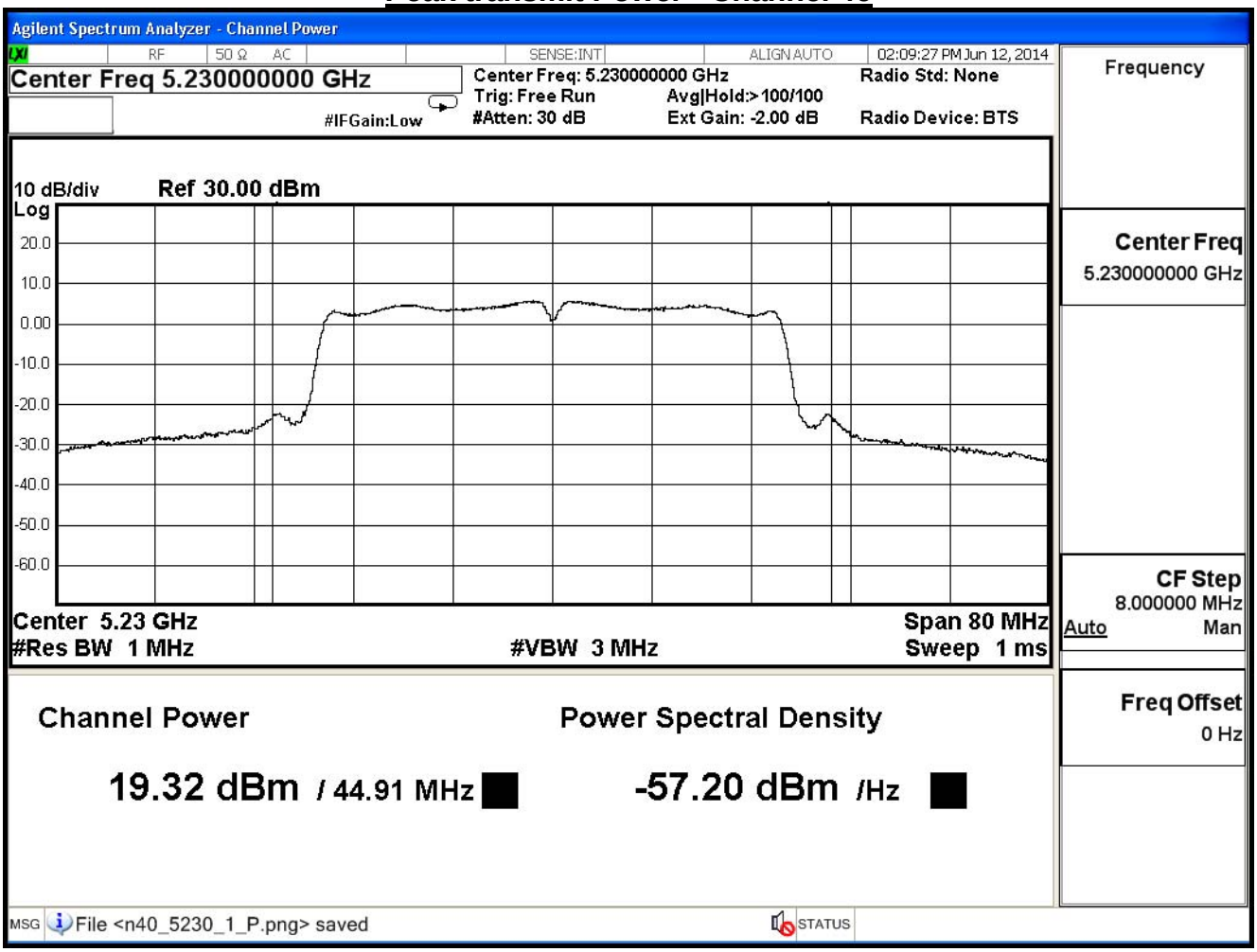
The worst emission of data rate is 13.5 Mbps

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	8.96	--	--	--	--	--	--	--	30dBm or 4dBm+10logB
46	5230	19.32	19.12	18.92	18.72	18.52	18.40	18.28	18.16	

Peak transmit Power - Channel 38



Peak transmit Power - Channel 46



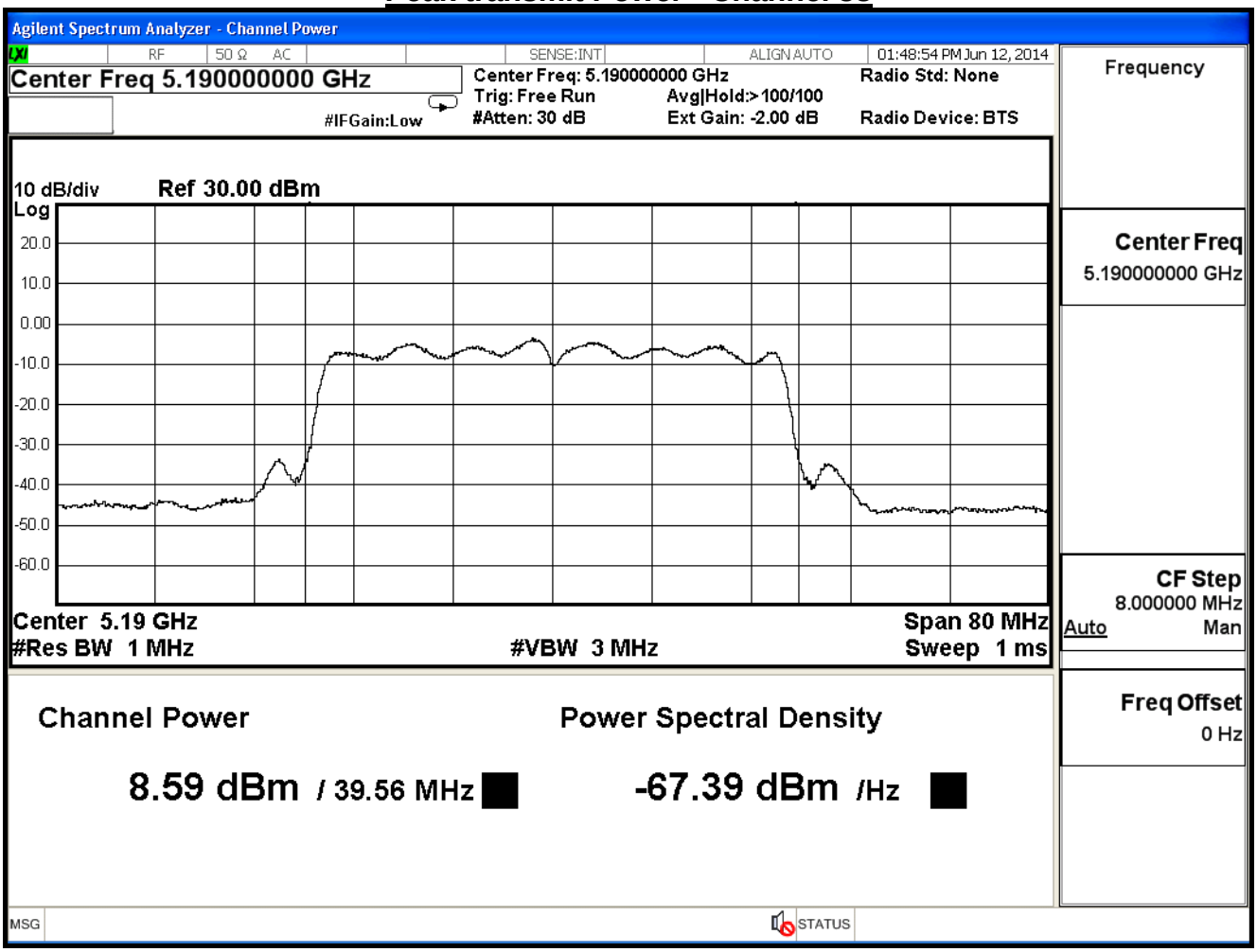
Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

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	39.560	8.590	≤30	32.97	Pass
46	5230	42.380	19.040	≤30	33.27	Pass

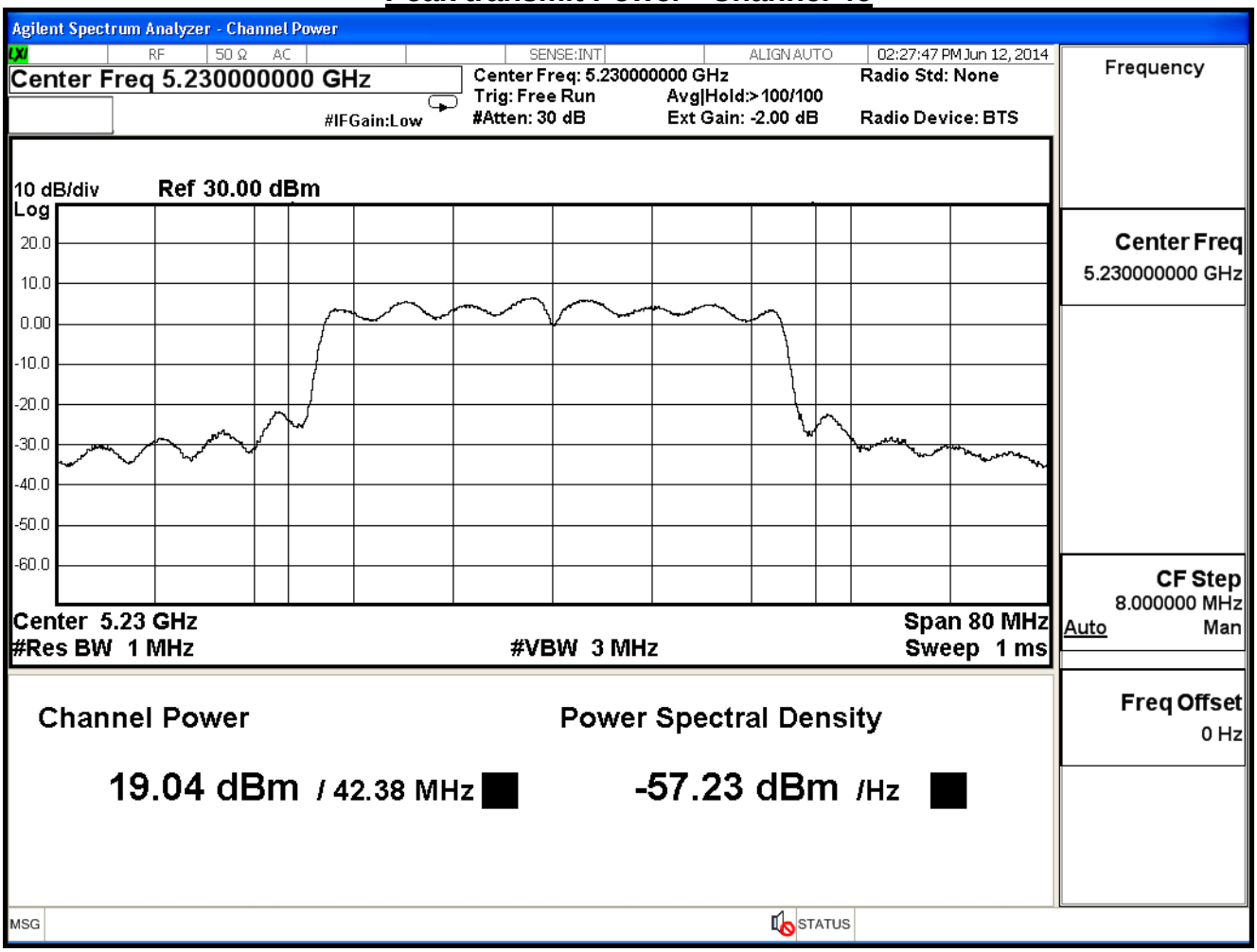
The worst emission of data rate is 13.5 Mbps

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	8.59	--	--	--	--	--	--	--	30dBm or 17dBm+10logB
46	5230	19.04	18.94	18.84	18.74	18.64	18.40	18.28	18.04	

Peak transmit Power - Channel 38



Peak transmit Power - Channel 46



Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

IEEE 802.11n(40MHz) (ANT 0+1+2)					
Channel No.	Frequency (MHz)	Total Output Power		Required Limit (dBm)	Result
		(mW)	(dBm)		
38	5190	23.670	13.742	≤30	Pass
46	5230	257.276	24.104	≤30	Pass

The worst emission of data rate is 13.5 Mbps

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	13.74	--	--	--	--	--	--	--	30dBm or 4dBm+10logB
46	5230	24.10	23.94	23.77	23.64	23.50	23.34	23.22	23.07	

5. Peak Power Spectrum Density

5.1. Test Equipment

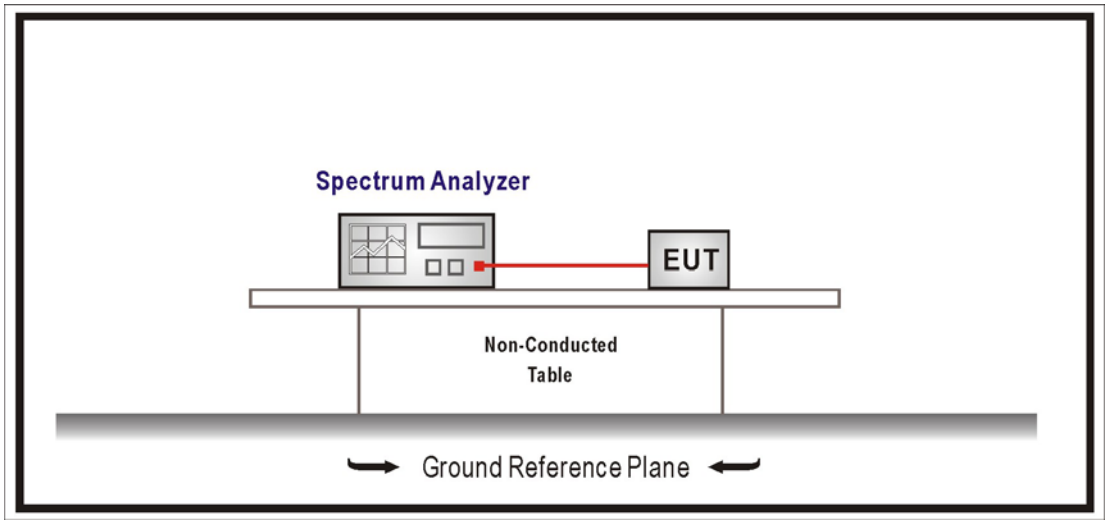
The following test equipments are used during the radiated emission tests:

Peak Power Spectrum Density / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2014/08/05

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 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.
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 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

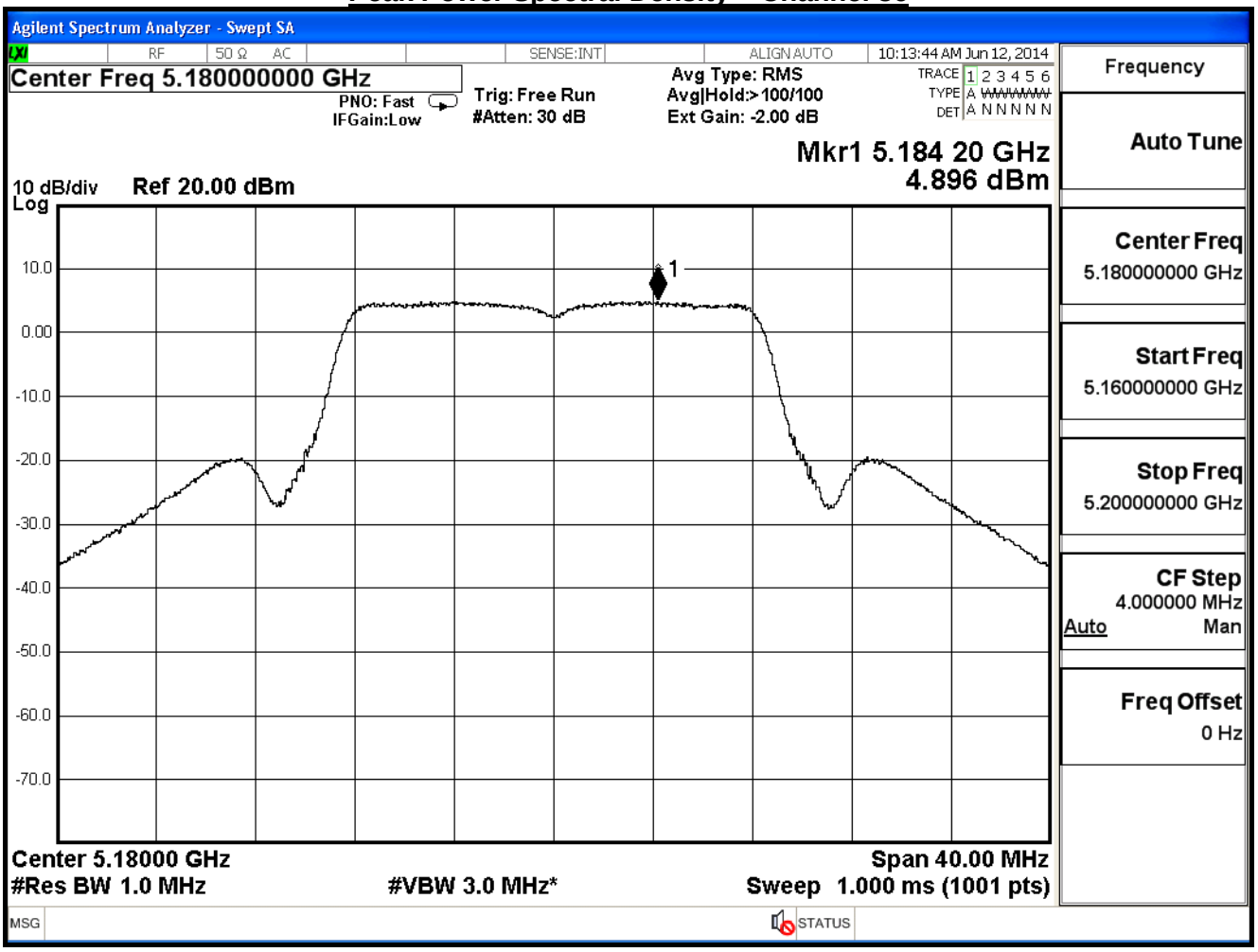
Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

IEEE 802.11a (ANT 0)

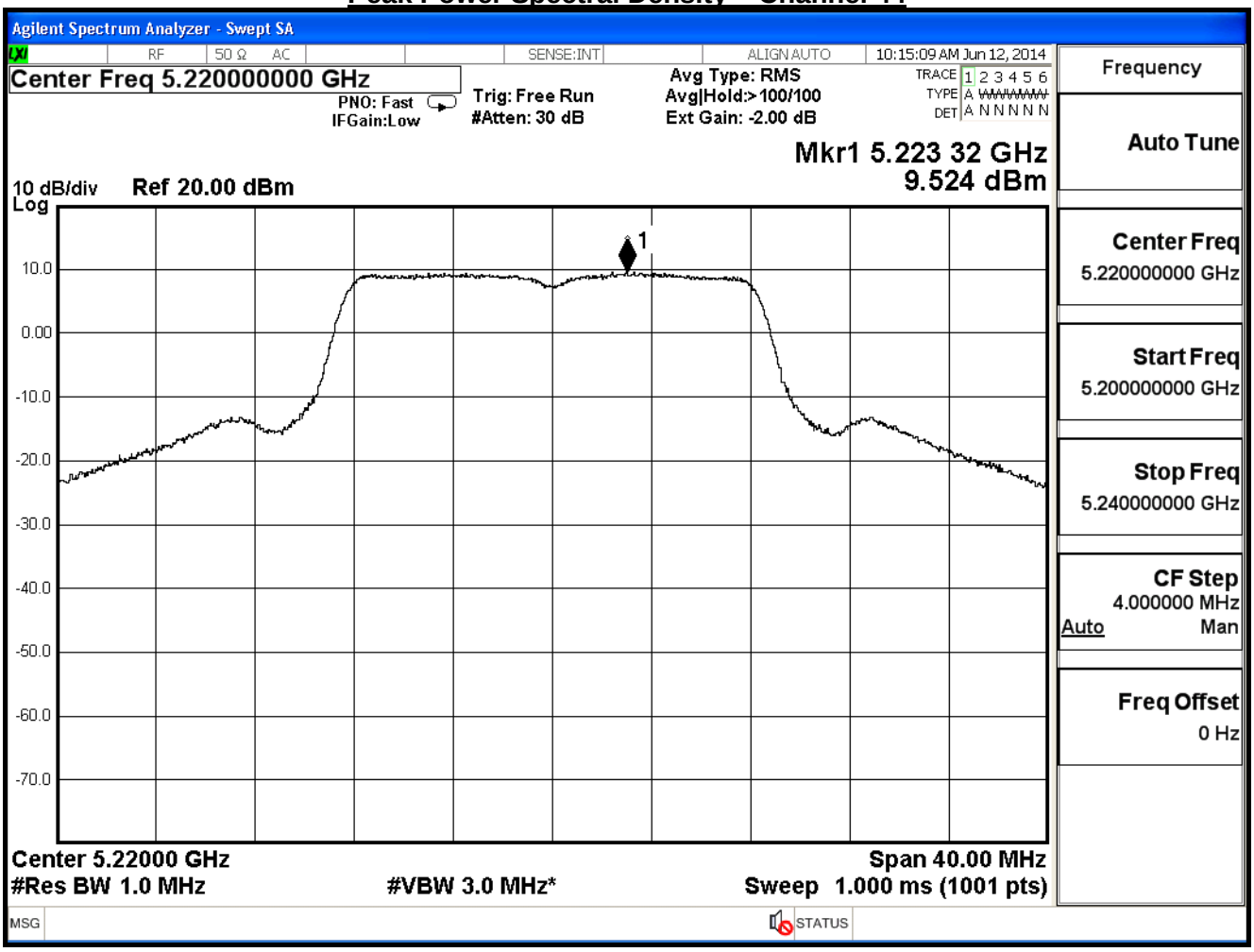
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
36	5180	4.896	≦16.23	Pass
44	5220	9.524	≦16.23	Pass
48	5240	9.595	≦16.23	Pass

Note :
Directional Antenna : 10log(Ant N)+Max Gain = 6.77dBi
Power Density Limit :17dBm-(6.77dBi-6dB)=16.23dBm

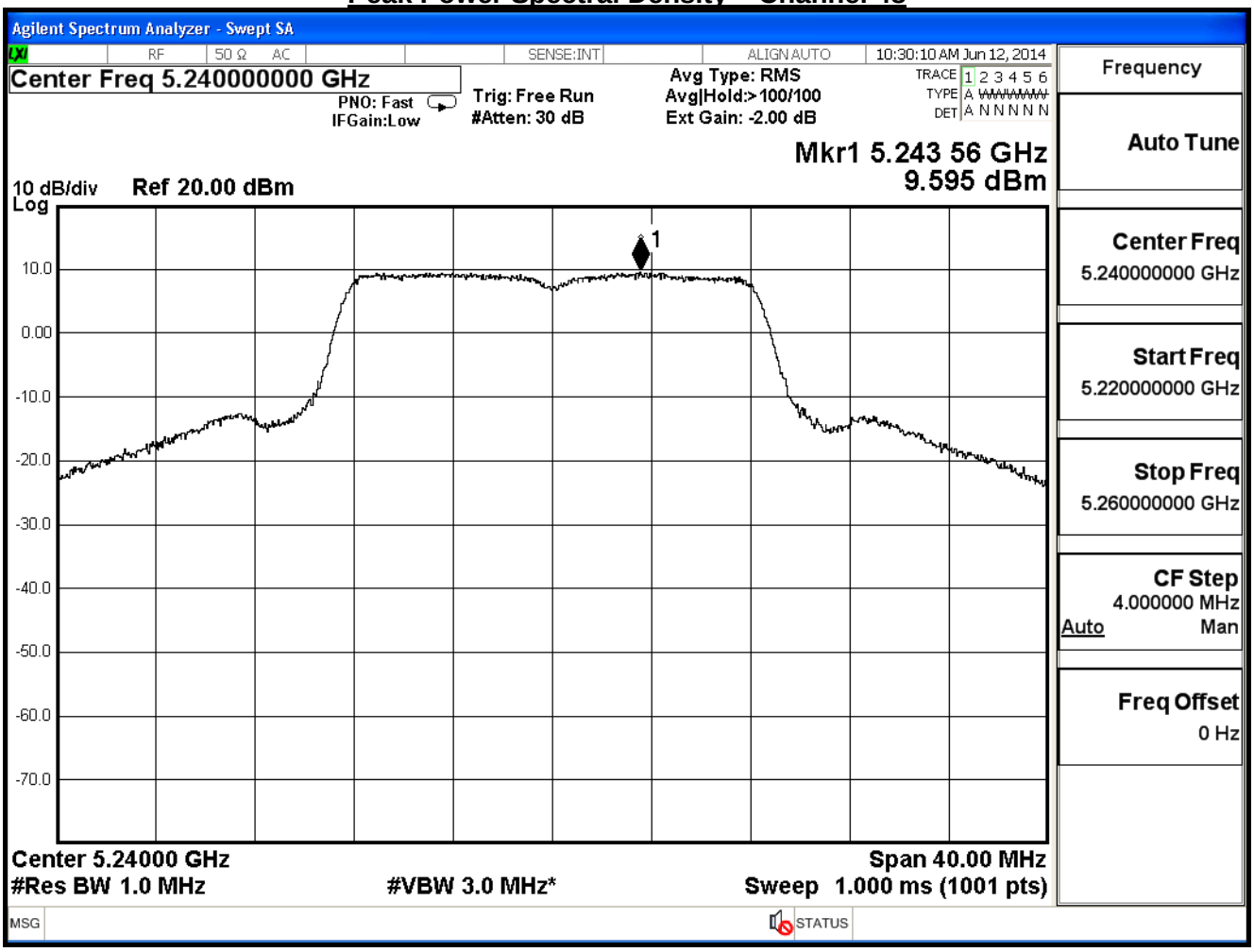
Peak Power Spectral Density – Channel 36



Peak Power Spectral Density – Channel 44



Peak Power Spectral Density – Channel 48

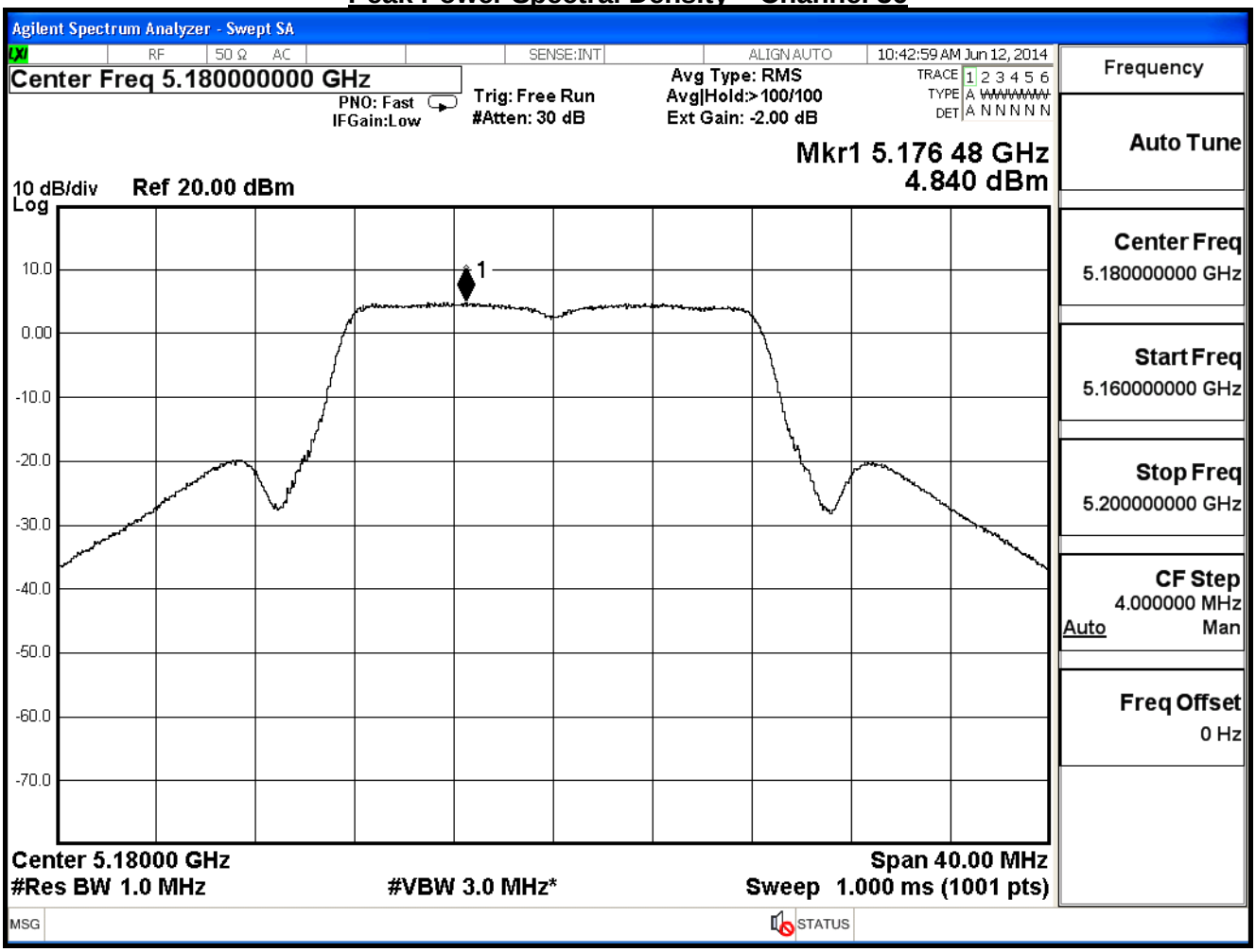


Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

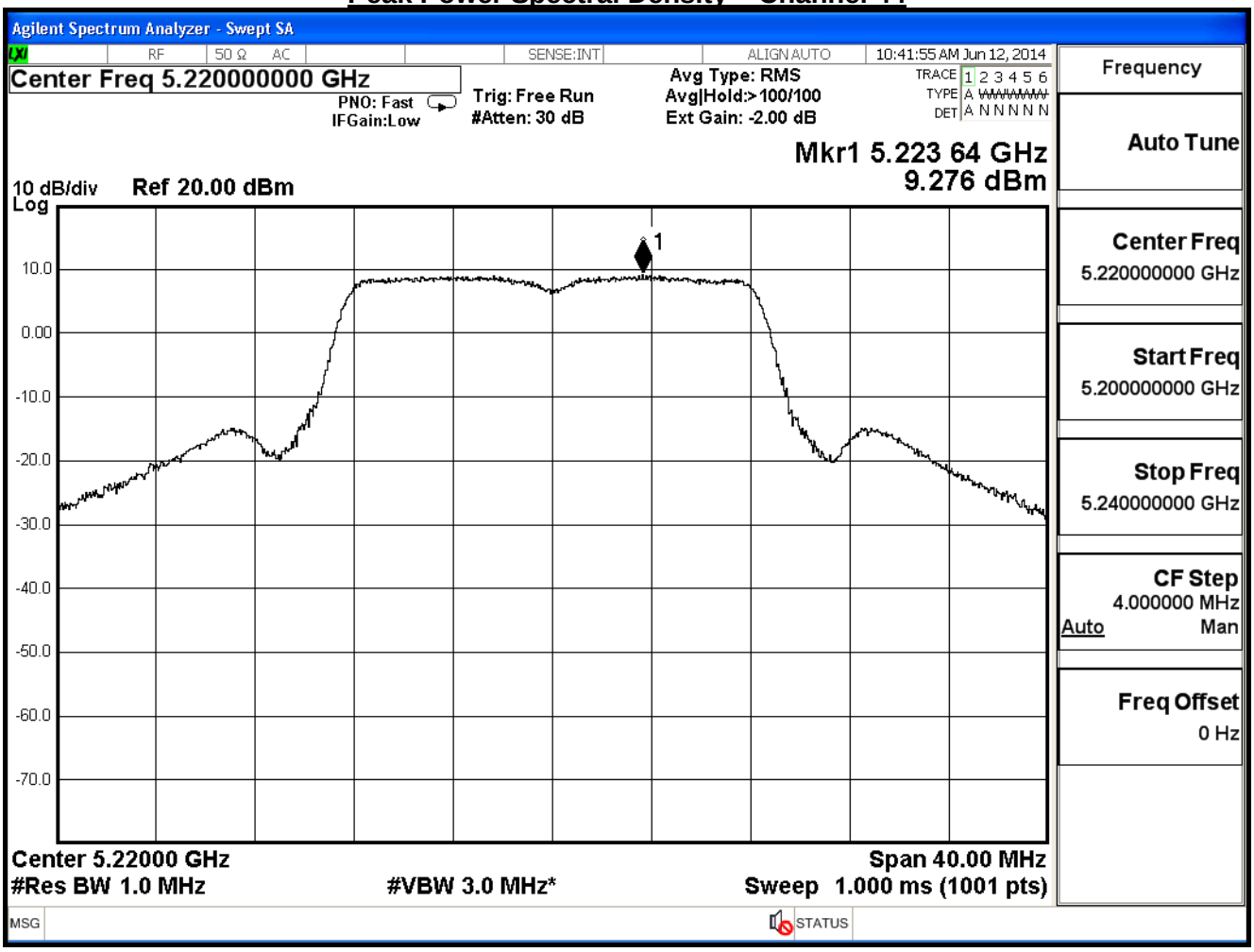
IEEE 802.11a (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
36	5180	4.840	≦16.23	Pass
44	5220	9.276	≦16.23	Pass
48	5240	9.377	≦16.23	Pass

Note :
Directional Antenna : 10log(Ant N)+Max Gain = 6.77dBi
Power Density Limit :17dBm-(6.77dBi-6dB)=16.23dBm

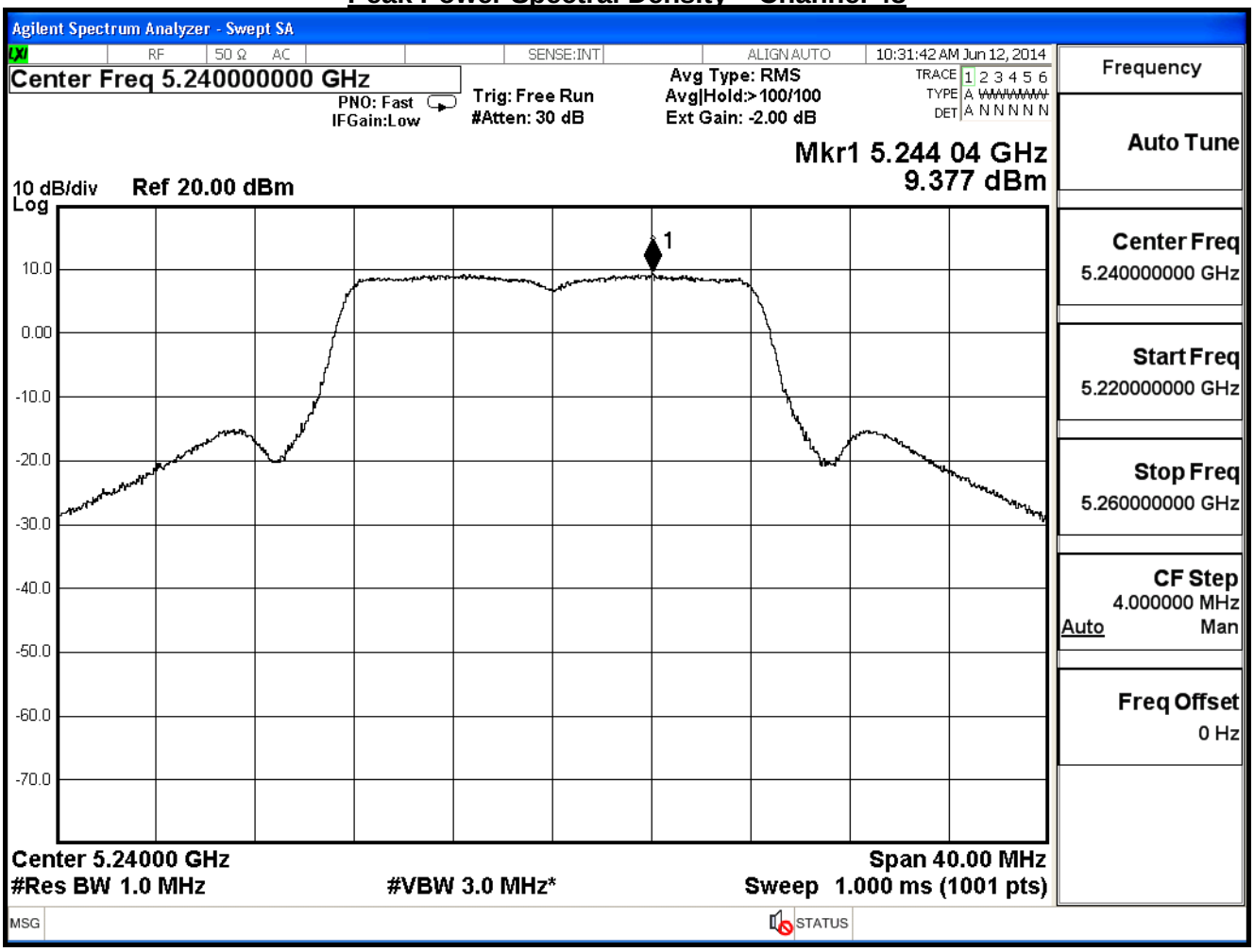
Peak Power Spectral Density – Channel 36



Peak Power Spectral Density – Channel 44



Peak Power Spectral Density – Channel 48

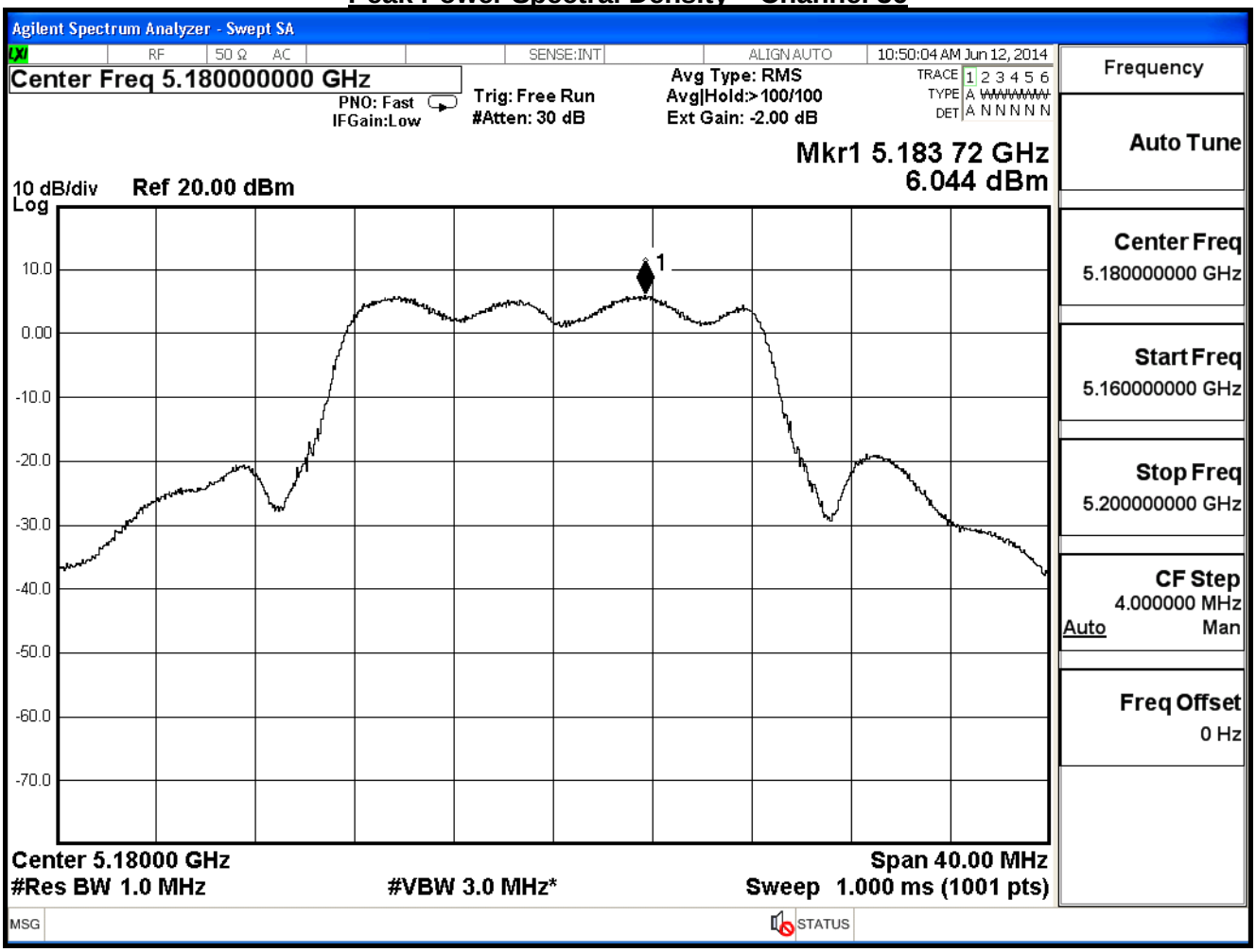


Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

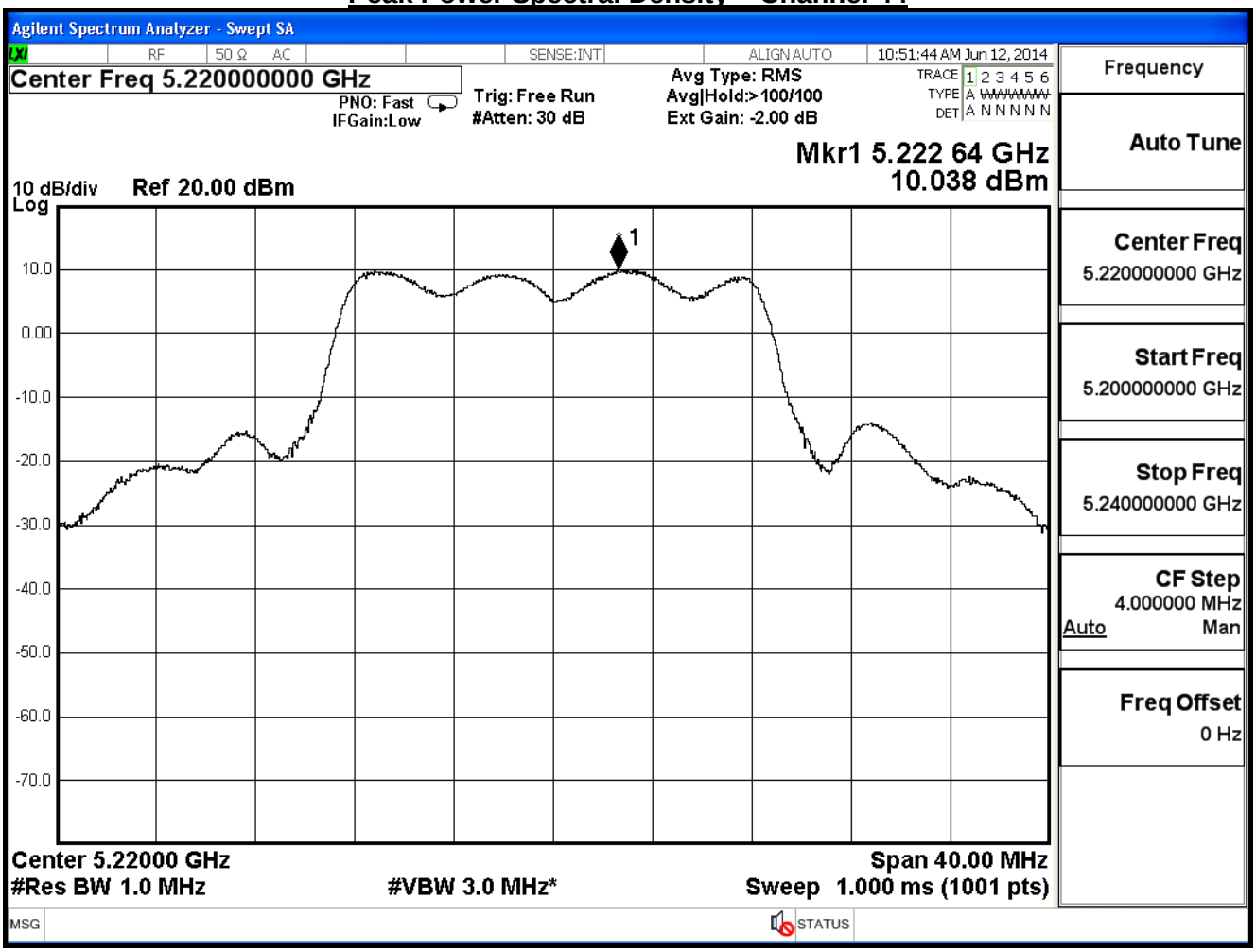
IEEE 802.11a (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
36	5180	6.044	≦16.23	Pass
44	5220	10.038	≦16.23	Pass
48	5240	9.521	≦16.23	Pass

Note :
Directional Antenna : 10log(Ant N)+Max Gain = 6.77dBi
Power Density Limit :17dBm-(6.77dBi-6dB)=16.23dBm

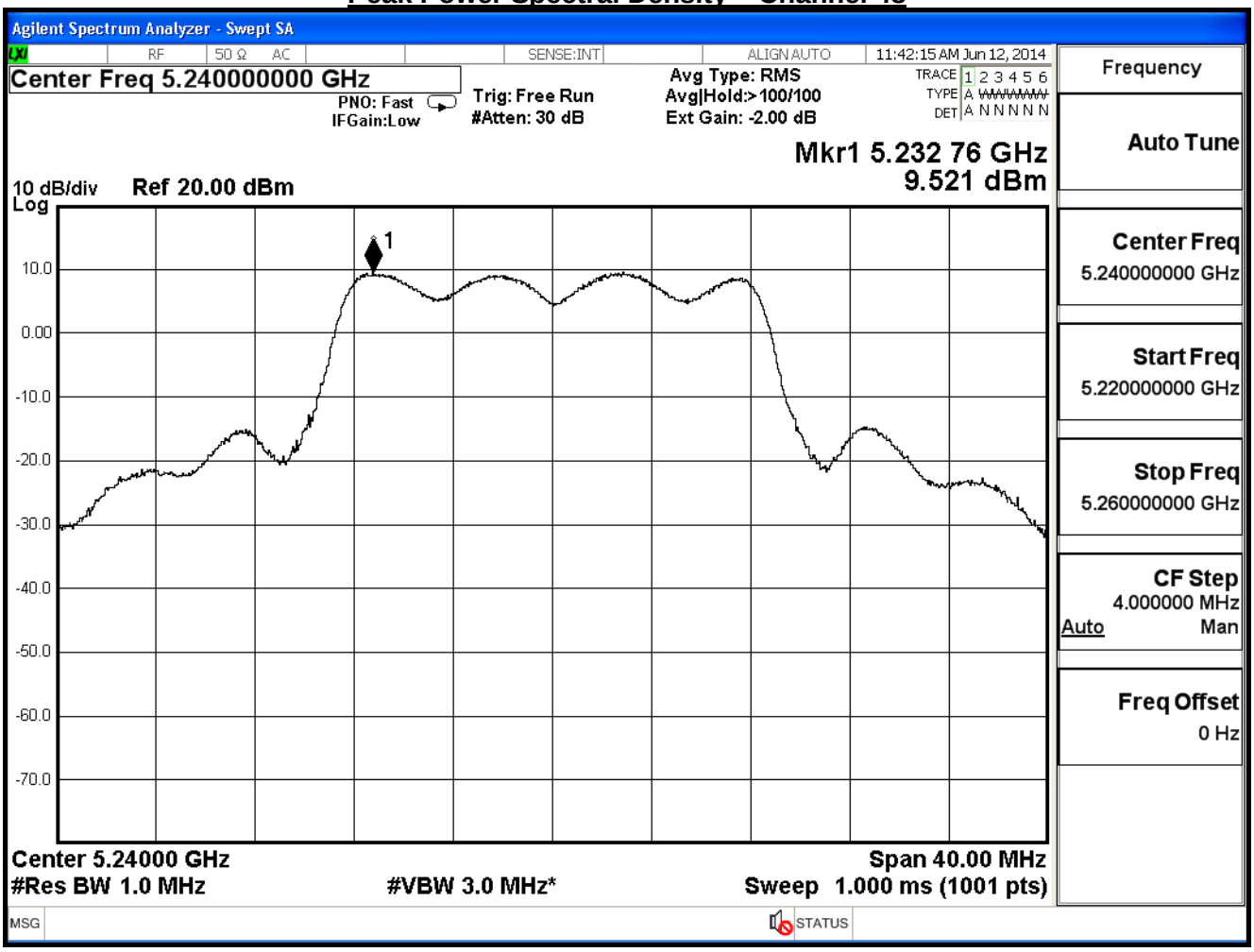
Peak Power Spectral Density – Channel 36



Peak Power Spectral Density – Channel 44



Peak Power Spectral Density – Channel 48



Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

IEEE 802.11a (ANT 0+1+2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
36	5180	10.068	≦16.23	Pass
44	5220	14.396	≦16.23	Pass
48	5240	14.270	≦16.23	Pass

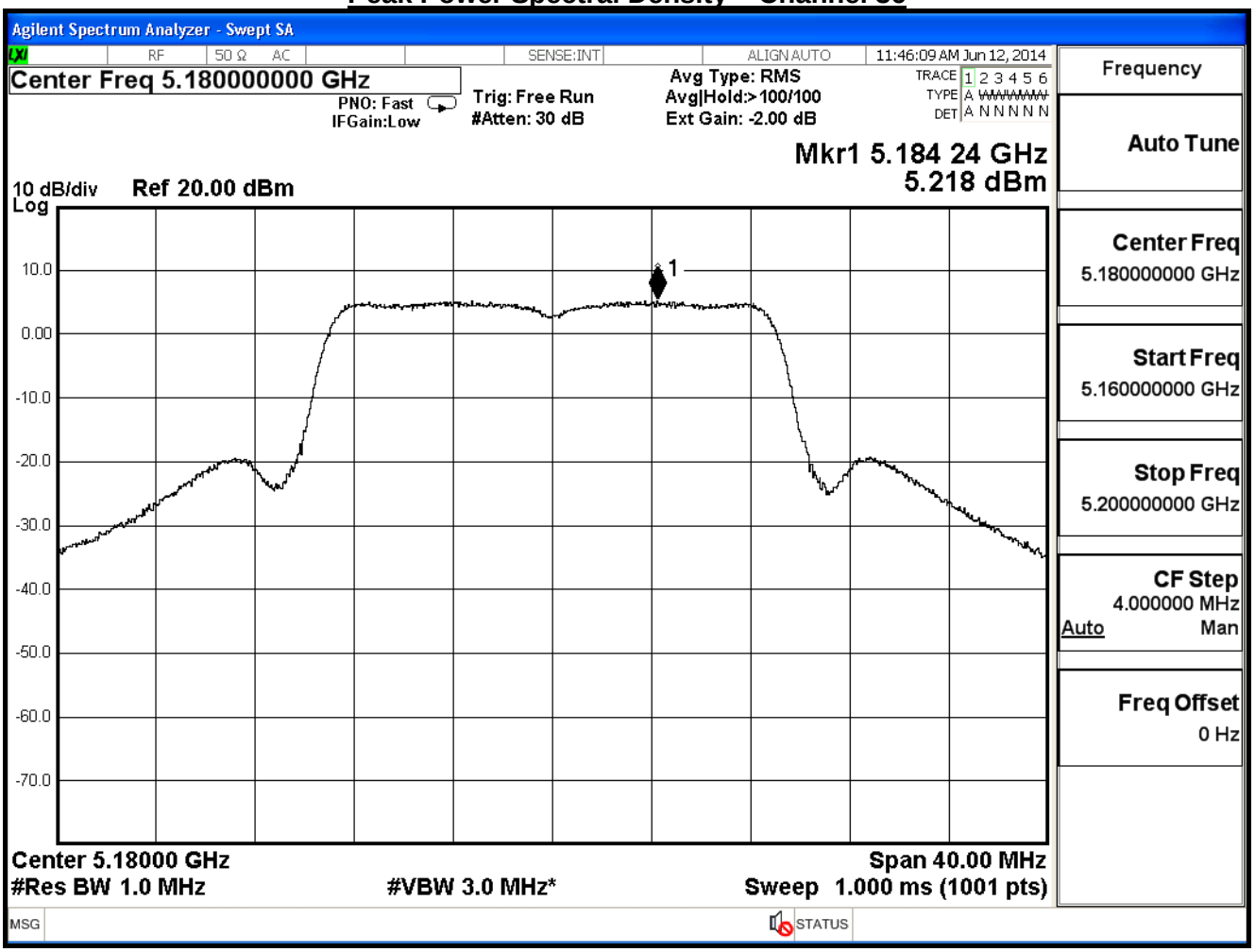
Note :
Directional Antenna : 10log(Ant N)+Max Gain = 6.77dBi
Power Density Limit :17dBm-(6.77dBi-6dB)=16.23dBm

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

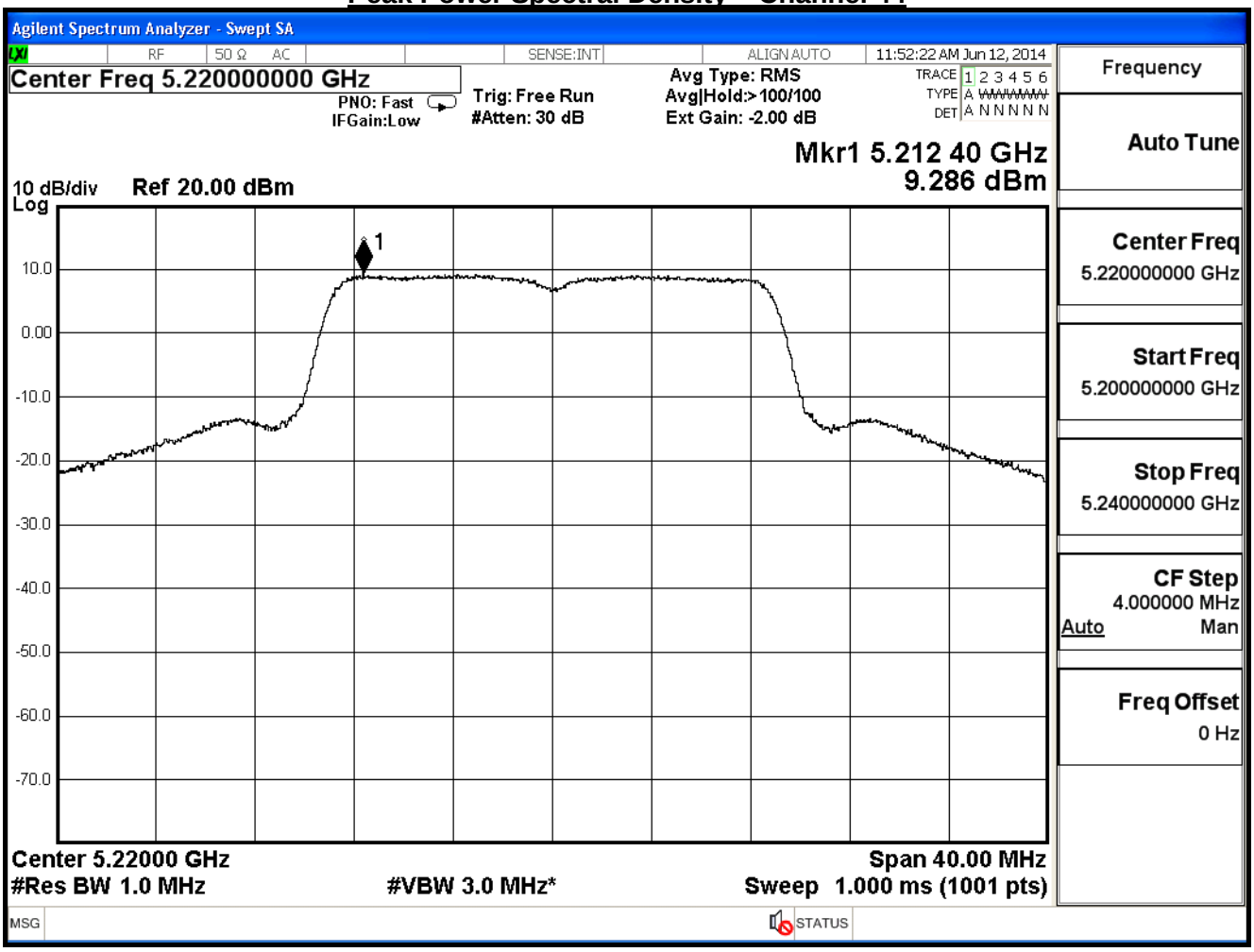
IEEE 802.11n_20M(ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
36	5180	5.218	≦16.23	Pass
44	5220	9.286	≦16.23	Pass
48	5240	9.290	≦16.23	Pass

Note :
Directional Antenna : 10log(Ant N)+Max Gain = 6.77dBi
Power Density Limit :17dBm-(6.77dBi-6dB)=16.23dBm

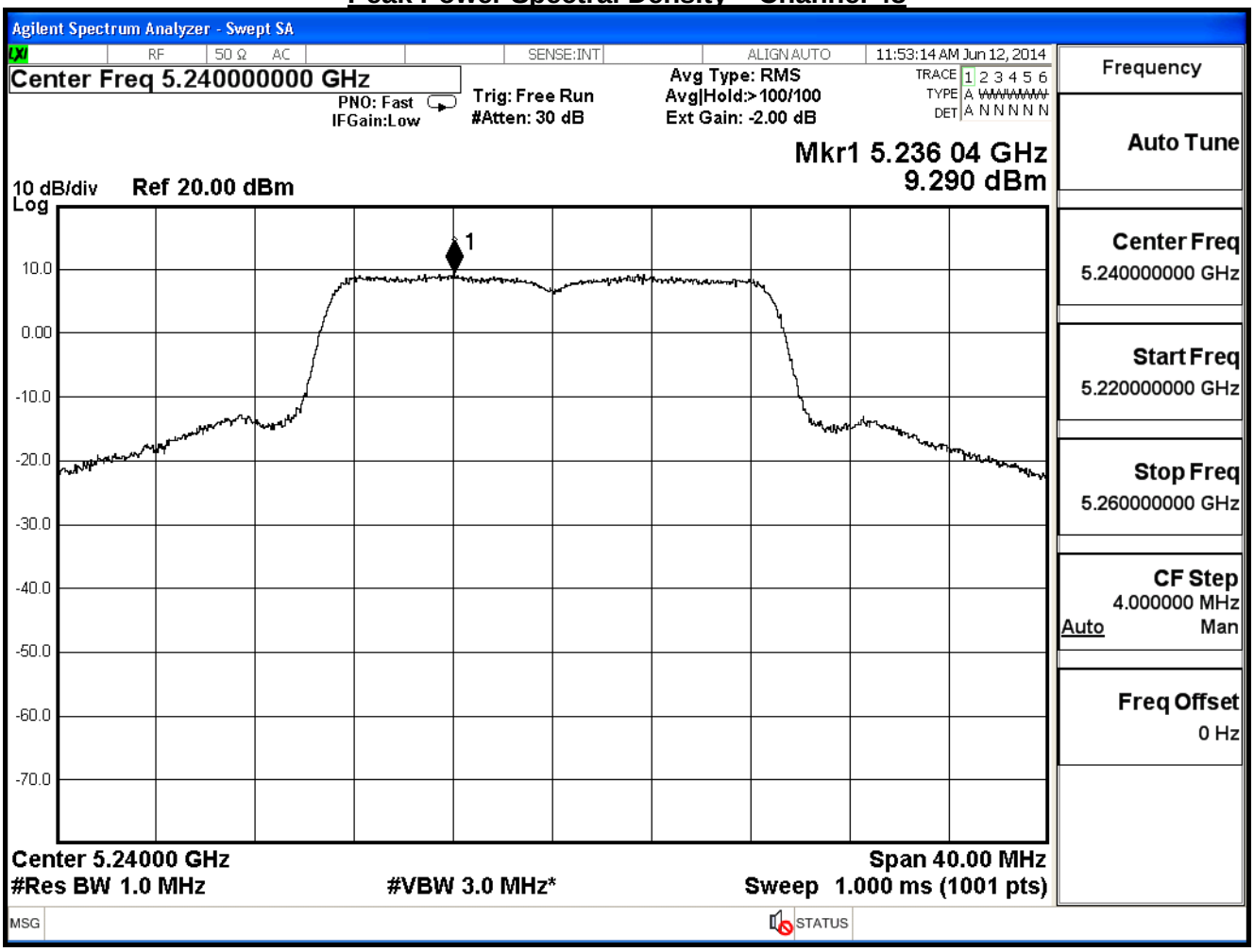
Peak Power Spectral Density – Channel 36



Peak Power Spectral Density – Channel 44



Peak Power Spectral Density – Channel 48

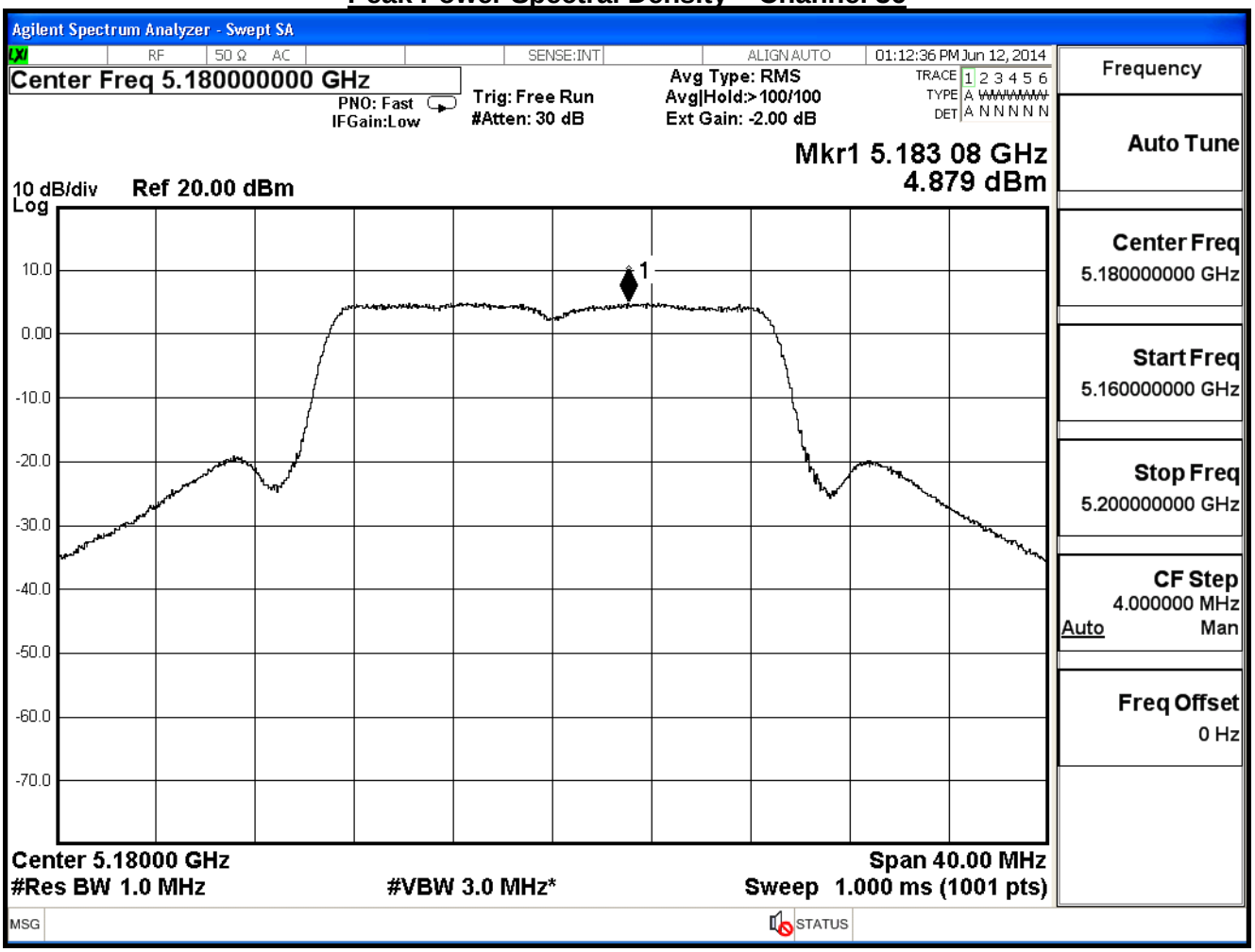


Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

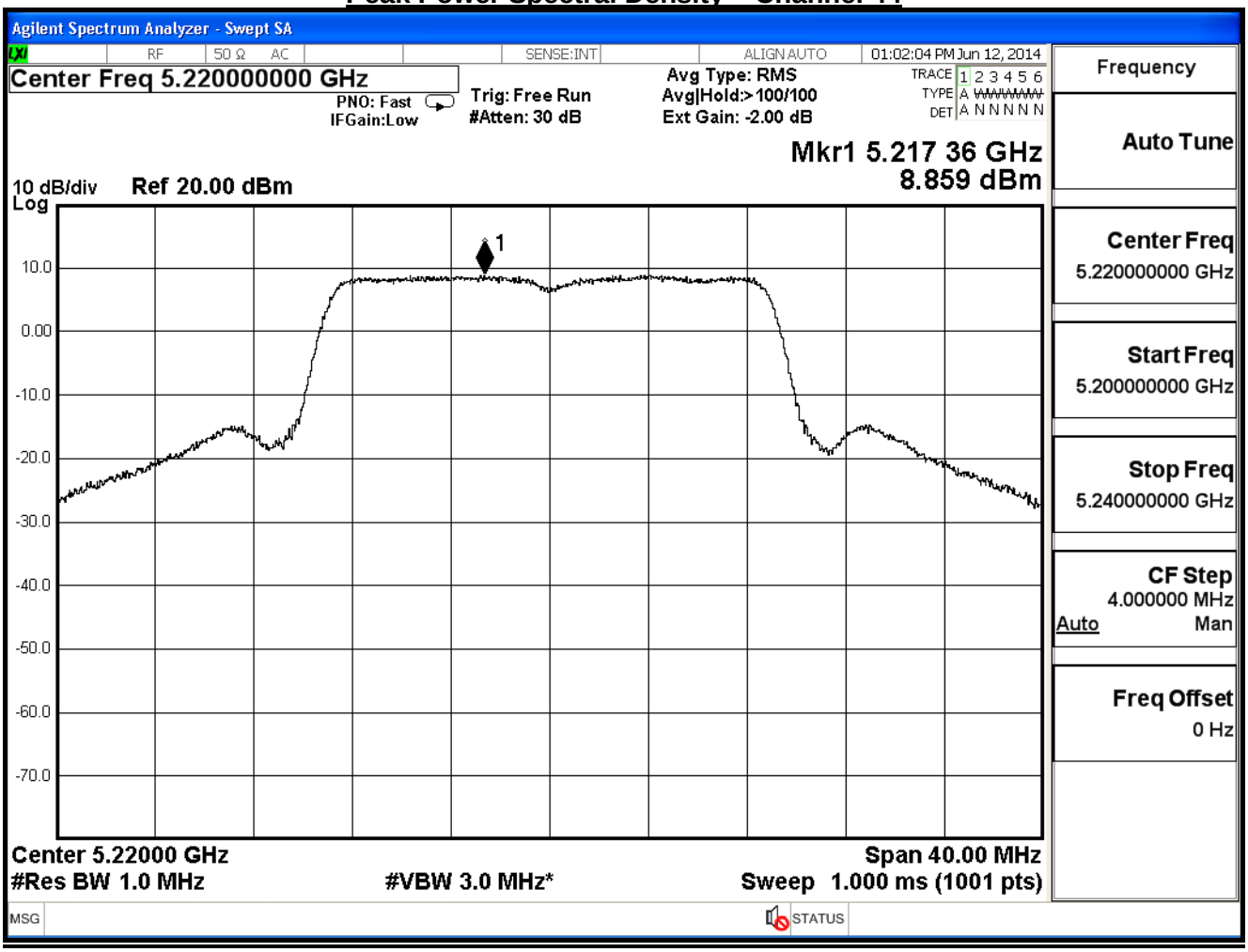
IEEE 802.11n_20M(ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
36	5180	4.879	≦16.23	Pass
44	5220	8.859	≦16.23	Pass
48	5240	8.877	≦16.23	Pass

Note :
Directional Antenna : 10log(Ant N)+Max Gain = 6.77dBi
Power Density Limit :17dBm-(6.77dBi-6dB)=16.23dBm

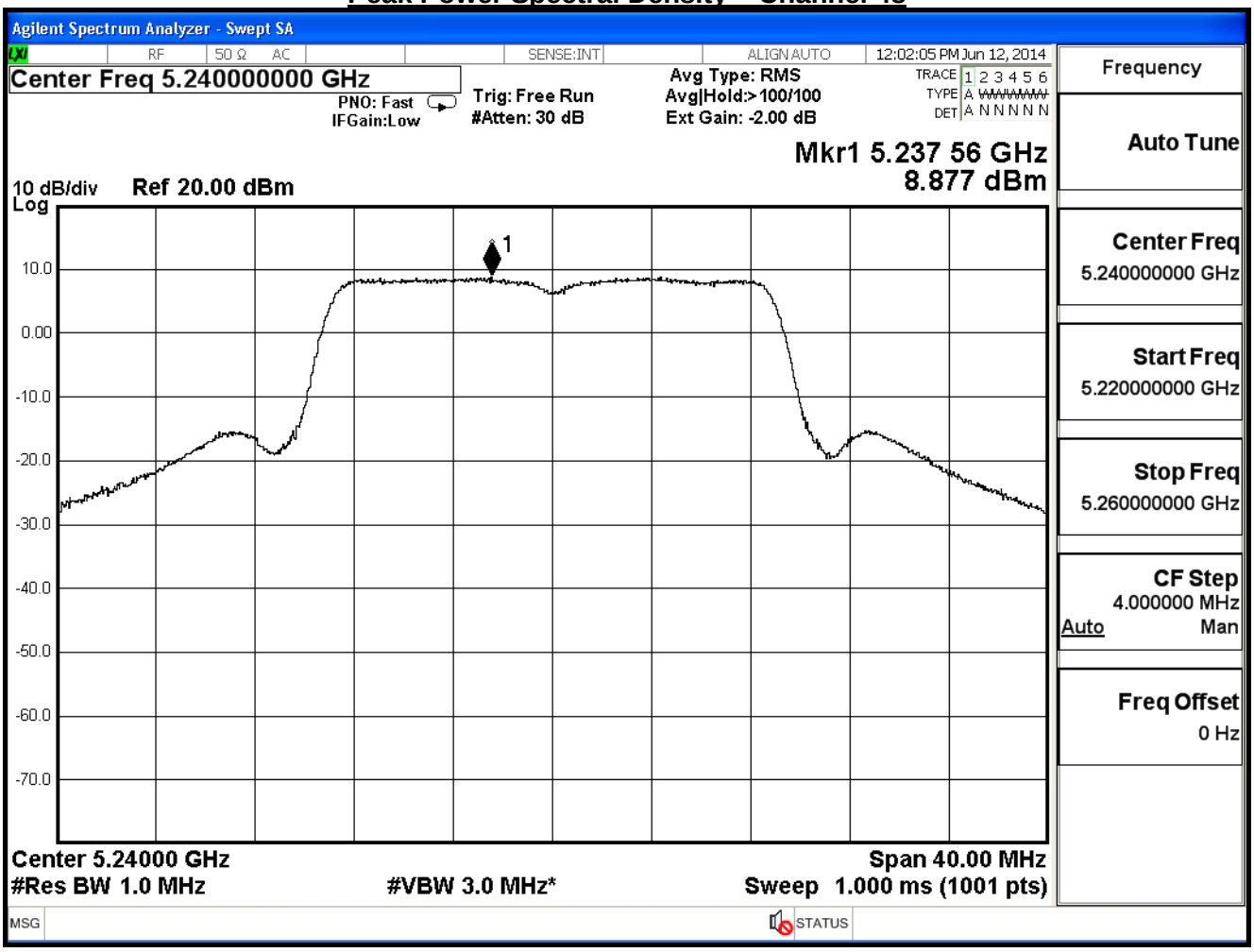
Peak Power Spectral Density – Channel 36



Peak Power Spectral Density – Channel 44



Peak Power Spectral Density – Channel 48

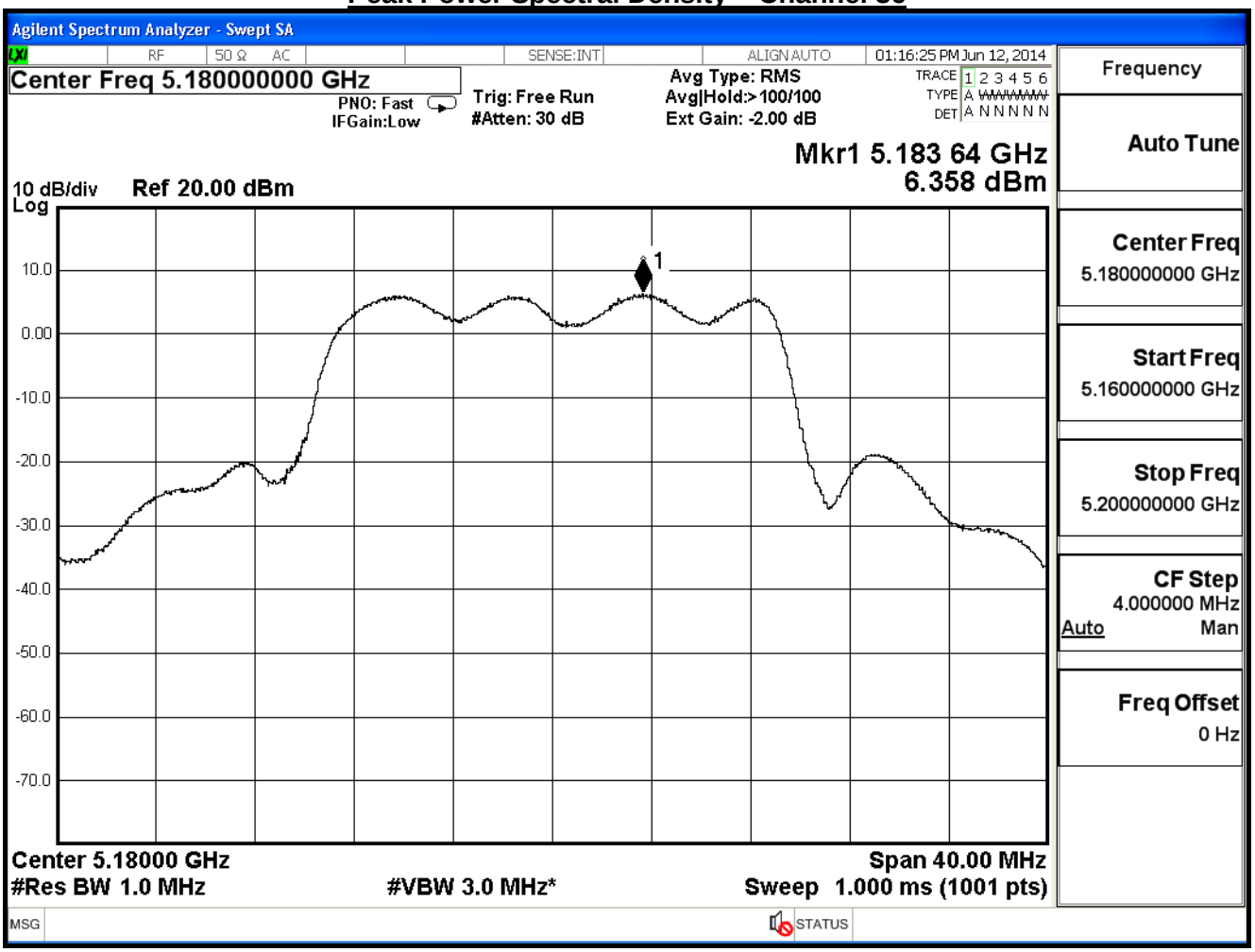


Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

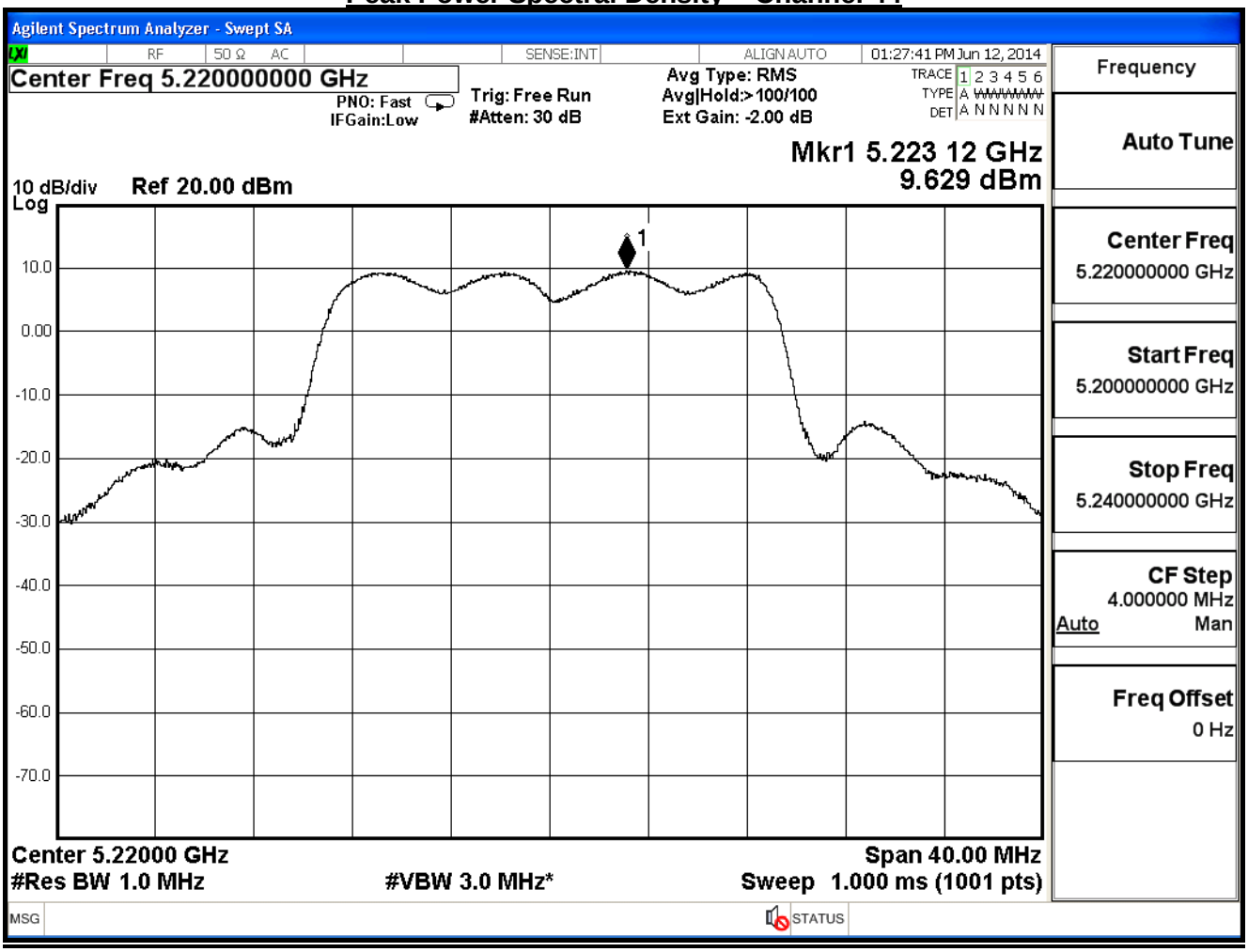
IEEE 802.11n_20M(ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
36	5180	6.358	≦16.23	Pass
44	5220	9.629	≦16.23	Pass
48	5240	9.447	≦16.23	Pass

Note :
Directional Antenna : 10log(Ant N)+Max Gain = 6.77dBi
Power Density Limit :17dBm-(6.77dBi-6dB)=16.23dBm

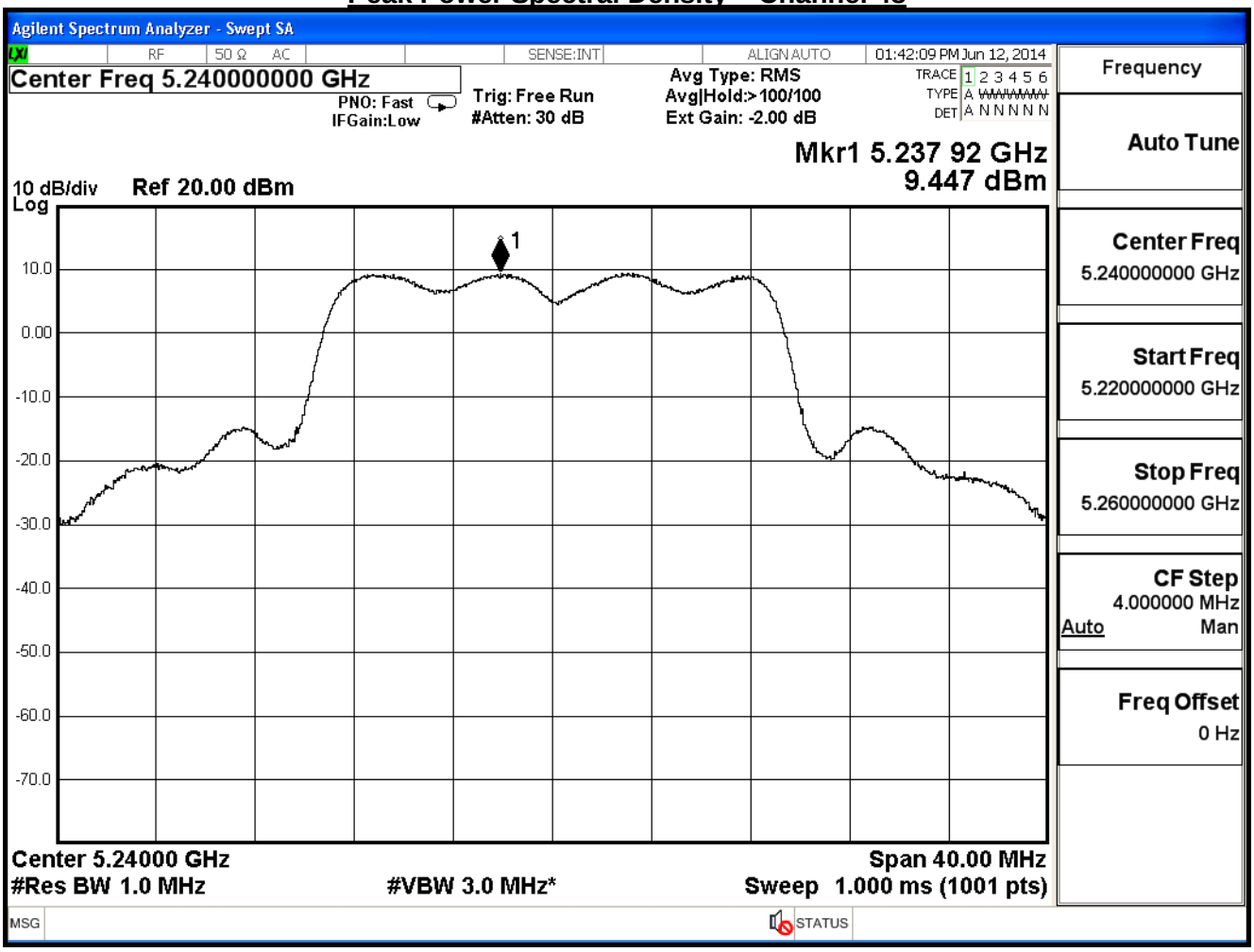
Peak Power Spectral Density – Channel 36



Peak Power Spectral Density – Channel 44



Peak Power Spectral Density – Channel 48



Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

IEEE 802.11n_20M(ANT 0+1+2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
36	5180	10.303	≦16.23	Pass
44	5220	14.041	≦16.23	Pass
48	5240	13.982	≦16.23	Pass

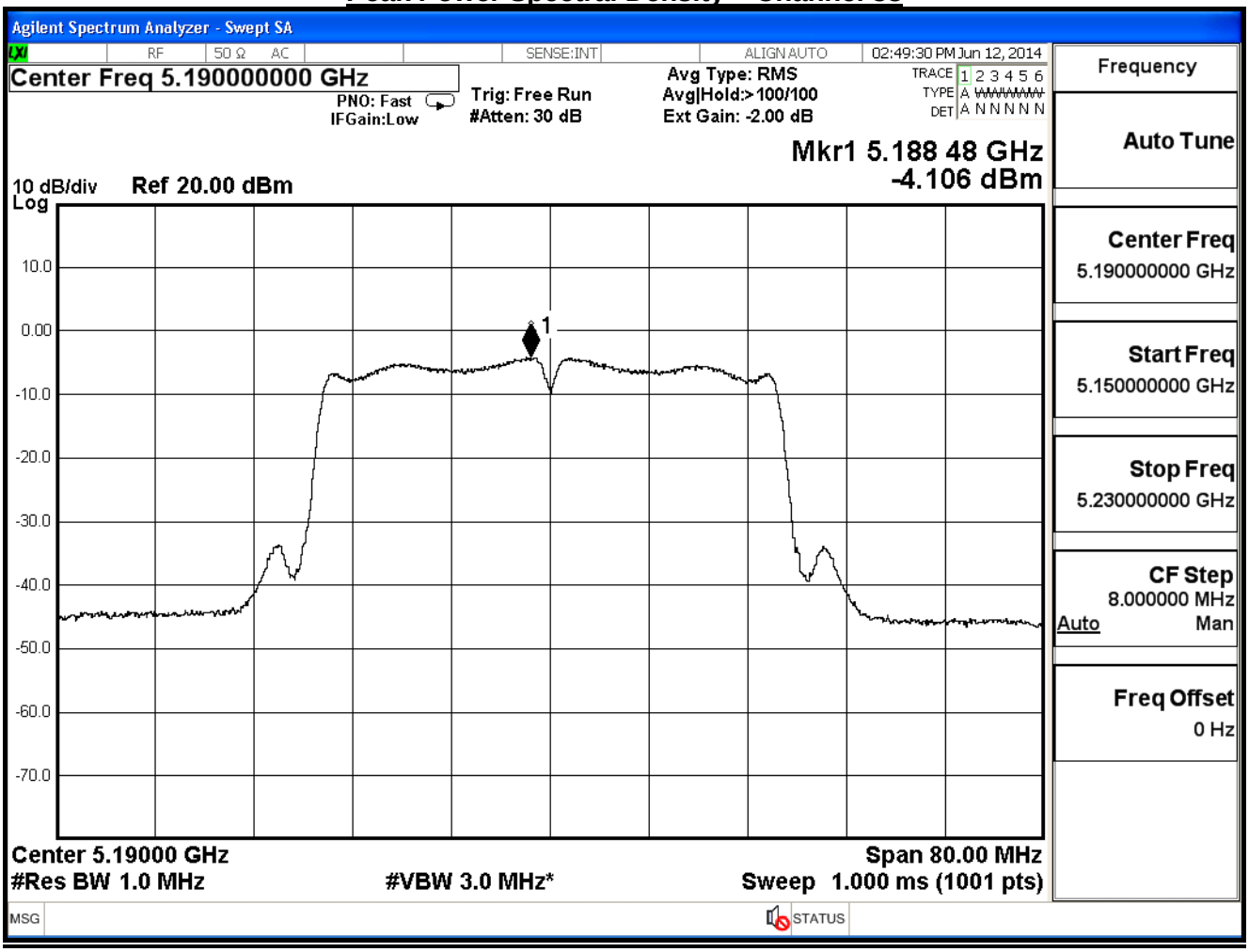
Note :
Directional Antenna : 10log(Ant N)+Max Gain = 6.77dBi
Power Density Limit :17dBm-(6.77dBi-6dB)=16.23dBm

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

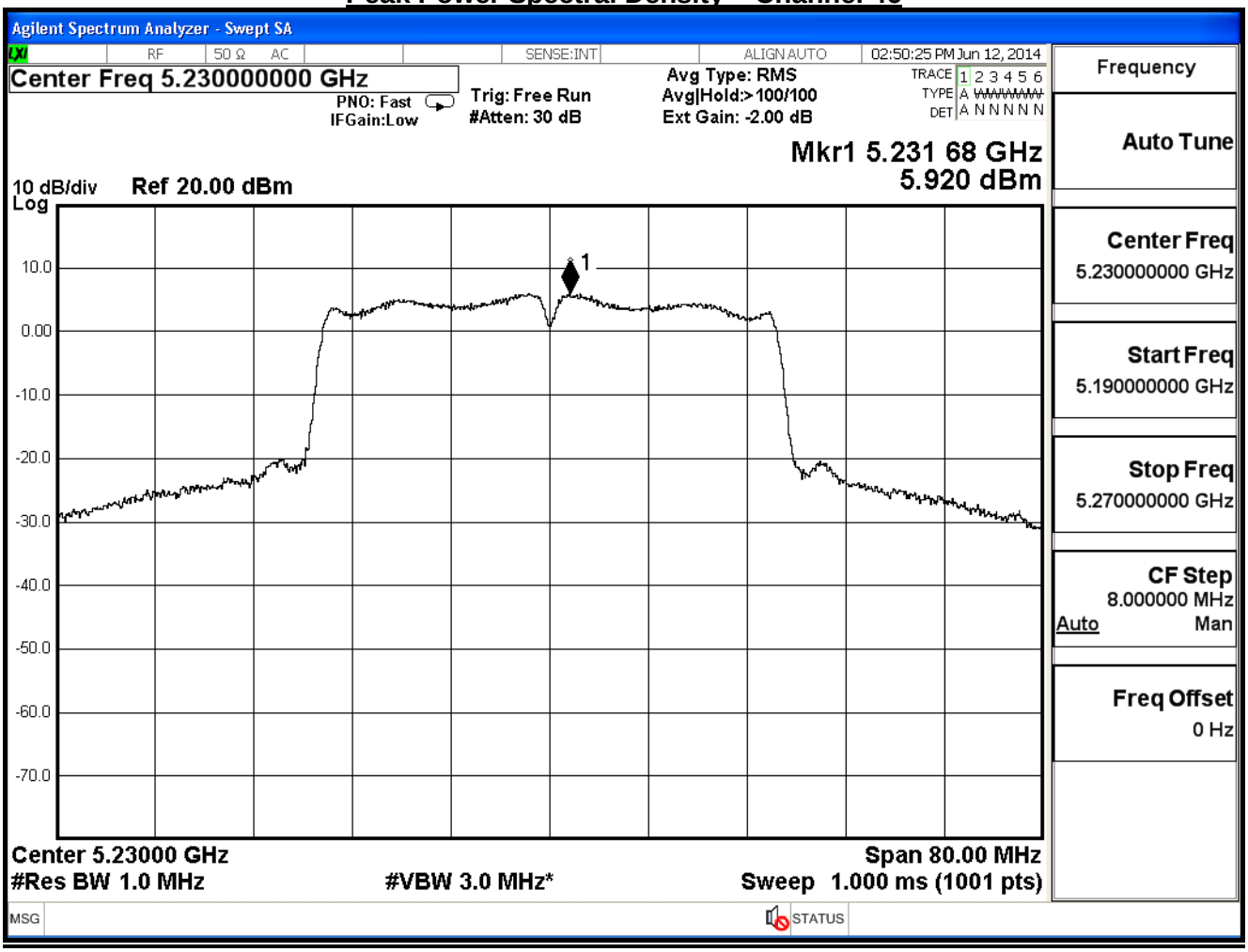
IEEE 802.11n_40M(ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
38	5190	-4.106	≦16.23	Pass
46	5230	5.920	≦16.23	Pass

Note :
Directional Antenna : 10log(Ant N)+Max Gain = 6.77dBi
Power Density Limit :17dBm-(6.77dBi-6dB)=16.23dBm

Peak Power Spectral Density – Channel 38



Peak Power Spectral Density – Channel 46

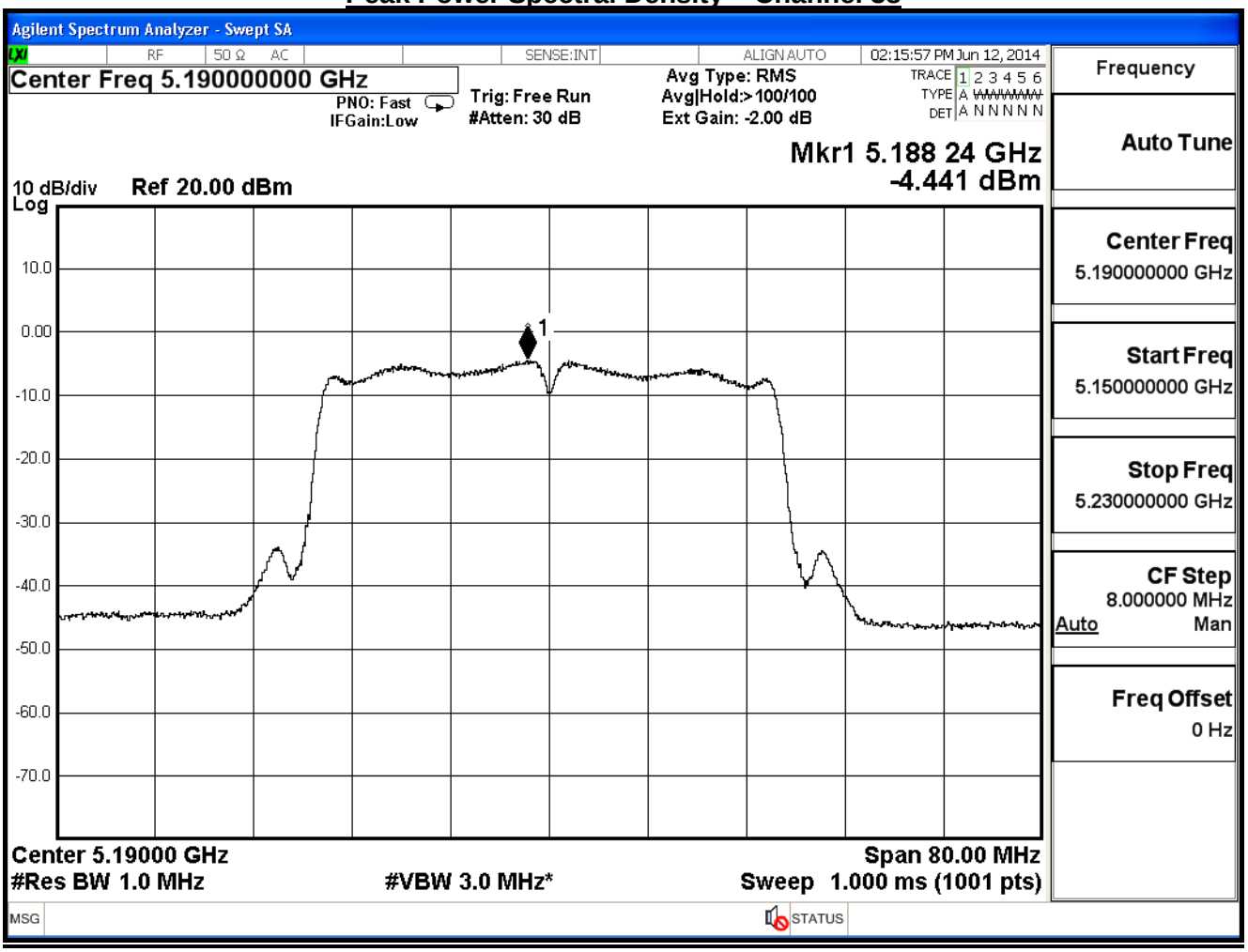


Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

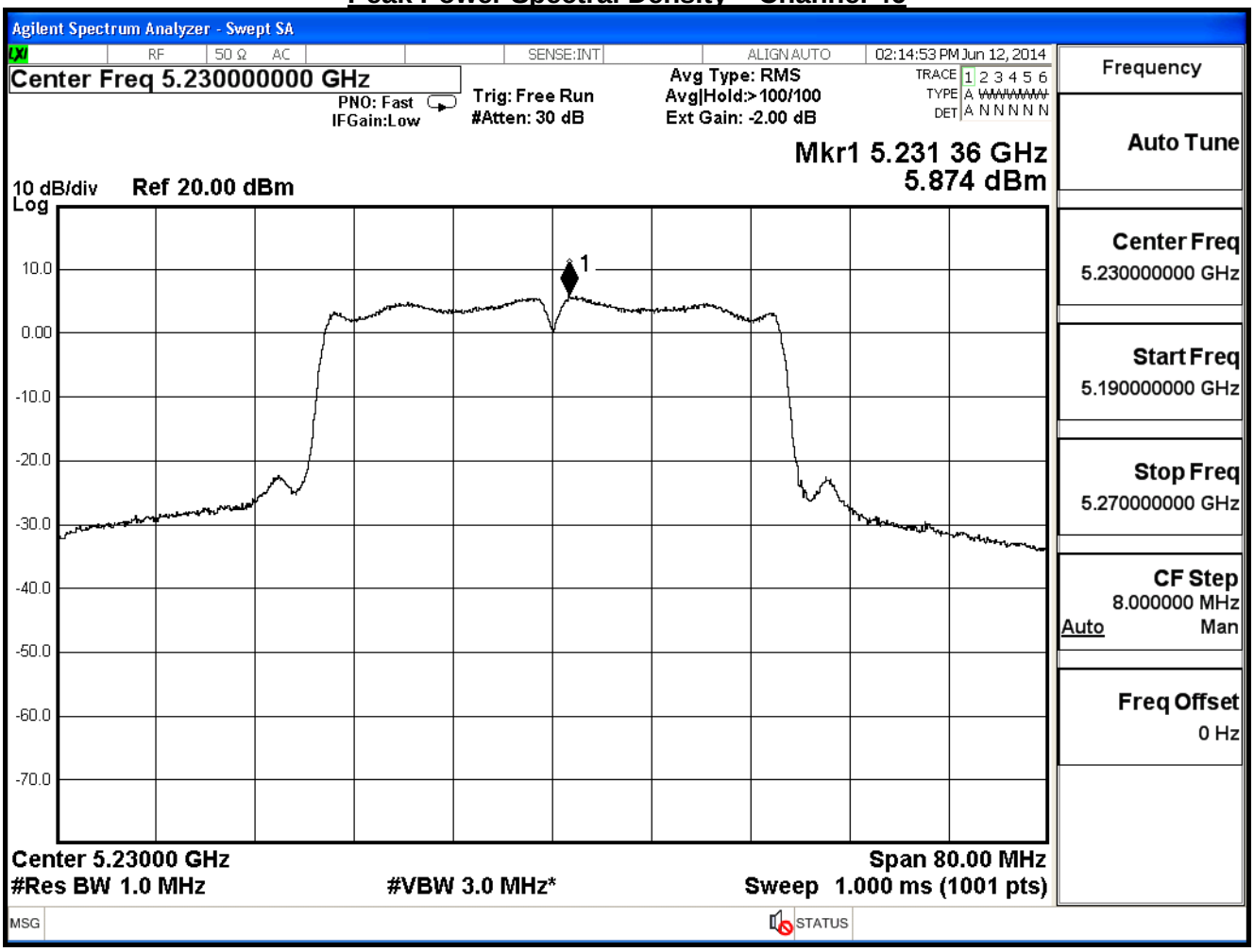
IEEE 802.11n_40M(ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
38	5190	-4.441	≦16.23	Pass
46	5230	5.874	≦16.23	Pass

Note :
Directional Antenna : 10log(Ant N)+Max Gain = 6.77dBi
Power Density Limit :17dBm-(6.77dBi-6dB)=16.23dBm

Peak Power Spectral Density – Channel 38



Peak Power Spectral Density – Channel 46

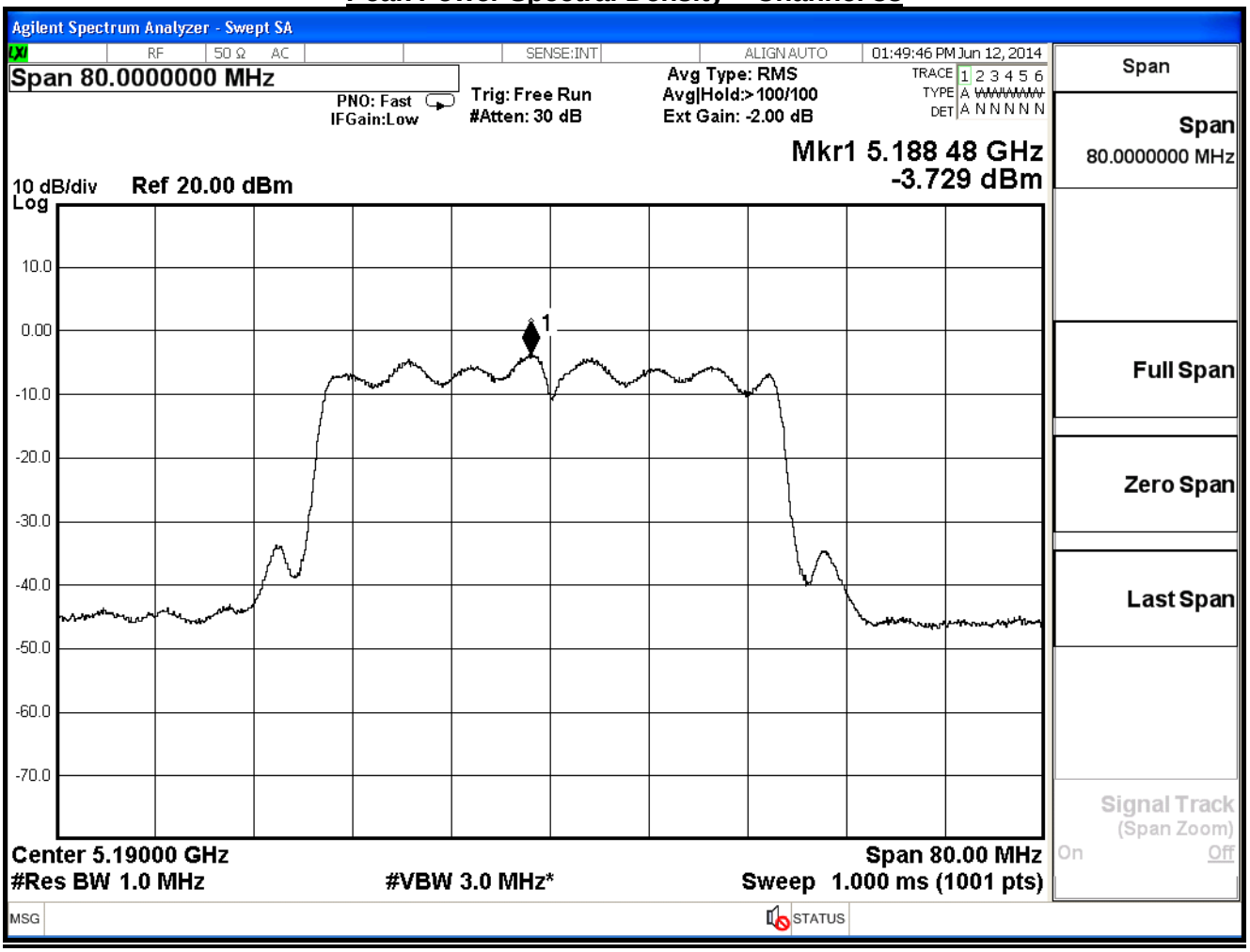


Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

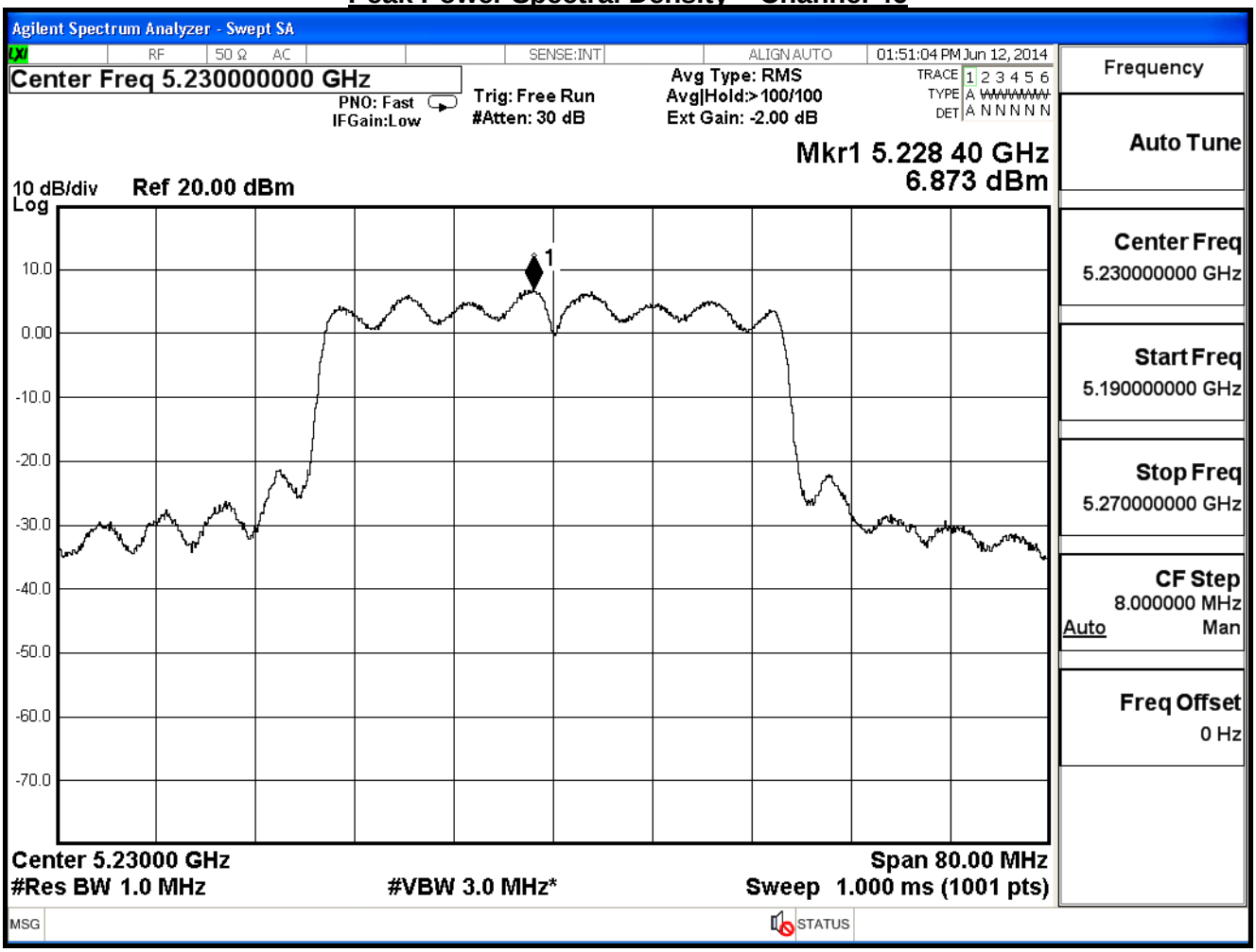
IEEE 802.11n_40M(ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
38	5190	-3.729	≦16.23	Pass
46	5230	6.873	≦16.23	Pass

Note :
Directional Antenna : 10log(Ant N)+Max Gain = 6.77dBi
Power Density Limit :17dBm-(6.77dBi-6dB)=16.23dBm

Peak Power Spectral Density – Channel 38



Peak Power Spectral Density – Channel 46



Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH		
Date of Test	2014/06/12	Test Site	SR7

IEEE 802.11n_40M(ANT 0+1+2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
38	5190	0.689	≦16.23	Pass
46	5230	11.019	≦16.23	Pass

Note :
Directional Antenna : 10log(Ant N)+Max Gain = 6.77dBi
Power Density Limit :17dBm-(6.77dBi-6dB)=16.23dBm

6. Radiated Emission

6.1. Test Equipment

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

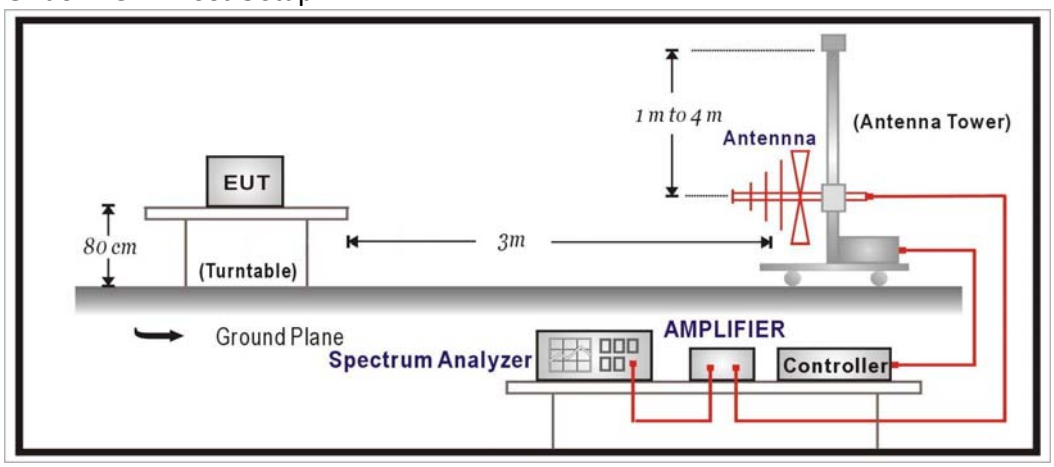
Radiated Emission / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895(CB1)	2014/08/14
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120	D743	2015/02/12
Pre-Amplifier	Quietek	AMF-4D.	888003	2015/06/02
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2015/02/06
Spectrum Analyzer	Agilent	E4440A	MY46187335	2015/01/12
k Type Cable	Huber Suhner	Sucoflex 102	25623/2	2015/02/10

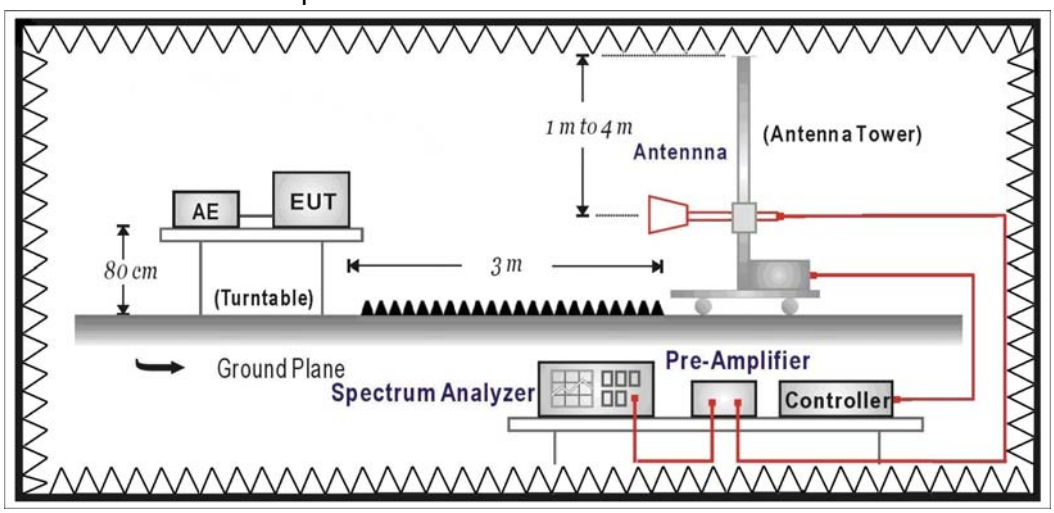
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

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
5725~5825	-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 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 C63.4: 2009 on radiated measurement.
The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field dtrength 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 harminics is checked.

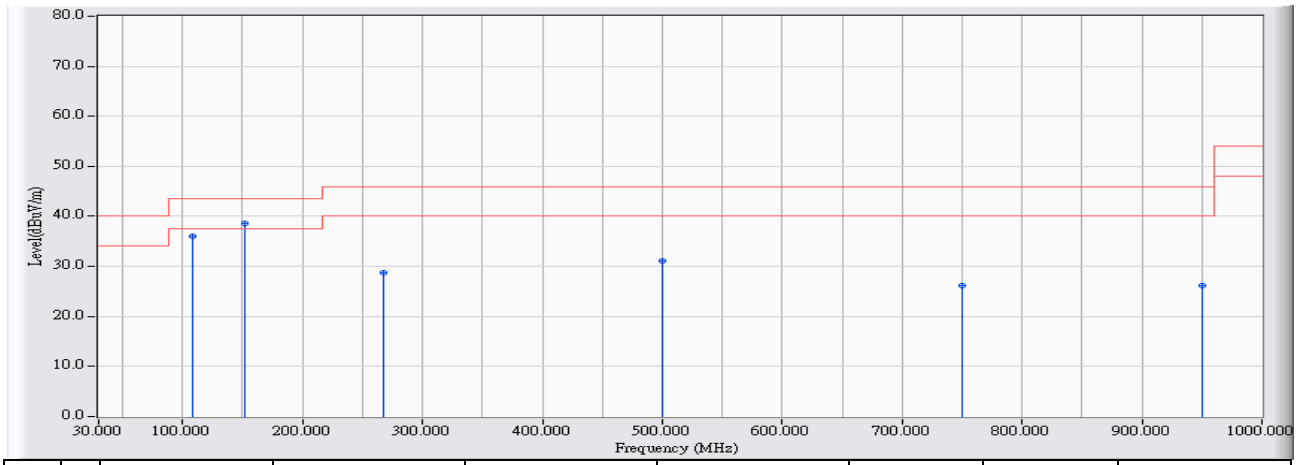
6.5. Uncertainty

The measurement uncertainty
30MHz～1GHz as ±3.43dB
1GHz～26.5Ghz as ±3.65dB

6.6. Test Result

30MHz-1GHz Spurious

Site : CB1	**Time : 2014/06/13 - 10:27**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5220MHz**

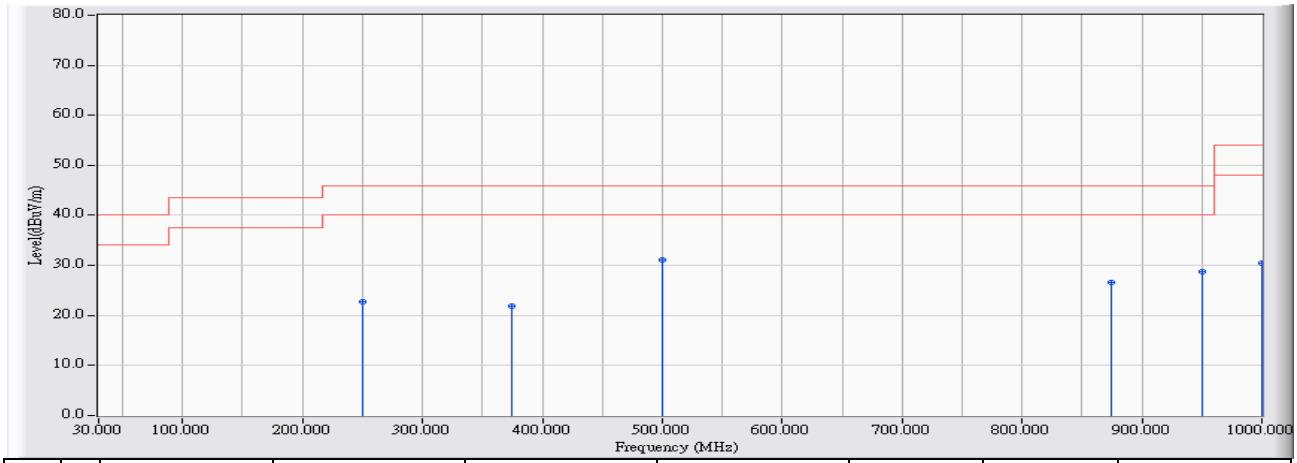


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		108.689	-23.325	59.324	35.999	-7.501	43.500	QUASIPEAK
2	*	151.745	-24.001	62.621	38.620	-4.880	43.500	QUASIPEAK
3		267.056	-21.254	49.948	28.695	-17.305	46.000	QUASIPEAK
4		500.153	-16.219	47.272	31.052	-14.948	46.000	QUASIPEAK
5		750.077	-14.946	41.153	26.207	-19.793	46.000	QUASIPEAK
6		950.015	-13.719	39.865	26.146	-19.854	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 : 2014/06/13 - 10:30**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5220MHz**

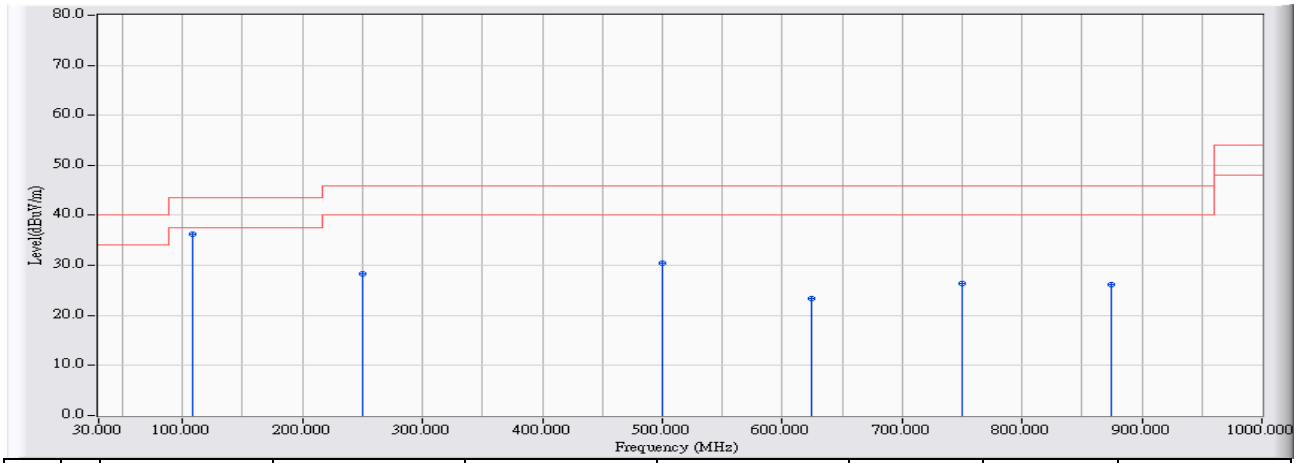


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		249.735	-21.592	44.325	22.733	-23.267	46.000	QUASIPEAK
2		374.944	-18.848	40.792	21.945	-24.055	46.000	QUASIPEAK
3	*	500.153	-16.219	47.370	31.150	-14.850	46.000	QUASIPEAK
4		874.791	-14.193	40.862	26.669	-19.331	46.000	QUASIPEAK
5		950.015	-13.719	42.558	28.839	-17.161	46.000	QUASIPEAK
6		1000.000	-13.311	43.746	30.435	-23.565	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 : 2014/06/13 - 10:33**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5220MHz**

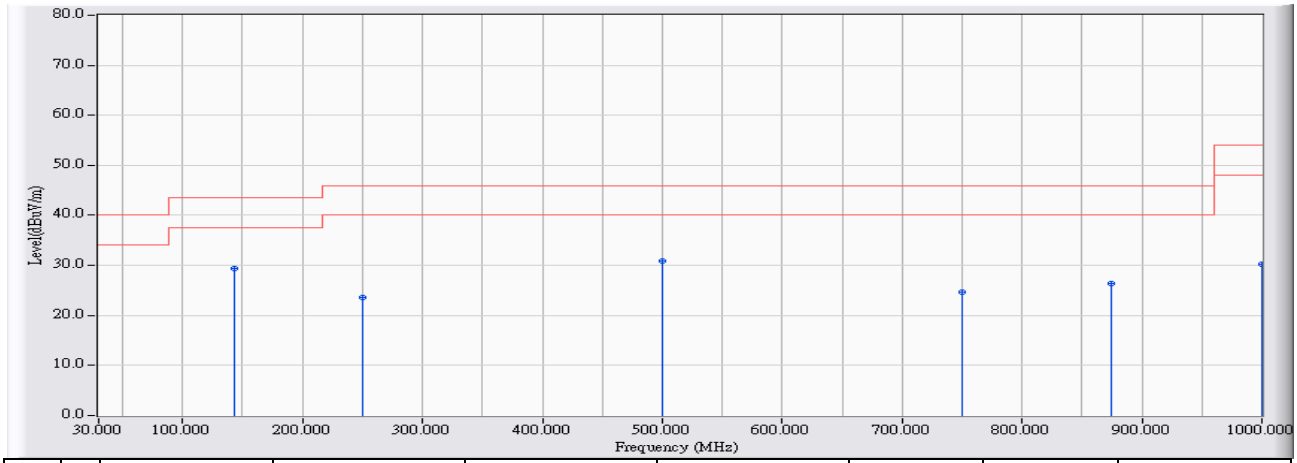


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	108.689	-23.325	59.465	36.140	-7.360	43.500	QUASIPEAK
2		250.230	-21.562	49.878	28.316	-17.684	46.000	QUASIPEAK
3		500.153	-16.219	46.644	30.424	-15.576	46.000	QUASIPEAK
4		624.867	-15.890	39.320	23.430	-22.570	46.000	QUASIPEAK
5		750.077	-14.946	41.344	26.398	-19.602	46.000	QUASIPEAK
6		874.791	-14.193	40.253	26.060	-19.940	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 : 2014/06/13 - 10:37**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5220MHz**

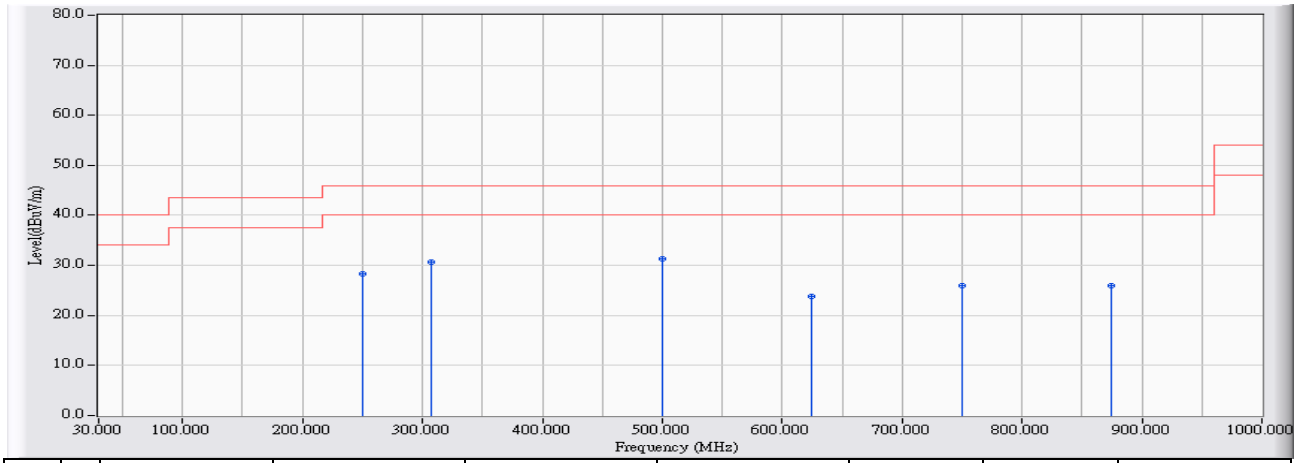


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	143.332	-23.591	53.006	29.415	-14.085	43.500	QUASIPEAK
2		250.230	-21.562	45.085	23.523	-22.477	46.000	QUASIPEAK
3		500.153	-16.219	47.053	30.833	-15.167	46.000	QUASIPEAK
4		750.077	-14.946	39.646	24.700	-21.300	46.000	QUASIPEAK
5		874.791	-14.193	40.552	26.359	-19.641	46.000	QUASIPEAK
6		1000.000	-13.311	43.640	30.329	-23.671	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 : 2014/06/13 - 10:42**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(40MHz)_5230MHz**

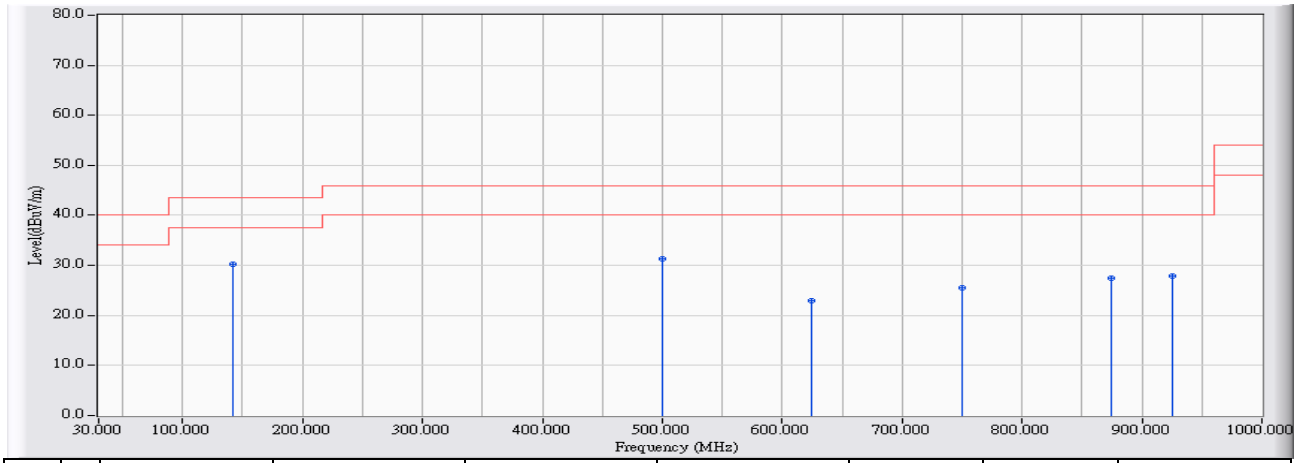


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		250.230	-21.562	49.883	28.321	-17.679	46.000	QUASIPEAK
2		307.143	-20.476	51.131	30.655	-15.345	46.000	QUASIPEAK
3	*	500.153	-16.219	47.608	31.388	-14.612	46.000	QUASIPEAK
4		624.867	-15.890	39.625	23.735	-22.265	46.000	QUASIPEAK
5		750.077	-14.946	40.879	25.933	-20.067	46.000	QUASIPEAK
6		874.791	-14.193	40.146	25.953	-20.047	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 : 2014/06/13 - 10:45**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(40MHz)_5230MHz**

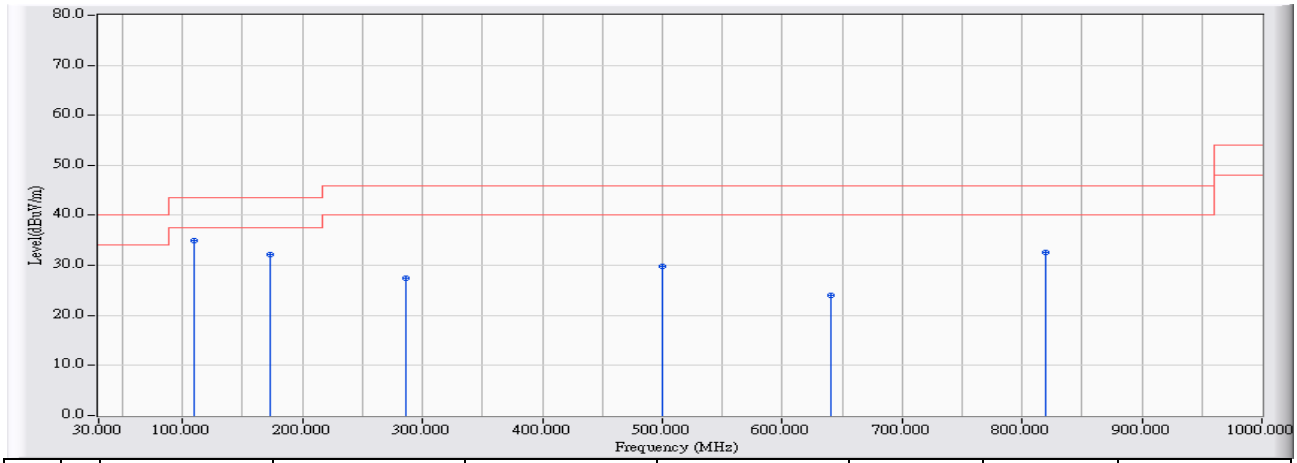


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	141.352	-23.495	53.711	30.217	-13.283	43.500	QUASIPEAK
2		500.153	-16.219	47.434	31.214	-14.786	46.000	QUASIPEAK
3		624.867	-15.890	38.773	22.883	-23.117	46.000	QUASIPEAK
4		750.077	-14.946	40.392	25.446	-20.554	46.000	QUASIPEAK
5		874.791	-14.193	41.726	27.533	-18.467	46.000	QUASIPEAK
6		924.776	-13.926	41.826	27.901	-18.099	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 : 2014/06/20 - 15:39**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 2: Transmit(CDD Mode)_Adapter: ASUS, AD82030 802.11a_5220MHz**

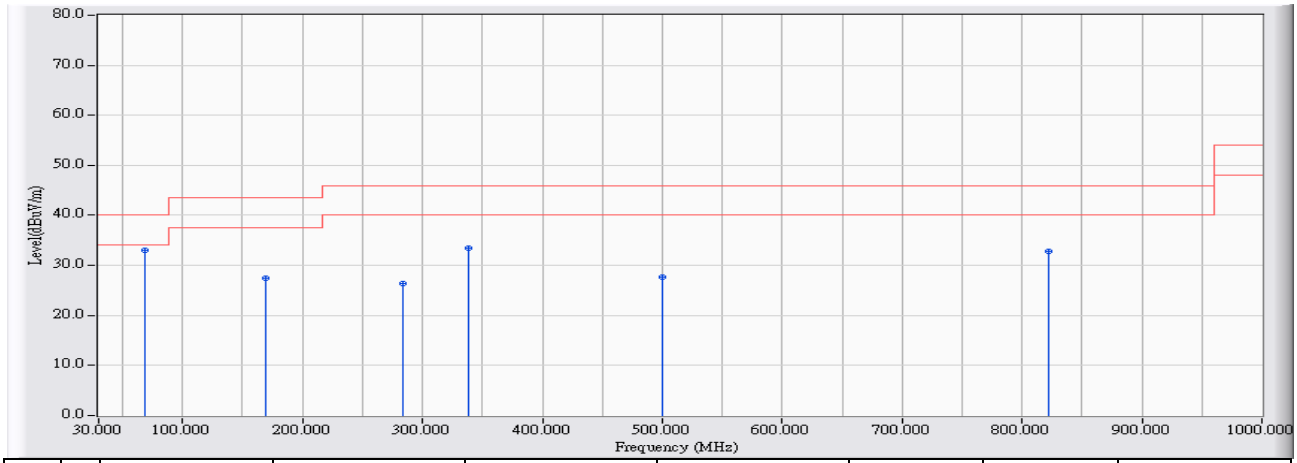


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	109.055	-23.306	58.368	35.061	-8.439	43.500	QUASIPEAK
2		172.590	-24.942	57.163	32.221	-11.279	43.500	QUASIPEAK
3		286.565	-20.894	48.376	27.481	-18.519	46.000	QUASIPEAK
4		499.965	-16.221	45.945	29.723	-16.277	46.000	QUASIPEAK
5		640.130	-15.812	39.752	23.940	-22.060	46.000	QUASIPEAK
6		819.095	-14.337	46.858	32.521	-13.479	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 : 2014/06/20 - 15:41**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 2: Transmit(CDD Mode)_Adapter: ASUS, AD82030 802.11a_5220MHz**

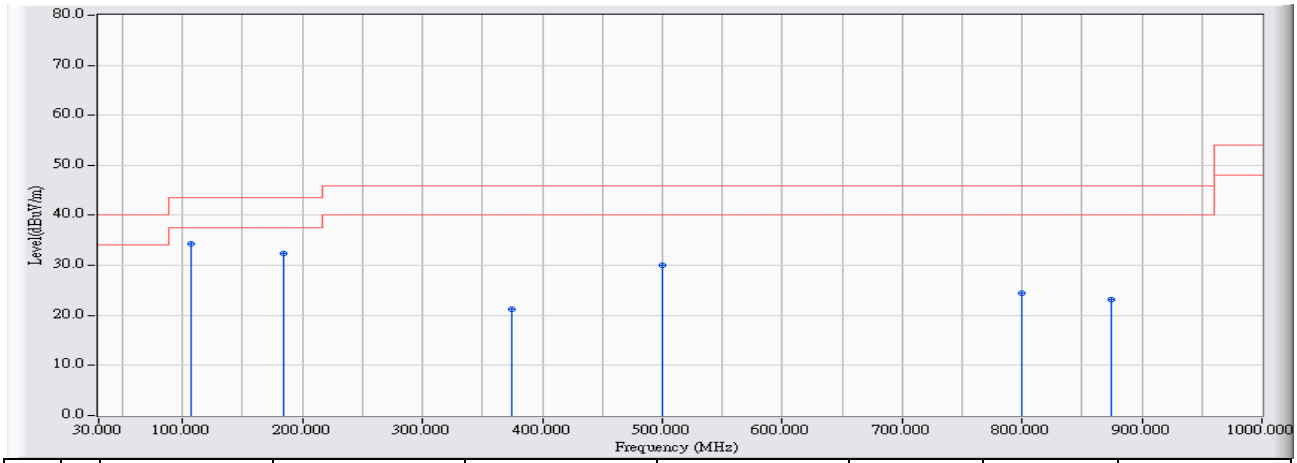


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	68.800	-27.945	60.901	32.956	-7.044	40.000	QUASIPEAK
2		168.710	-24.776	52.287	27.511	-15.989	43.500	QUASIPEAK
3		283.655	-20.948	47.394	26.446	-19.554	46.000	QUASIPEAK
4		338.460	-19.724	53.232	33.508	-12.492	46.000	QUASIPEAK
5		499.965	-16.221	43.851	27.629	-18.371	46.000	QUASIPEAK
6		822.005	-14.330	47.198	32.869	-13.131	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 : 2014/06/20 - 15:43**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 2: Transmit(CDD Mode)_Adapter: ASUS, AD82030 802.11n20_5220MHz**

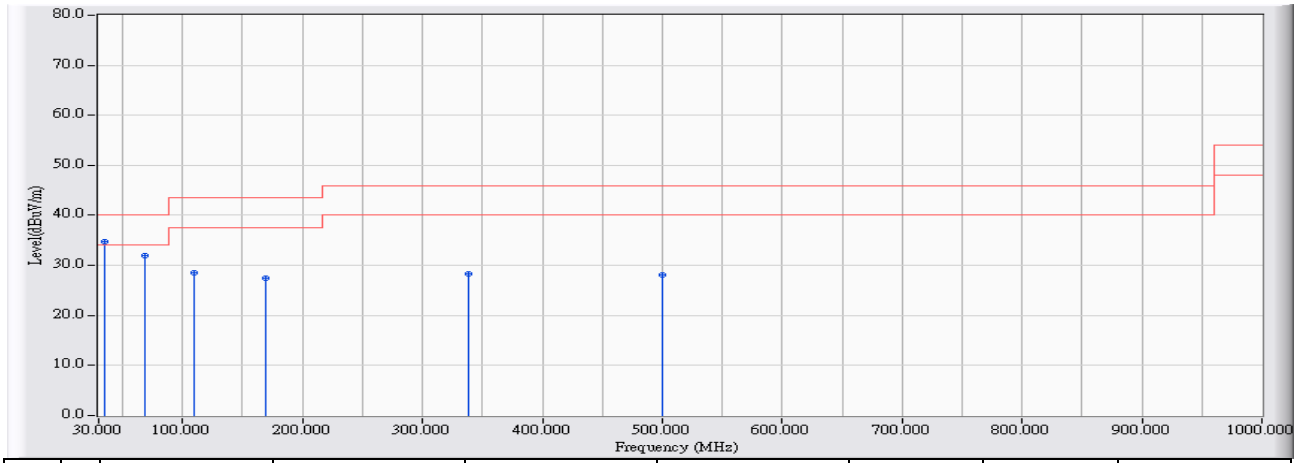


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	106.630	-23.426	57.820	34.393	-9.107	43.500	QUASIPEAK
2		183.745	-25.273	57.767	32.493	-11.007	43.500	QUASIPEAK
3		374.835	-18.850	40.038	21.188	-24.812	46.000	QUASIPEAK
4		499.965	-16.221	46.338	30.116	-15.884	46.000	QUASIPEAK
5		800.180	-14.386	38.785	24.400	-21.600	46.000	QUASIPEAK
6		874.870	-14.193	37.451	23.258	-22.742	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 : 2014/06/20 - 15:45**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 2: Transmit(CDD Mode)_Adapter: ASUS, AD82030 802.11n20_5220MHz**

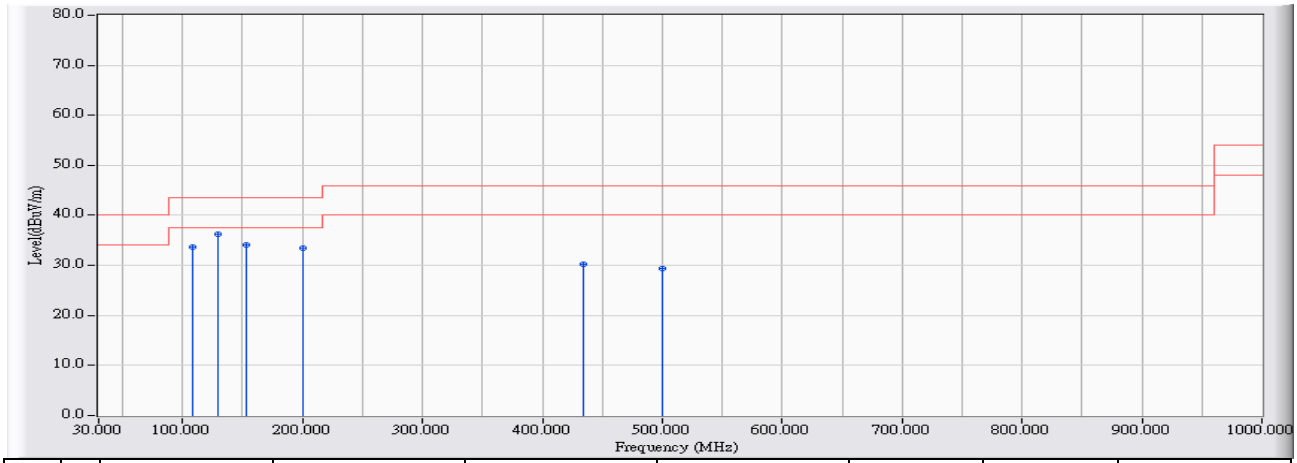


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	34.850	-20.638	55.361	34.723	-5.277	40.000	QUASIPEAK
2		68.800	-27.945	59.858	31.913	-8.087	40.000	QUASIPEAK
3		109.055	-23.306	51.833	28.526	-14.974	43.500	QUASIPEAK
4		168.710	-24.776	52.278	27.502	-15.998	43.500	QUASIPEAK
5		338.460	-19.724	48.134	28.410	-17.590	46.000	QUASIPEAK
6		499.965	-16.221	44.398	28.176	-17.824	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 : 2014/06/20 - 15:49**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 2: Transmit(CDD Mode)_Adapter: ASUS, AD82030 802.11n40_5230MHz**

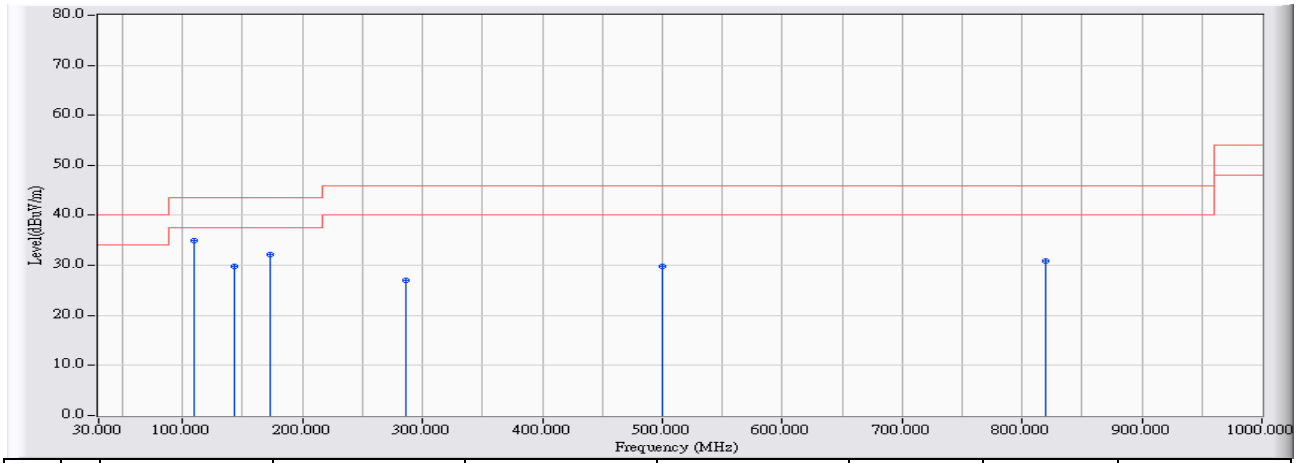


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		108.570	-23.330	56.939	33.608	-9.892	43.500	QUASIPEAK
2	*	129.910	-23.092	59.284	36.192	-7.308	43.500	QUASIPEAK
3		153.675	-24.095	58.143	34.048	-9.452	43.500	QUASIPEAK
4		200.235	-25.308	58.786	33.479	-10.021	43.500	QUASIPEAK
5		434.005	-17.555	47.762	30.206	-15.794	46.000	QUASIPEAK
6		499.965	-16.221	45.655	29.433	-16.567	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 : 2014/06/20 - 15:52**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 2: Transmit(CDD Mode)_Adapter: ASUS, AD82030 802.11n40_5230MHz**



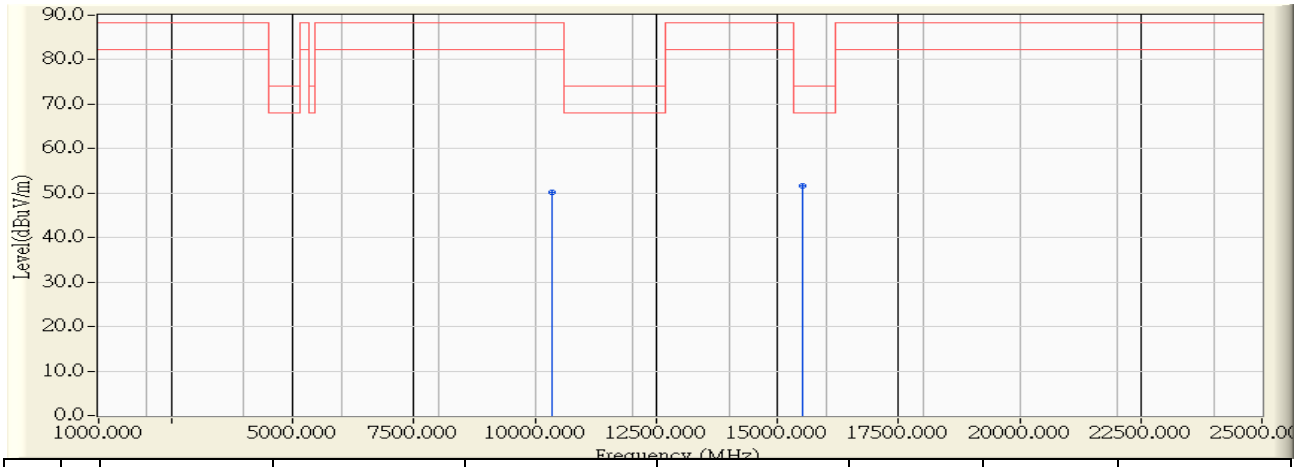
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	109.055	-23.306	58.368	35.061	-8.439	43.500	QUASIPEAK
2		143.490	-23.598	53.497	29.899	-13.601	43.500	QUASIPEAK
3		172.590	-24.942	57.163	32.221	-11.279	43.500	QUASIPEAK
4		286.080	-20.904	47.915	27.011	-18.989	46.000	QUASIPEAK
5		499.965	-16.221	45.945	29.723	-16.277	46.000	QUASIPEAK
6		820.065	-14.334	45.314	30.980	-15.020	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.

Harmonic & Spurious:

Site : CB1	**Time : 2014/06/11 - 20:44**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5180MHz**

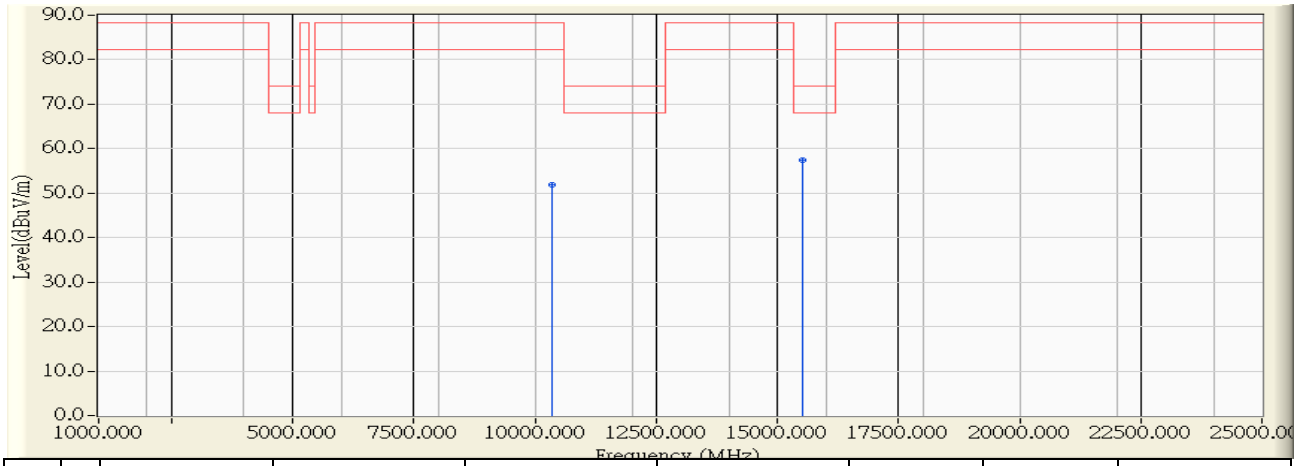


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10360.200	10.431	39.650	50.082	-38.218	88.300	PEAK
2	*	15537.900	11.111	40.590	51.701	-22.299	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/11 - 18:47**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5180MHz**

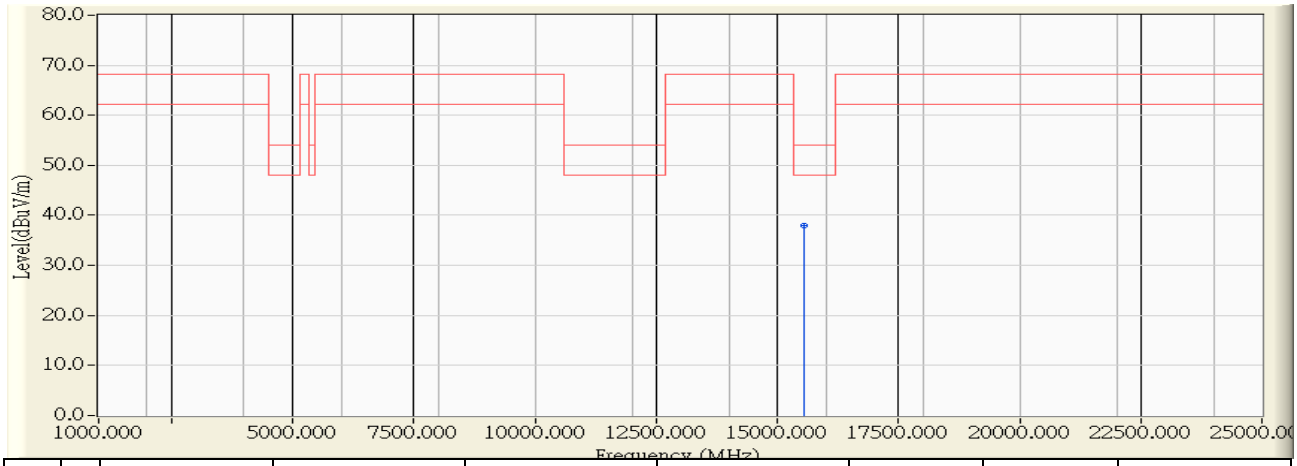


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10361.775	10.427	41.350	51.777	-36.523	88.300	PEAK
2	*	15538.175	11.111	46.250	57.361	-16.639	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/11 - 20:35**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5180MHz**

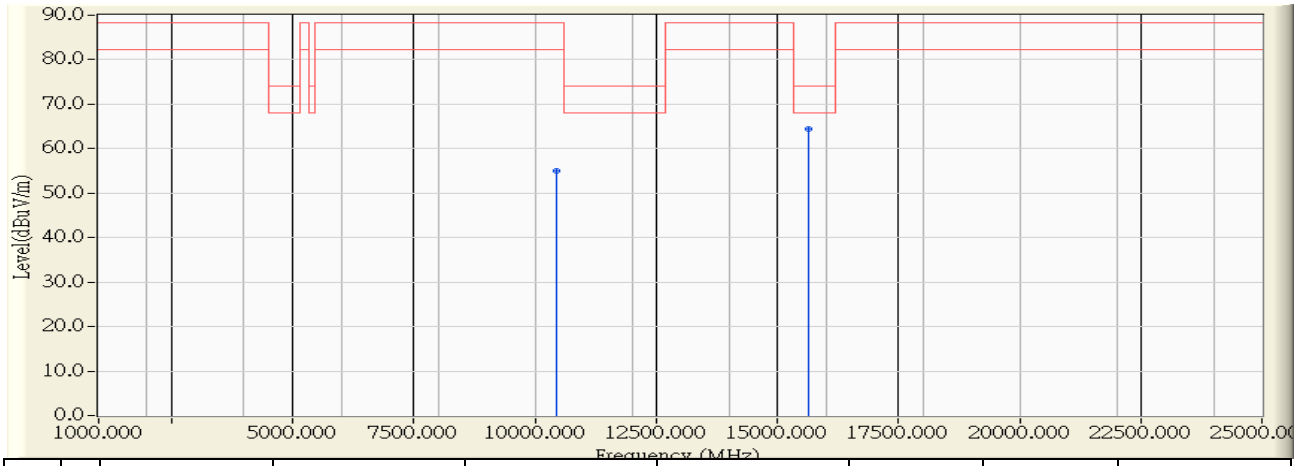


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15539.450	11.109	26.770	37.880	-16.120	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/11 - 17:35**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5220MHz**

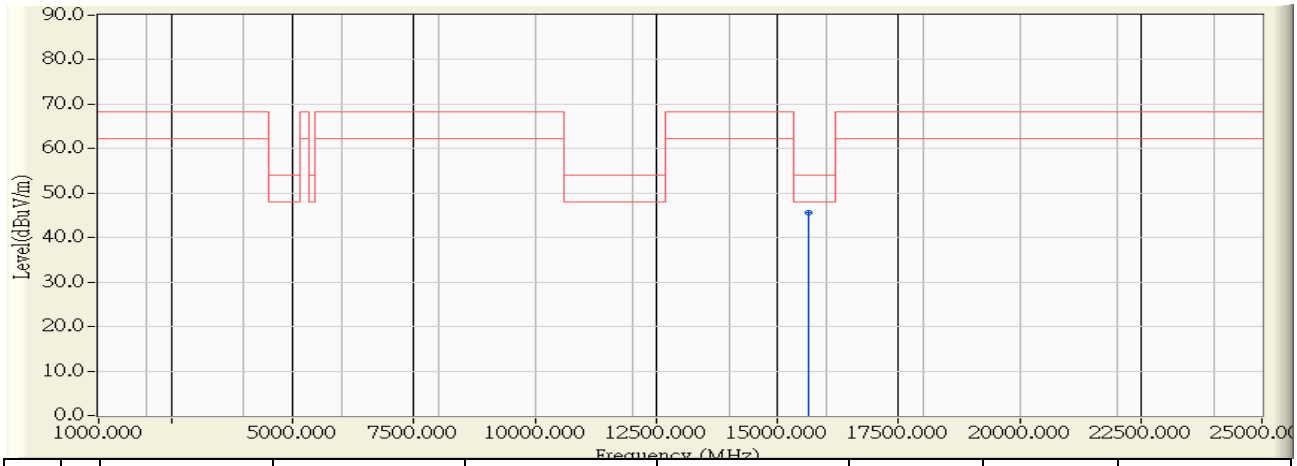


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10441.800	10.189	44.910	55.099	-33.201	88.300	PEAK
2	*	15657.700	10.978	53.470	64.448	-9.552	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/11 - 17:36**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5220MHz**

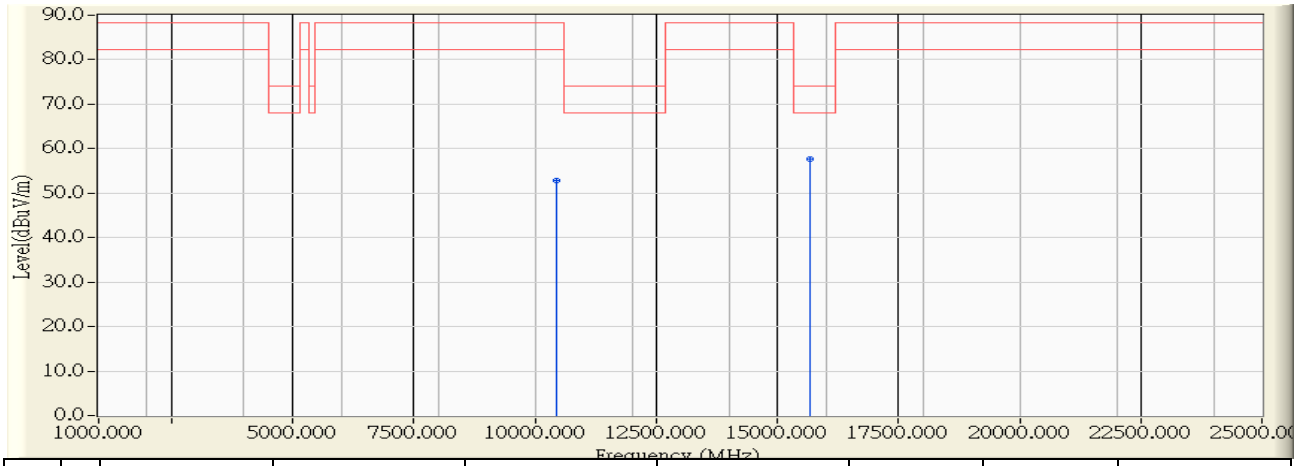


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15658.880	10.977	34.640	45.617	-8.383	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/11 - 17:45**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5220MHz**

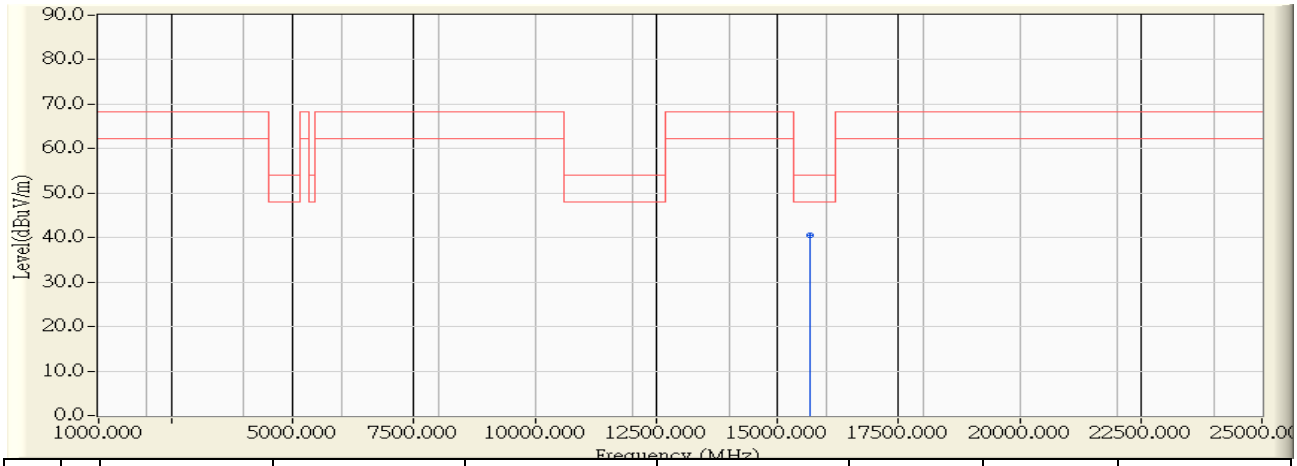


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10442.060	10.188	42.600	52.788	-35.512	88.300	PEAK
2	*	15661.780	10.973	46.770	57.743	-16.257	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/11 - 17:46**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5220MHz**

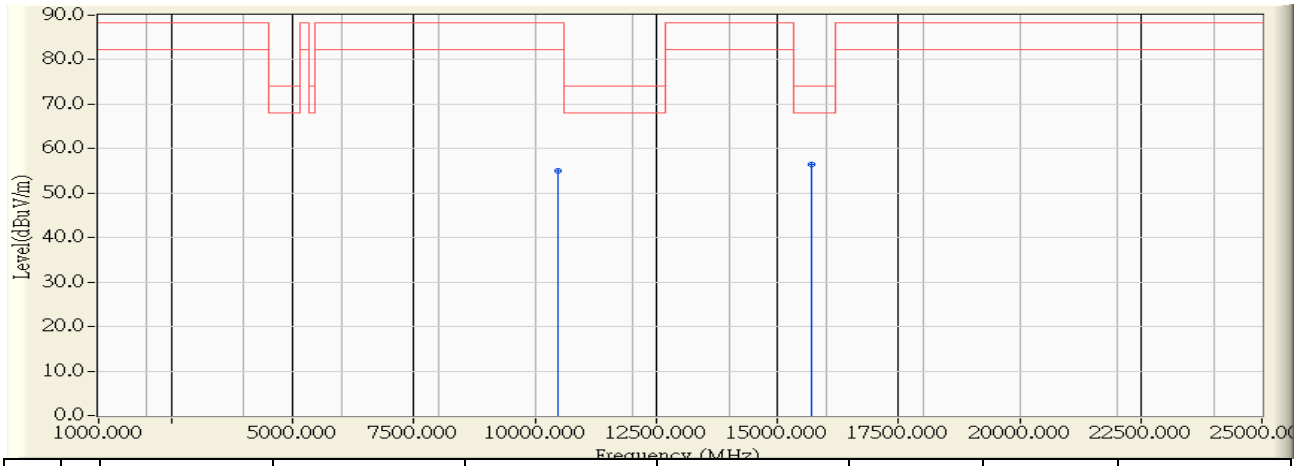


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15663.440	10.972	29.480	40.452	-13.548	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/11 - 20:59**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5240MHz**

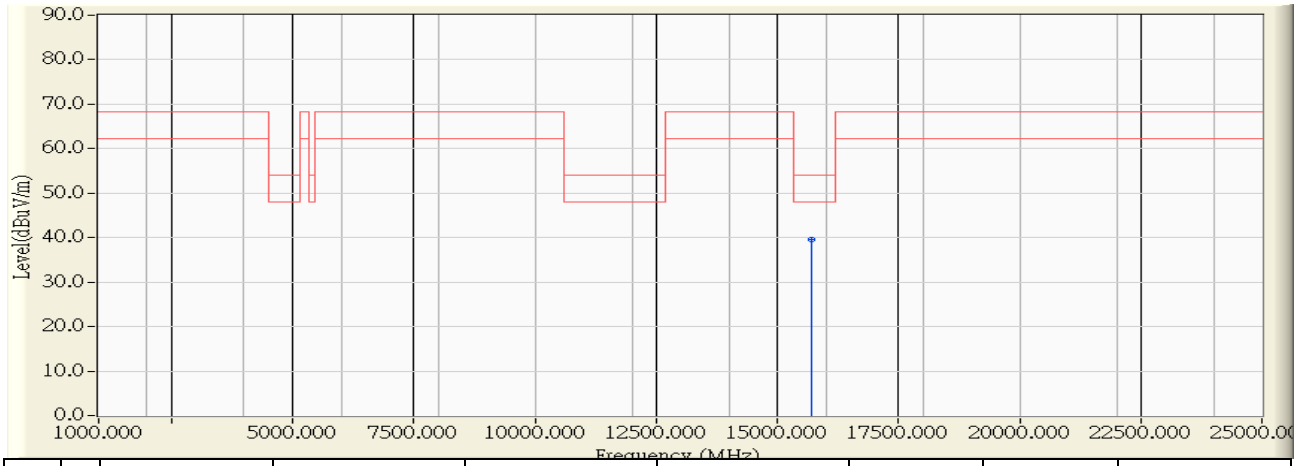


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10481.375	10.071	44.960	55.031	-33.269	88.300	PEAK
2	*	15721.500	10.907	45.480	56.387	-17.613	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/11 - 21:00**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5240MHz**

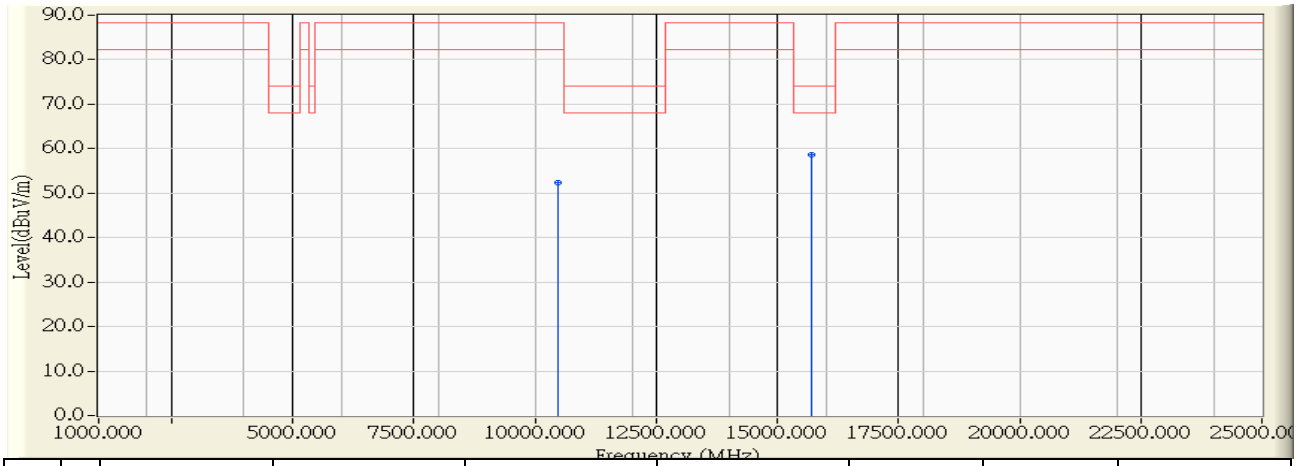


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15722.900	10.905	28.600	39.505	-14.495	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/11 - 21:18**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5240MHz**

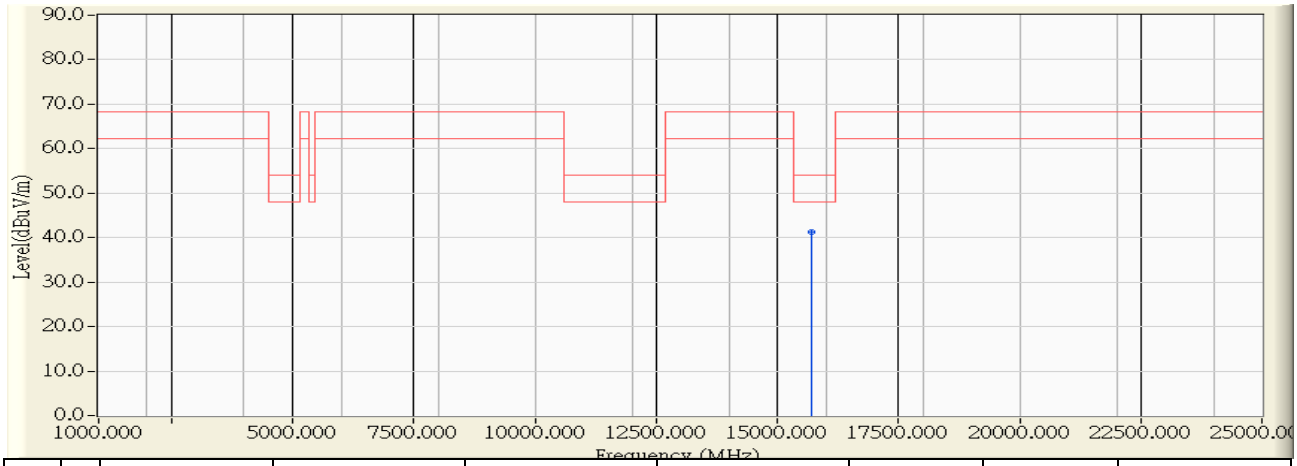


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10481.625	10.070	42.270	52.340	-35.960	88.300	PEAK
2	*	15710.000	10.920	47.800	58.720	-15.280	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/11 - 21:31**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5240MHz**

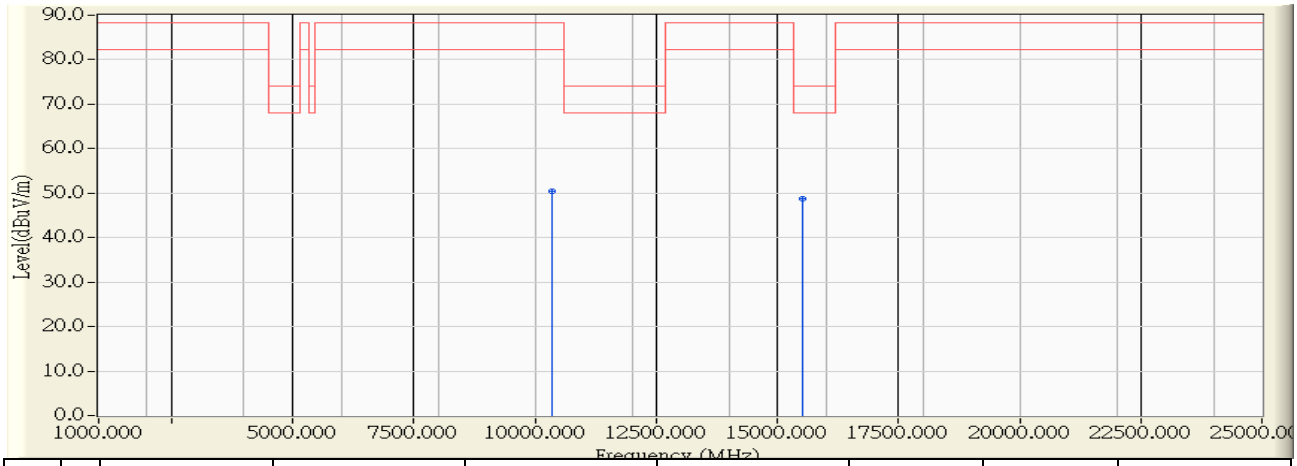


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15720.725	10.907	30.352	41.260	-12.740	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/11 - 22:26**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5180MHz**

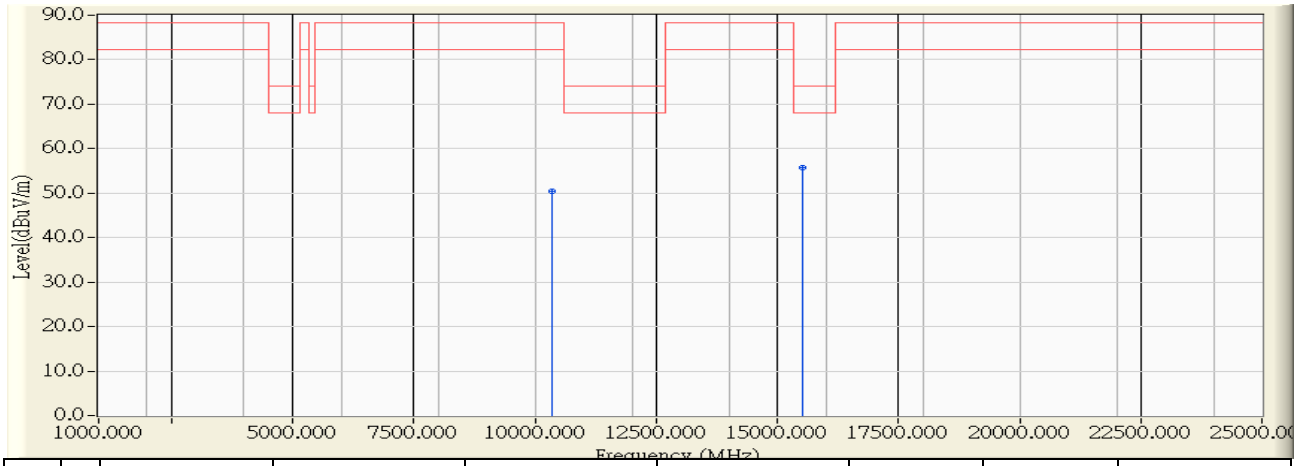


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10353.450	10.452	39.950	50.402	-37.898	88.300	PEAK
2	*	15536.425	11.114	37.720	48.833	-25.167	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/11 - 22:13**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5180MHz**

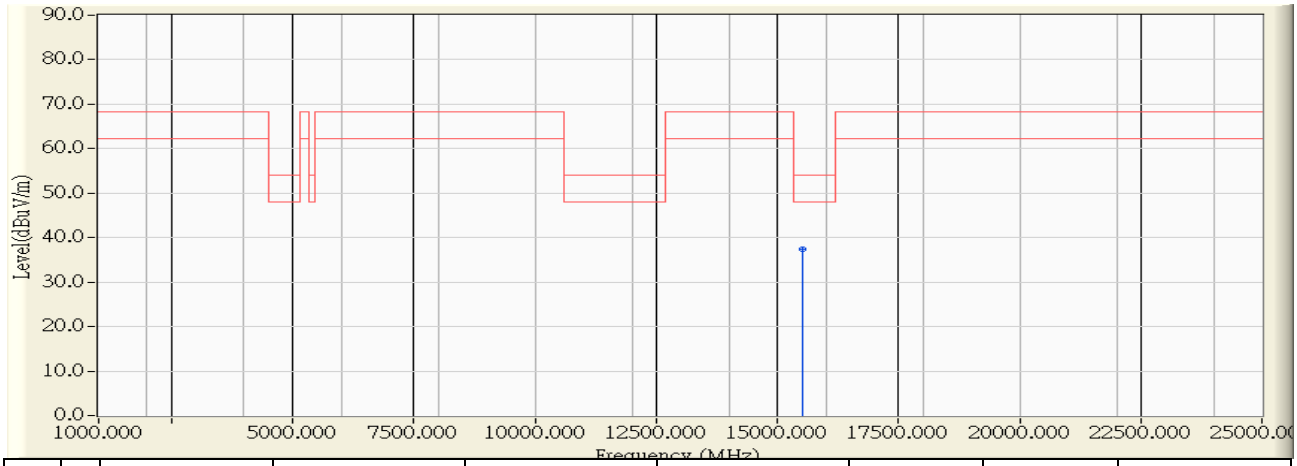


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10357.525	10.440	39.870	50.310	-37.990	88.300	PEAK
2	*	15537.475	11.112	44.680	55.792	-18.208	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/11 - 22:14**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5180MHz**

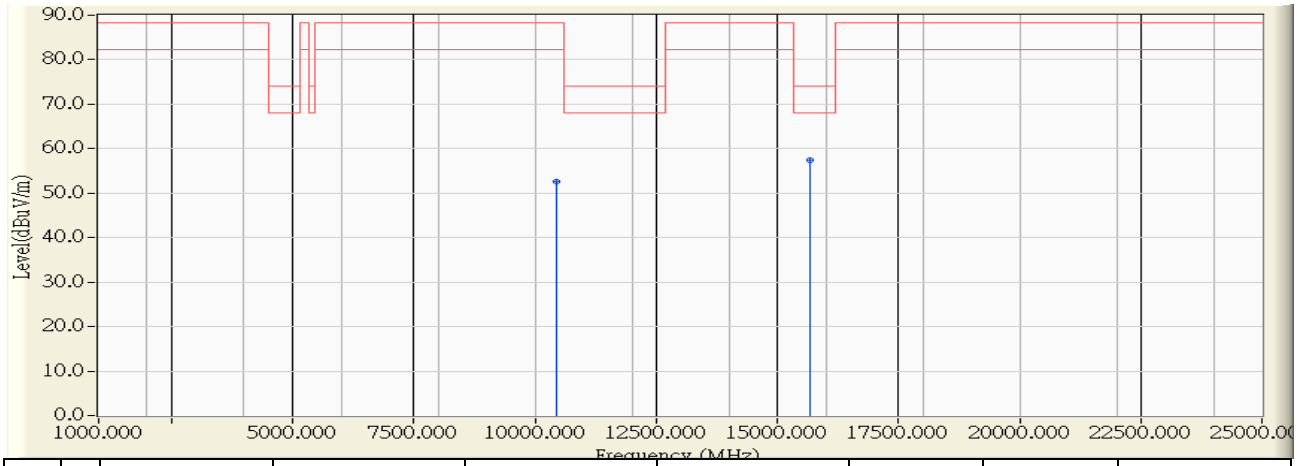


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15537.375	11.112	26.300	37.412	-16.588	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/11 - 22:41**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5220MHz**

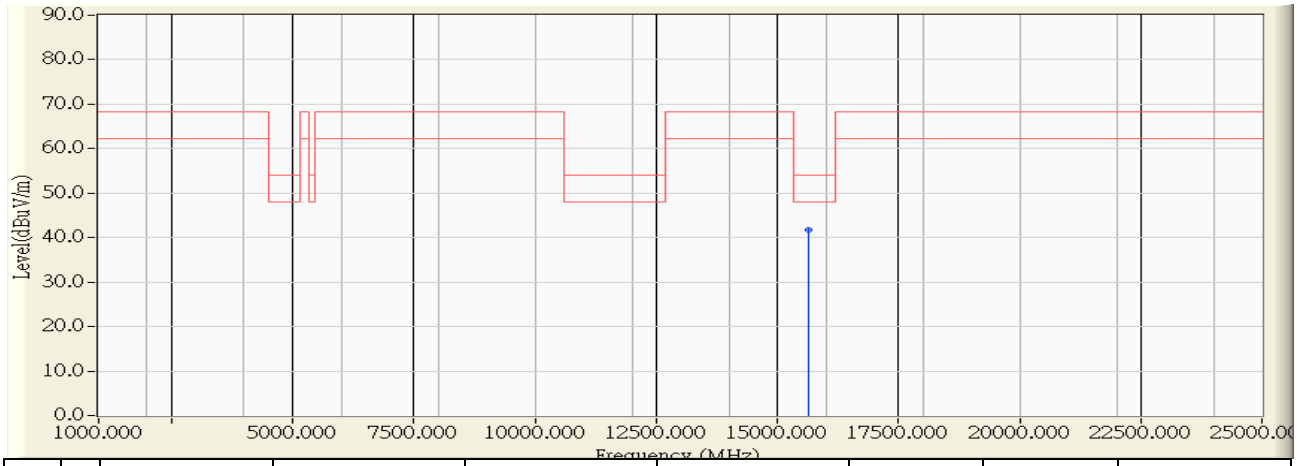


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10443.175	10.185	42.300	52.485	-35.815	88.300	PEAK
2	*	15662.975	10.973	46.340	57.312	-16.688	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/11 - 22:41**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5220MHz**

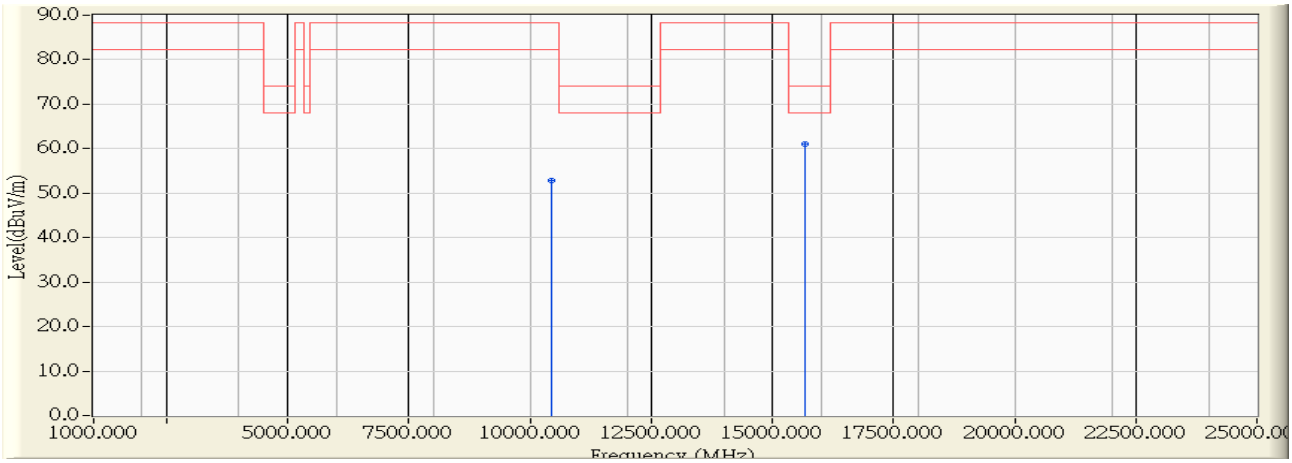


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15657.950	10.978	30.870	41.848	-12.152	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/11 - 23:05**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5220MHz**

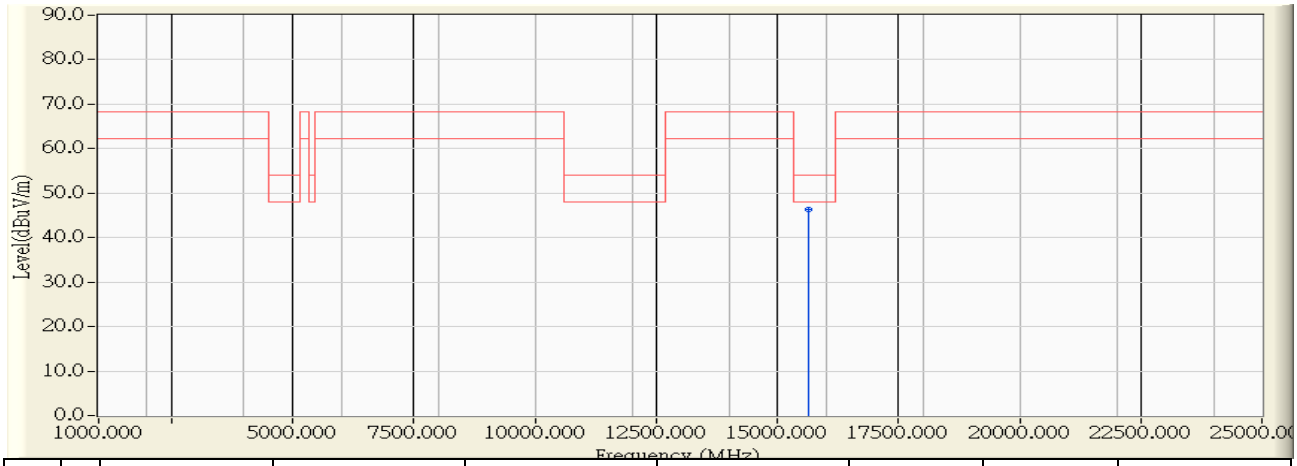


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10443.000	10.185	42.590	52.775	-35.525	88.300	PEAK
2	*	15665.025	10.970	50.030	61.000	-13.000	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/11 - 23:06**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5220MHz**

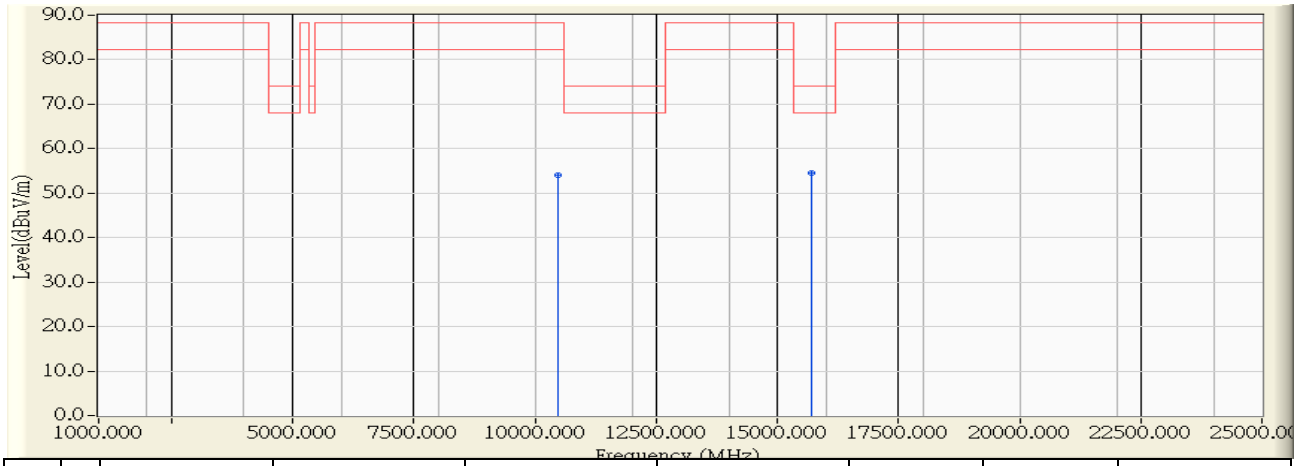


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15659.800	10.975	35.340	46.316	-7.684	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/11 - 23:24**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5240MHz**

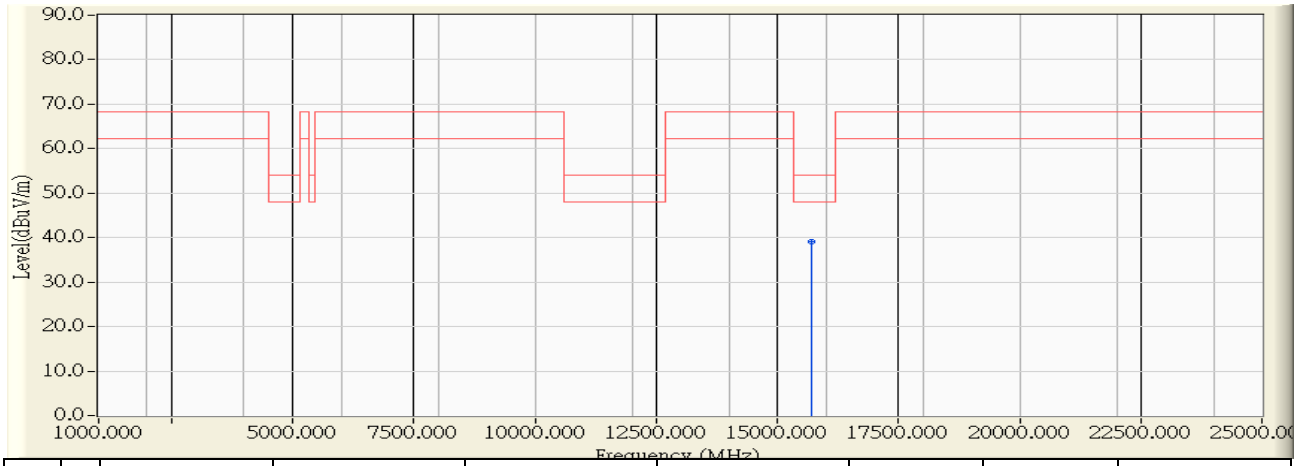


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10482.600	10.068	43.990	54.057	-34.243	88.300	PEAK
2	*	15710.950	10.919	43.680	54.599	-19.401	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/11 - 23:25**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5240MHz**

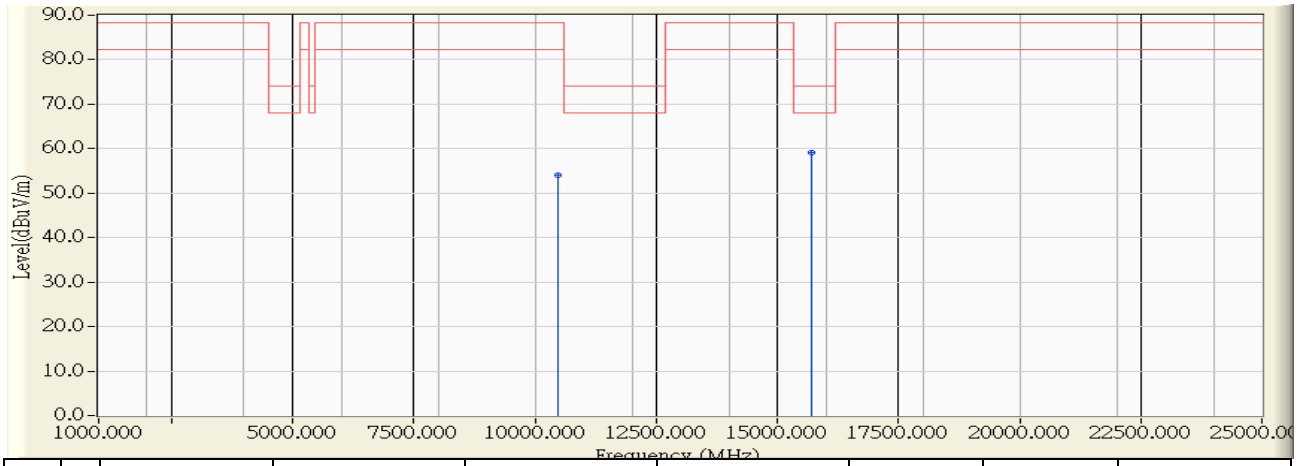


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15717.975	10.911	28.150	39.061	-14.939	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/11 - 23:33**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5240MHz**

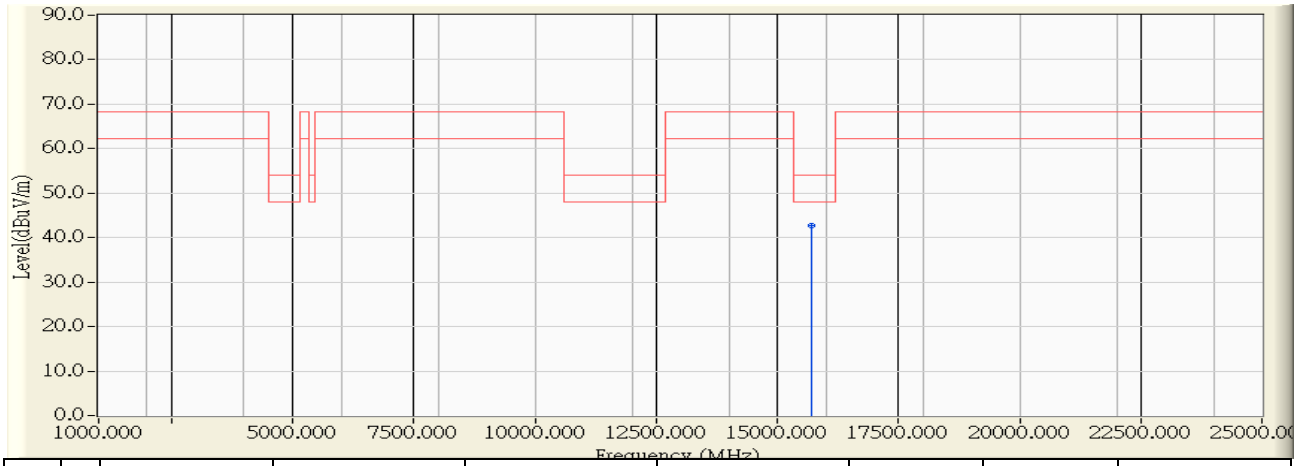


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10477.200	10.083	43.860	53.943	-34.357	88.300	PEAK
2	*	15716.100	10.912	48.220	59.133	-14.867	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/11 - 23:34**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5240MHz**

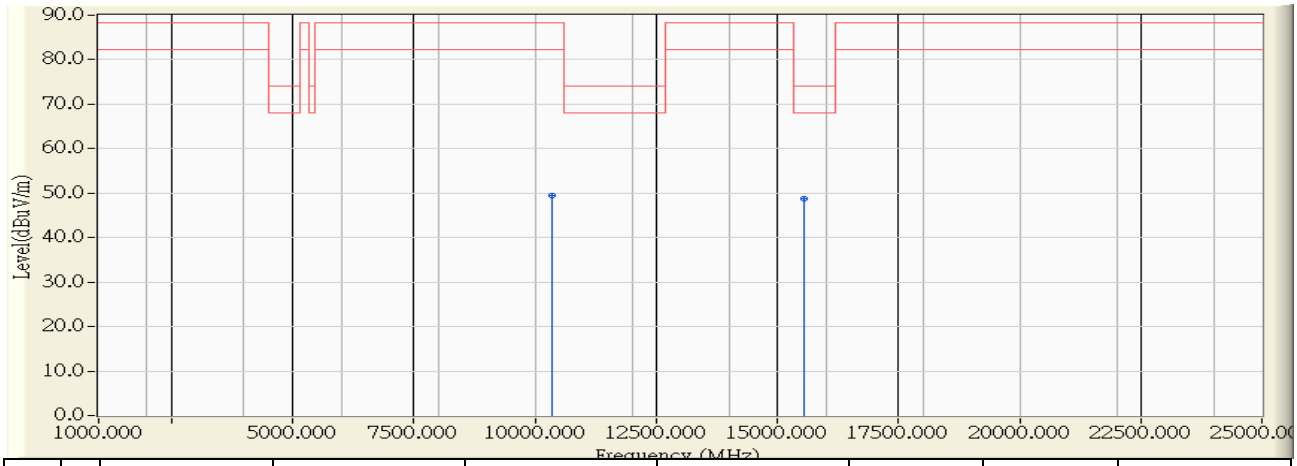


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15716.100	10.912	31.880	42.793	-11.207	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/11 - 23:43**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(40MHz)_5190MHz**

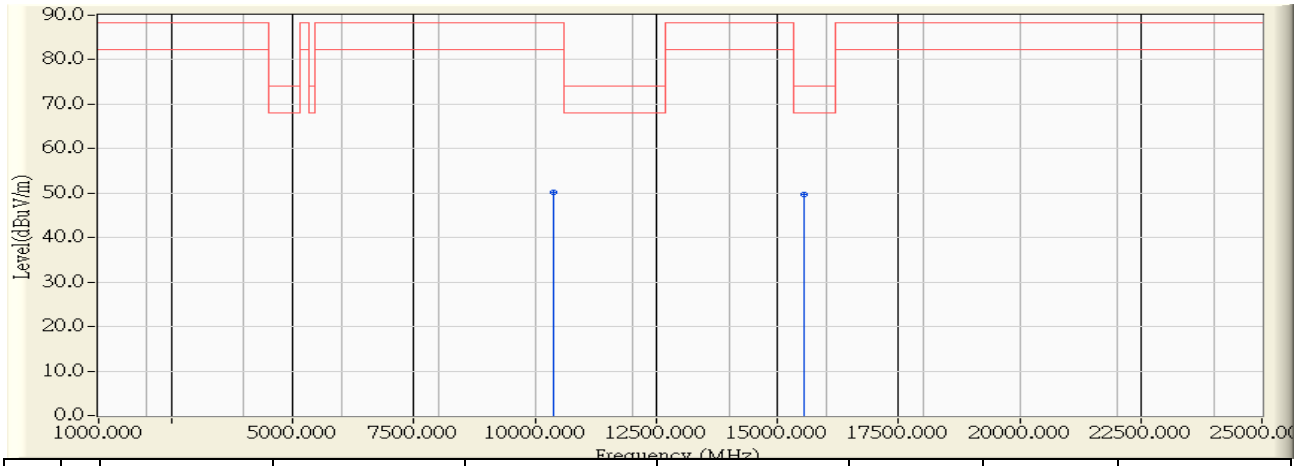


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10366.400	10.413	38.930	49.343	-38.957	88.300	PEAK
2	*	15563.650	11.082	37.660	48.743	-25.257	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/11 - 23:55**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(40MHz)_5190MHz**

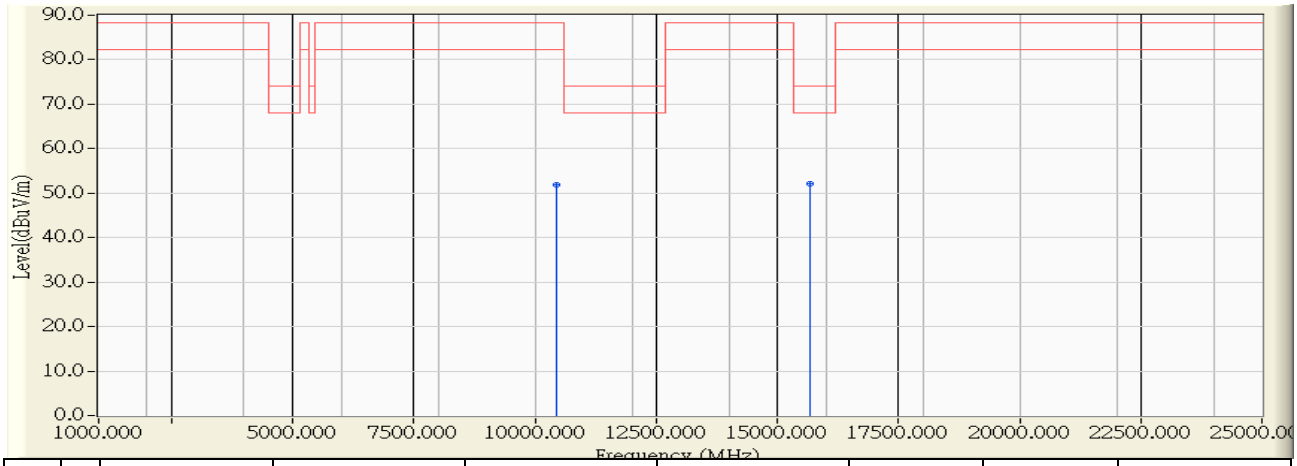


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10390.525	10.341	39.870	50.211	-38.089	88.300	PEAK
2	*	15561.300	11.086	38.700	49.785	-24.215	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/12 - 00:04**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(40MHz)_5230MHz**

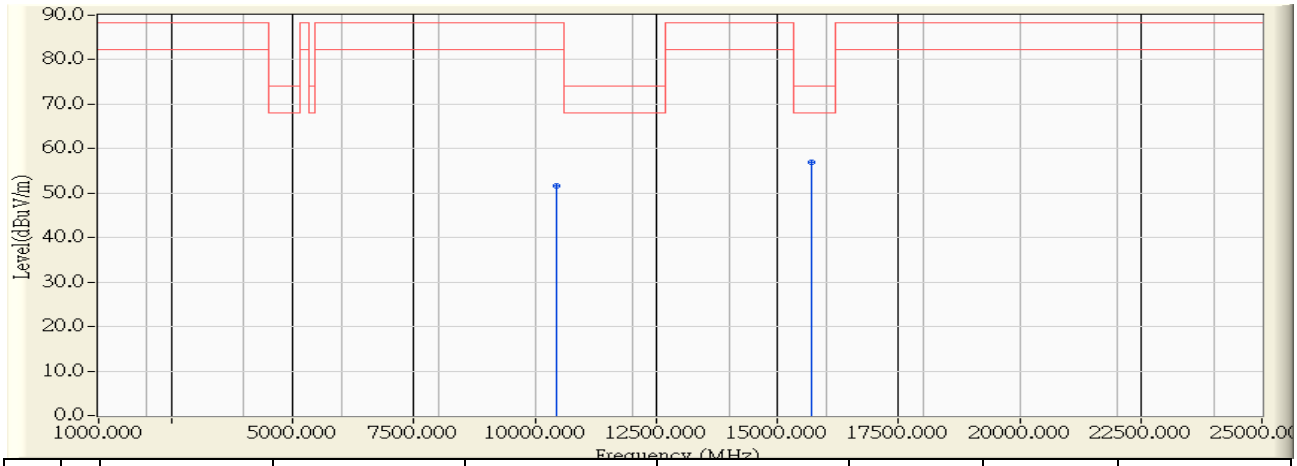


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10461.425	10.130	41.670	51.800	-36.500	88.300	PEAK
2	*	15680.500	10.953	41.150	52.102	-21.898	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/12 - 00:09**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(40MHz)_5230MHz**

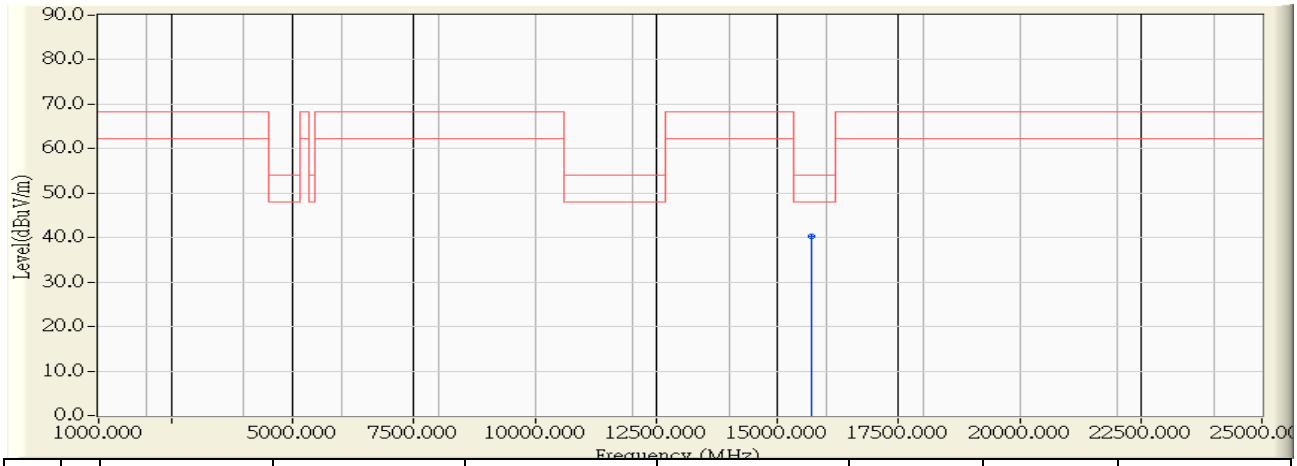


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10458.850	10.137	41.540	51.678	-36.622	88.300	PEAK
2	*	15692.850	10.938	45.990	56.929	-17.071	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2014/06/12 - 00:09**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(40MHz)_5230MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	15693.200	10.938	29.470	40.408	-13.592	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, 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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

7. Band Edge

7.1. Test Equipment

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

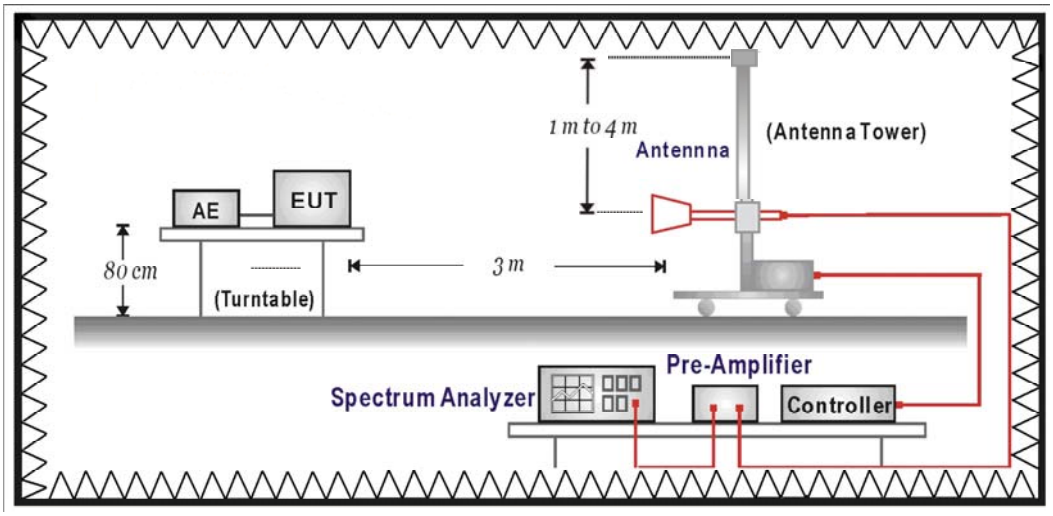
Band Edge / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120	D743	2015/02/12
Spectrum Analyzer	Agilent	E4440A	MY46187335	2015/01/12
k Type Cable	Huber Suhner	Sucoflex 102	25623/2	2015/02/10

Note: 1. 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:

4. RF Voltage (dBuV) = 20 log RF Voltage (uV)
5. In the Above Table, the tighter limit applies at the band edges.
6. 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
5725~5825	-27 (Note1)	68.3
	-17 (Note2)	78.3

Remark:

4. For frequencies more than 10 MHz above or below the band edges.
5. For frequency range from the band edges to 10 MHz above or below the band edges.
6. 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 0.8 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 C63.4: 2009on radiated measurement.

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

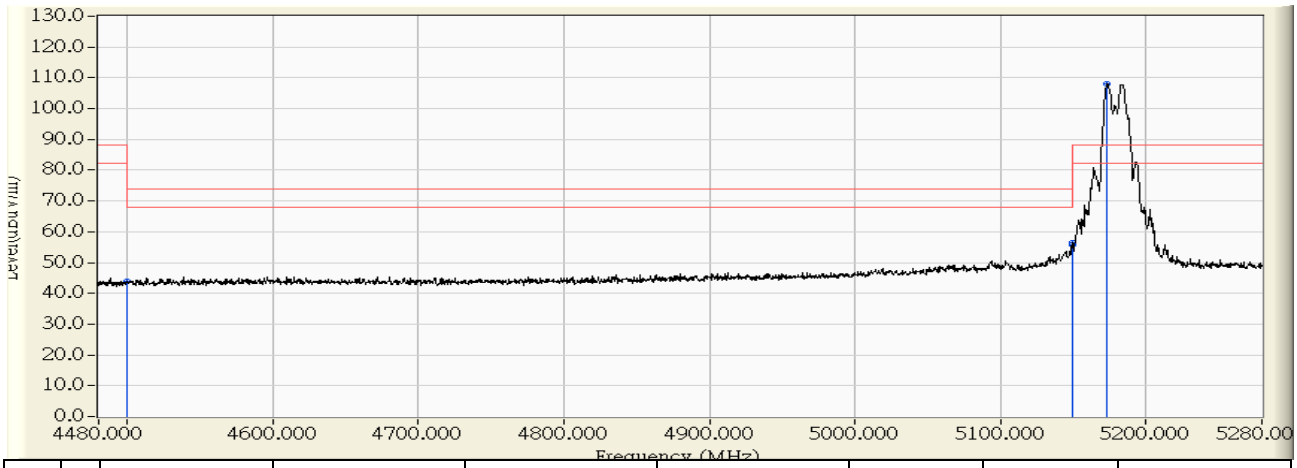
7.5. Uncertainty

The measurement uncertainty is defined as ± 3.65dB

7.6. Test Result

Radiated is defined as

Site : CB1	**Time : 2014/06/11 - 15:47**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5180MHz**

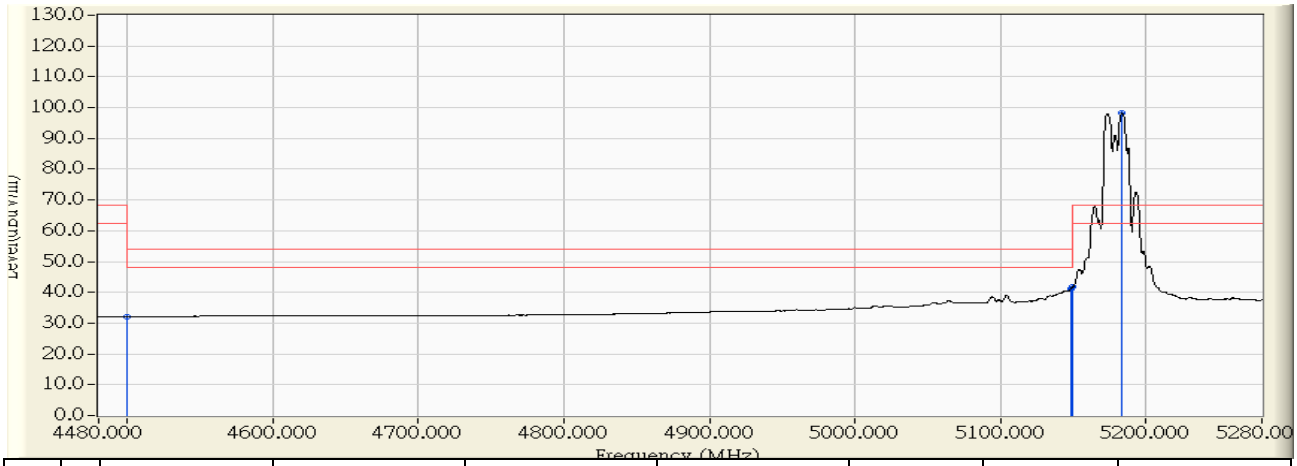


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	45.296	43.891	-30.109	74.000	PEAK
2		5149.600	0.972	55.652	56.624	-17.376	74.000	PEAK
3		5150.000	0.975	54.761	55.736	-18.264	74.000	PEAK
4	*	5173.600	1.158	106.911	108.069	19.769	88.300	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 : 2014/06/11 - 15:49**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5180MHz**

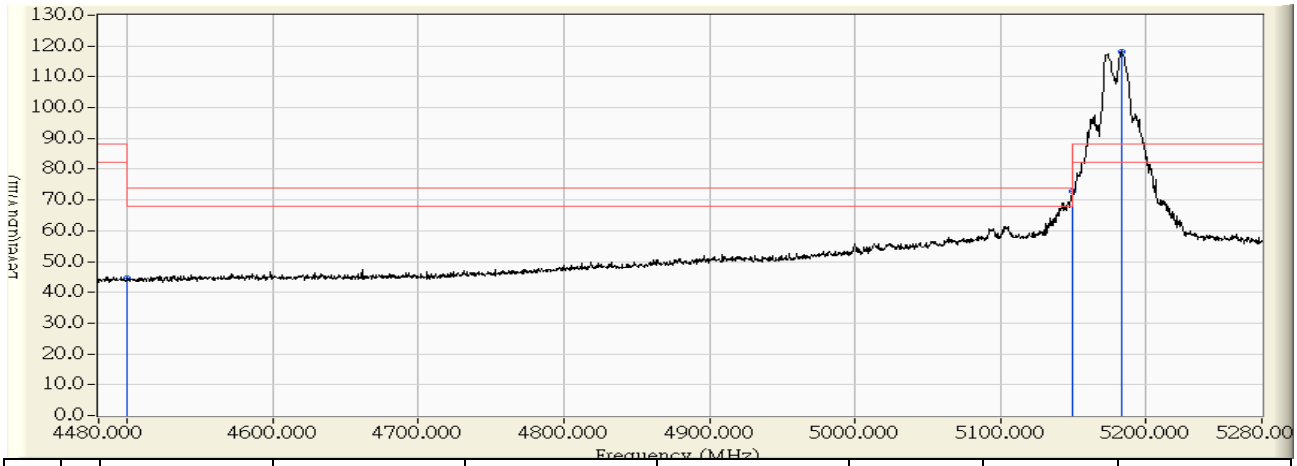


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	33.397	31.992	-22.008	54.000	AVERAGE
2		5148.400	0.963	40.177	41.140	-12.860	54.000	AVERAGE
3		5150.000	0.975	40.735	41.710	-12.290	54.000	AVERAGE
4	*	5184.000	1.239	96.953	98.192	29.892	68.300	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 : 2014/06/11 - 15:41**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5180MHz**

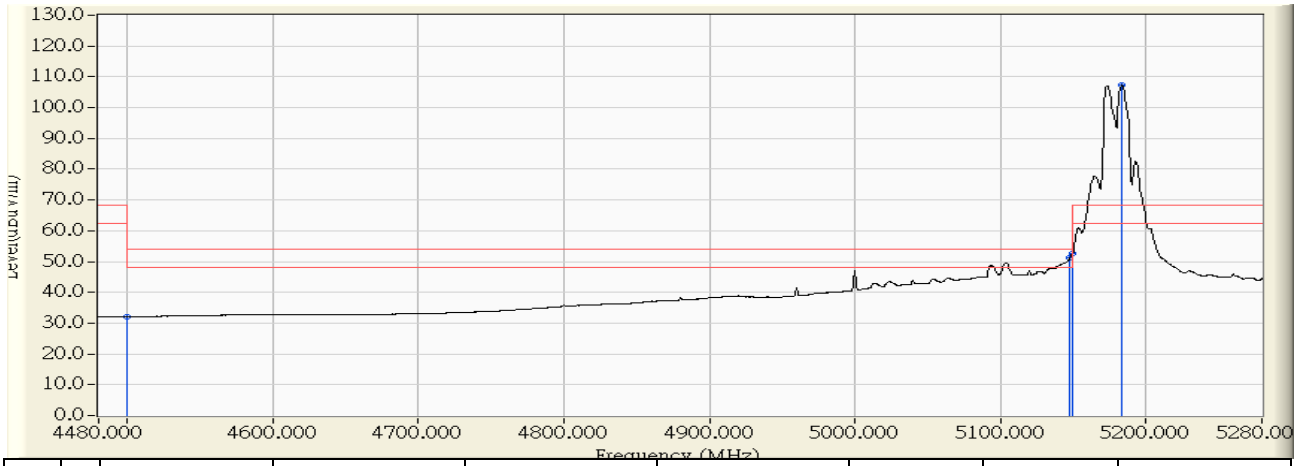


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	45.948	44.543	-29.457	74.000	PEAK
2		5149.600	0.972	71.829	72.801	-1.199	74.000	PEAK
3		5150.000	0.975	72.019	72.994	-1.006	74.000	PEAK
4	*	5183.600	1.236	116.774	118.010	29.710	88.300	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 : 2014/06/11 - 15:38**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5180MHz**

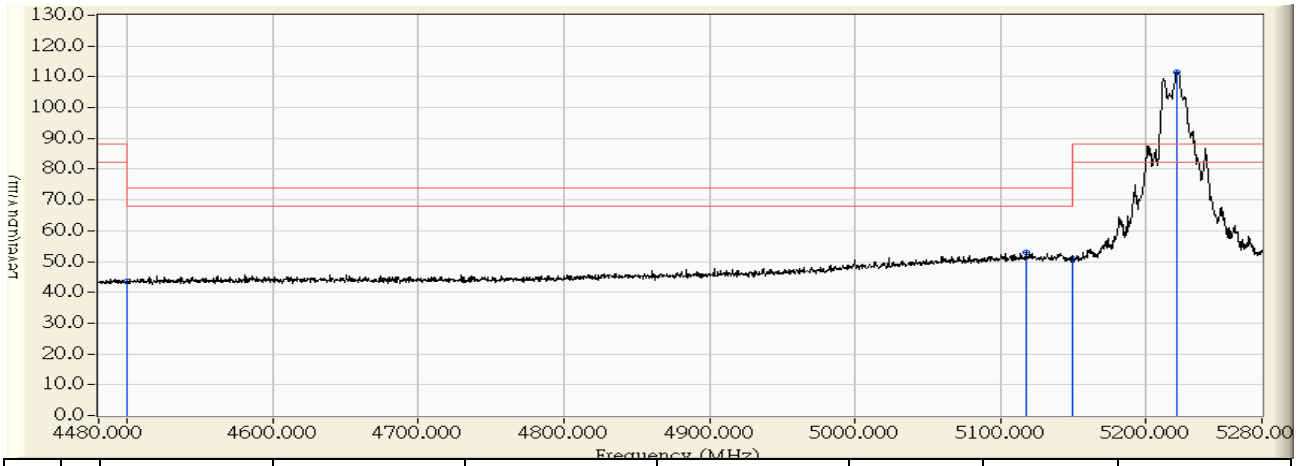


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	33.529	32.124	-21.876	54.000	AVERAGE
2		5148.000	0.959	50.303	51.263	-2.737	54.000	AVERAGE
3		5150.000	0.975	51.672	52.647	-1.353	54.000	AVERAGE
4	*	5183.600	1.236	106.068	107.304	39.004	68.300	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 : 2014/06/11 - 16:06**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5220MHz**

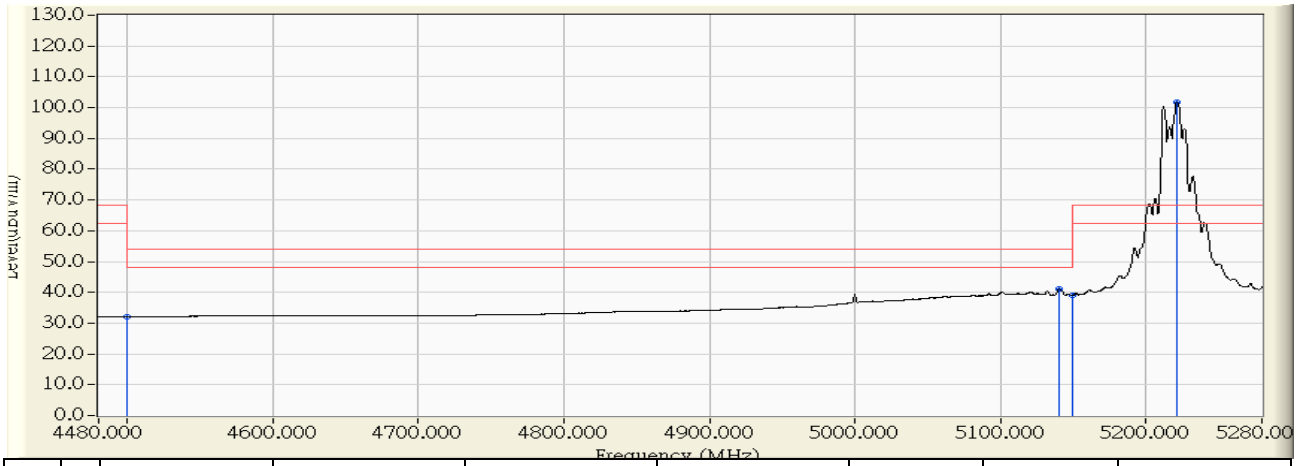


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	44.837	43.432	-30.568	74.000	PEAK
2		5117.600	0.723	52.256	52.980	-21.020	74.000	PEAK
3		5150.000	0.975	50.078	51.053	-22.947	74.000	PEAK
4	*	5221.200	1.528	110.017	111.545	23.245	88.300	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 : 2014/06/11 - 16:08**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5220MHz**

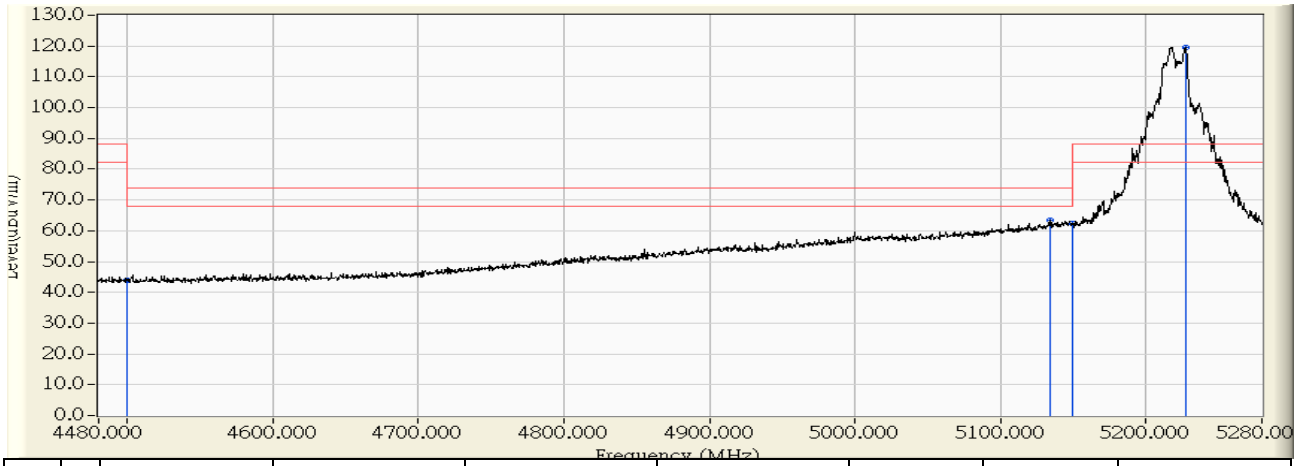


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	33.403	31.998	-22.002	54.000	AVERAGE
2		5140.400	0.901	40.317	41.218	-12.782	54.000	AVERAGE
3		5150.000	0.975	38.103	39.078	-14.922	54.000	AVERAGE
4	*	5222.000	1.534	100.361	101.895	33.595	68.300	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 : 2014/06/11 - 15:59**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5220MHz**

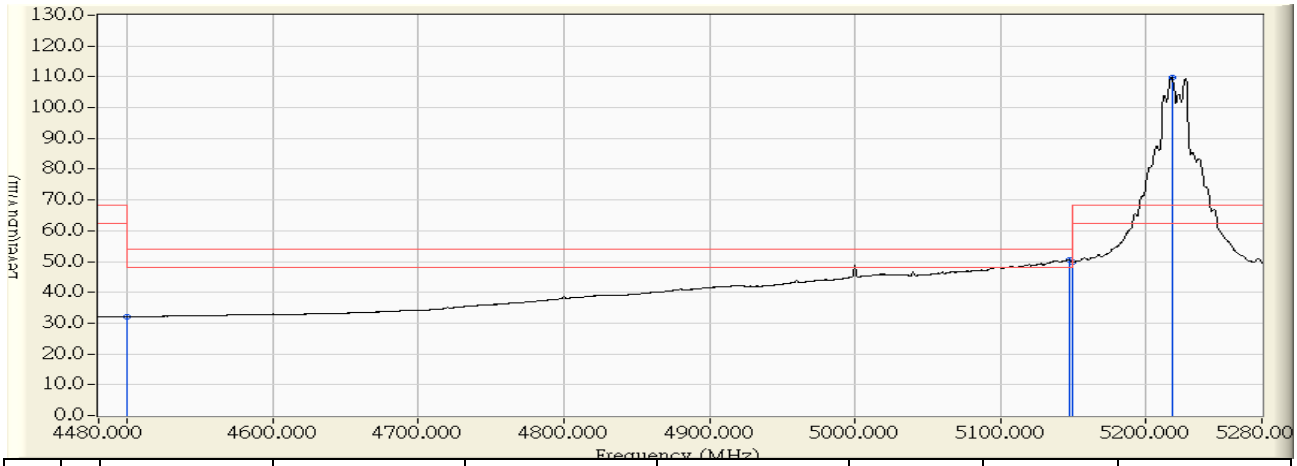


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	45.420	44.015	-29.985	74.000	PEAK
2		5134.000	0.852	62.538	63.389	-10.611	74.000	PEAK
3		5150.000	0.975	61.585	62.560	-11.440	74.000	PEAK
4	*	5227.200	1.574	117.976	119.550	31.250	88.300	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 : 2014/06/11 - 15:58**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5220MHz**

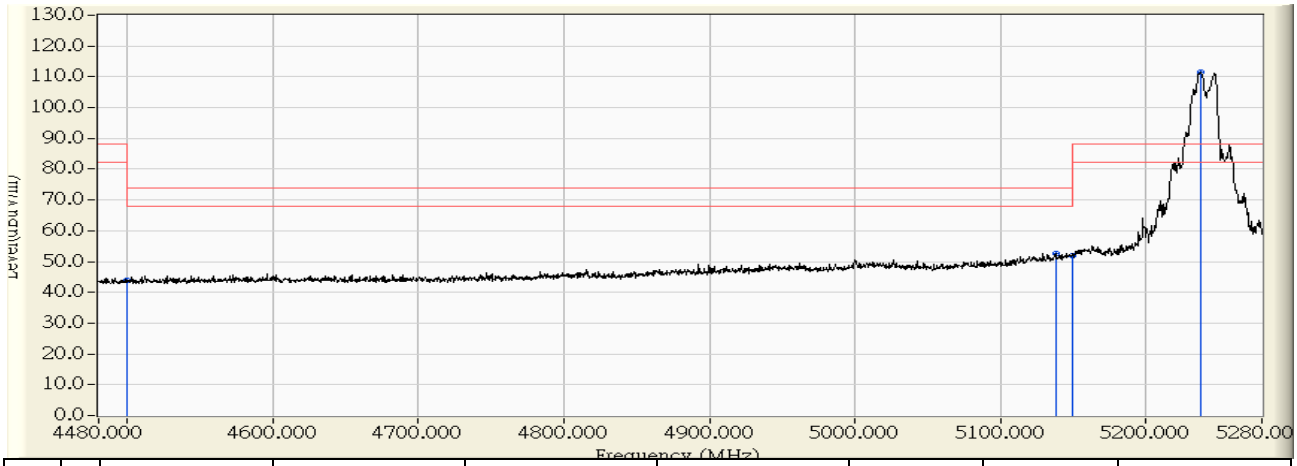


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	33.474	32.069	-21.931	54.000	AVERAGE
2		5147.200	0.954	49.717	50.671	-3.329	54.000	AVERAGE
3		5150.000	0.975	48.717	49.692	-4.308	54.000	AVERAGE
4	*	5218.000	1.502	108.166	109.669	41.369	68.300	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 : 2014/06/11 - 16:25**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5240MHz**

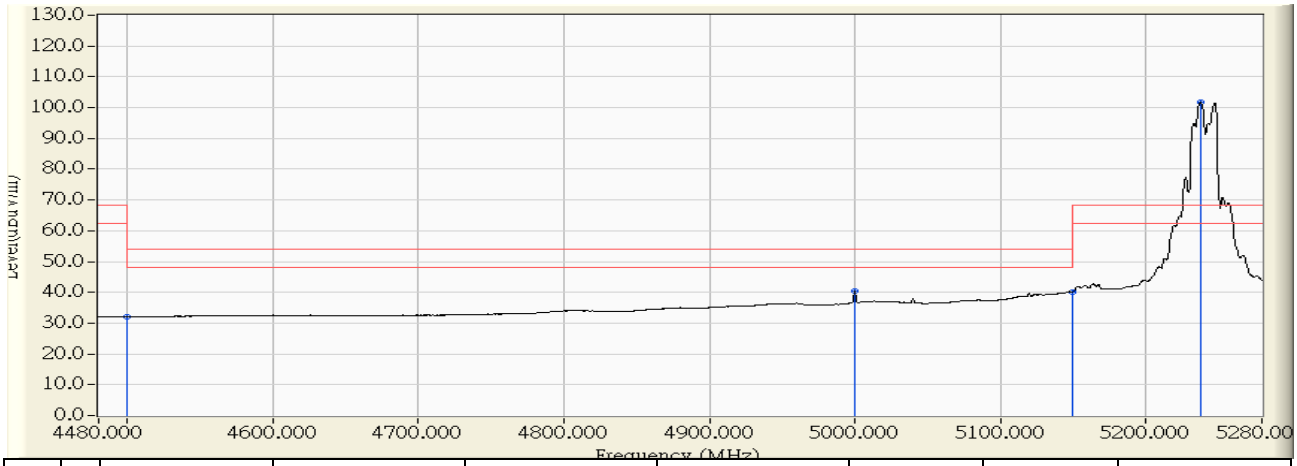


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	45.300	43.895	-30.105	74.000	PEAK
2		5138.000	0.882	51.649	52.531	-21.469	74.000	PEAK
3		5150.000	0.975	50.800	51.775	-22.225	74.000	PEAK
4	*	5237.600	1.654	109.920	111.575	23.275	88.300	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 : 2014/06/11 - 16:27**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5240MHz**

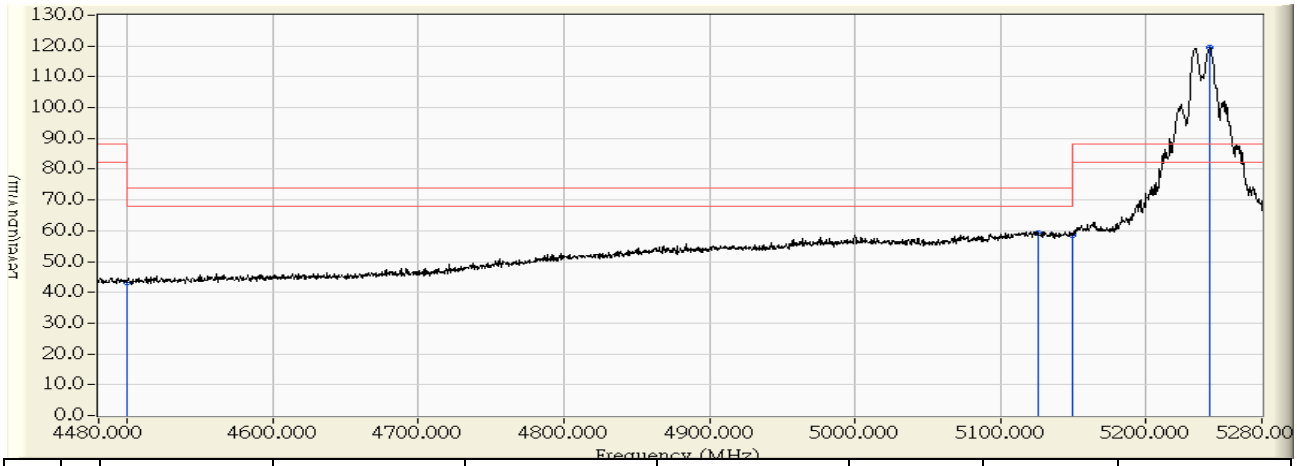


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	33.445	32.040	-21.960	54.000	AVERAGE
2		5000.000	-0.168	40.624	40.455	-13.545	54.000	AVERAGE
3		5150.000	0.975	39.257	40.232	-13.768	54.000	AVERAGE
4	*	5238.000	1.657	100.010	101.668	33.368	68.300	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 : 2014/06/11 - 16:20**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5240MHz**

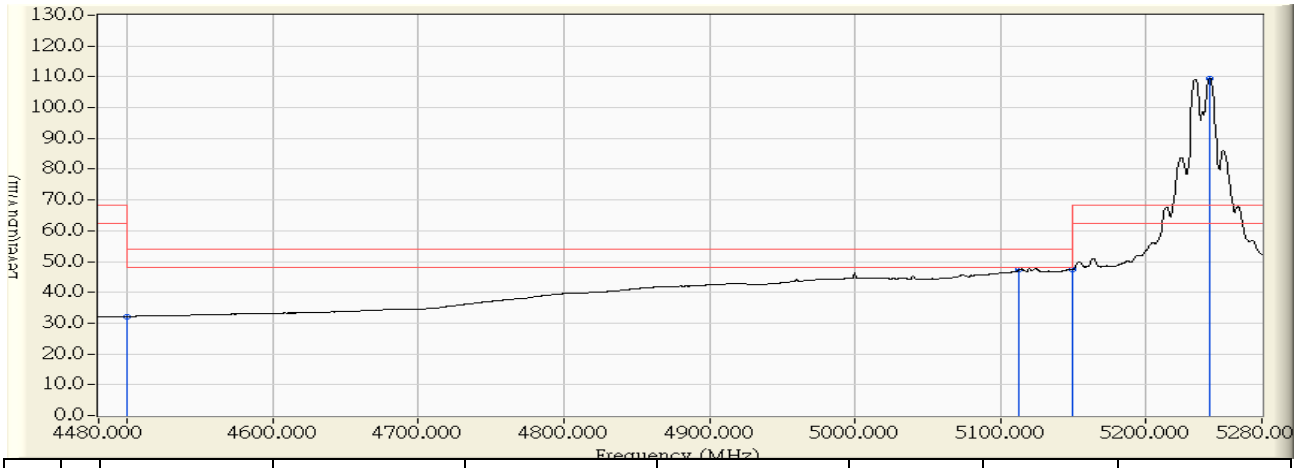


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	44.738	43.333	-30.667	74.000	PEAK
2		5126.000	0.789	58.537	59.326	-14.674	74.000	PEAK
3		5150.000	0.975	57.677	58.652	-15.348	74.000	PEAK
4	*	5244.000	1.704	117.909	119.613	31.313	88.300	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 : 2014/06/11 - 16:19**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11a_5240MHz**

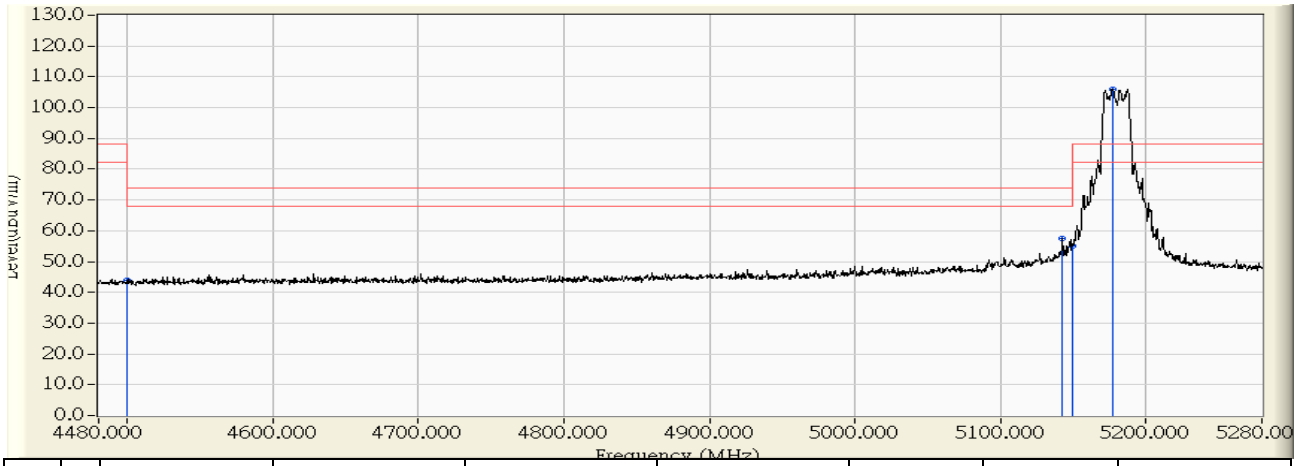


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	33.584	32.179	-21.821	54.000	AVERAGE
2		5113.200	0.690	46.745	47.435	-6.565	54.000	AVERAGE
3		5150.000	0.975	46.294	47.269	-6.731	54.000	AVERAGE
4	*	5244.400	1.708	107.825	109.532	41.232	68.300	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 : 2014/06/11 - 16:43**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5180MHz**

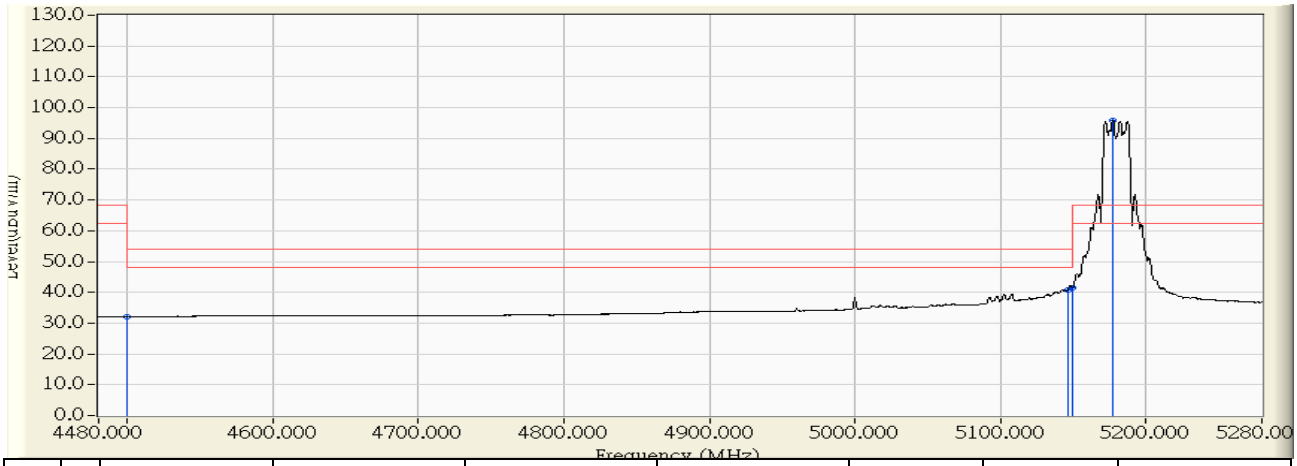


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	45.218	43.813	-30.187	74.000	PEAK
2		5142.800	0.919	56.432	57.352	-16.648	74.000	PEAK
3		5150.000	0.975	53.985	54.960	-19.040	74.000	PEAK
4	*	5177.600	1.189	104.821	106.010	17.710	88.300	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 : 2014/06/11 - 16:45**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5180MHz**

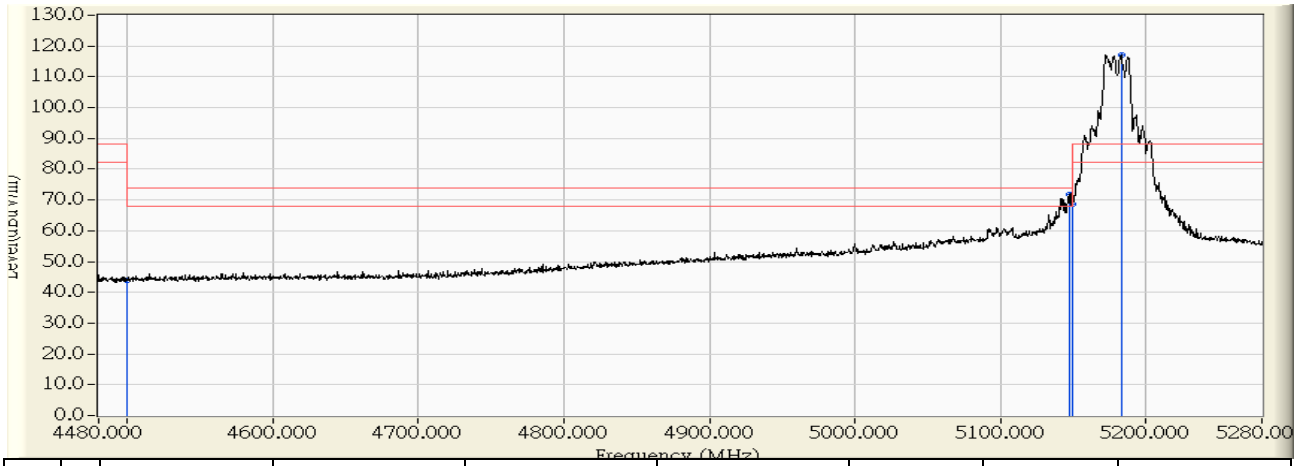


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	33.465	32.060	-21.940	54.000	AVERAGE
2		5146.400	0.947	39.926	40.873	-13.127	54.000	AVERAGE
3		5150.000	0.975	40.632	41.607	-12.393	54.000	AVERAGE
4	*	5177.600	1.189	94.551	95.740	27.440	68.300	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 : 2014/06/11 - 16:38**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5180MHz**

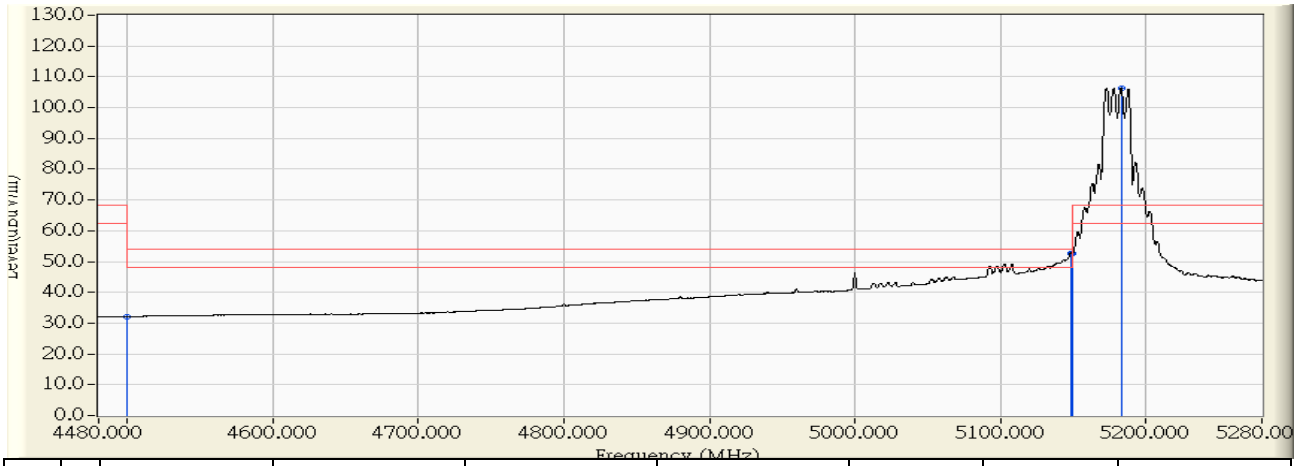


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	45.458	44.053	-29.947	74.000	PEAK
2		5147.200	0.954	70.852	71.806	-2.194	74.000	PEAK
3		5150.000	0.975	67.662	68.637	-5.363	74.000	PEAK
4	*	5183.200	1.233	115.806	117.039	28.739	88.300	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 : 2014/06/11 - 16:34**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5180MHz**

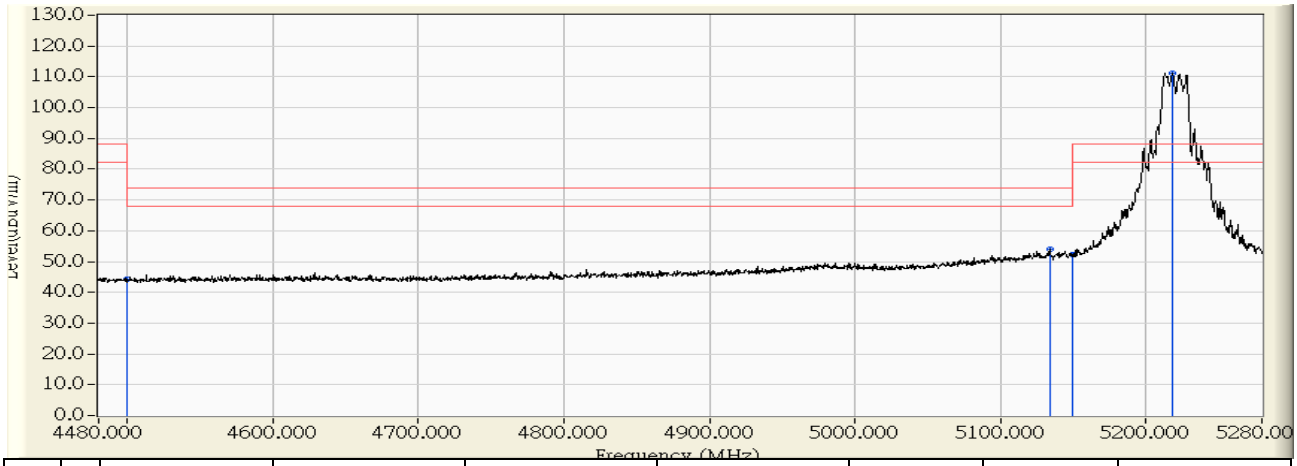


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	33.597	32.192	-21.808	54.000	AVERAGE
2		5148.400	0.963	51.830	52.793	-1.207	54.000	AVERAGE
3		5150.000	0.975	51.685	52.660	-1.340	54.000	AVERAGE
4	*	5183.200	1.233	105.189	106.422	38.122	68.300	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 : 2014/06/11 - 17:06**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5220MHz**

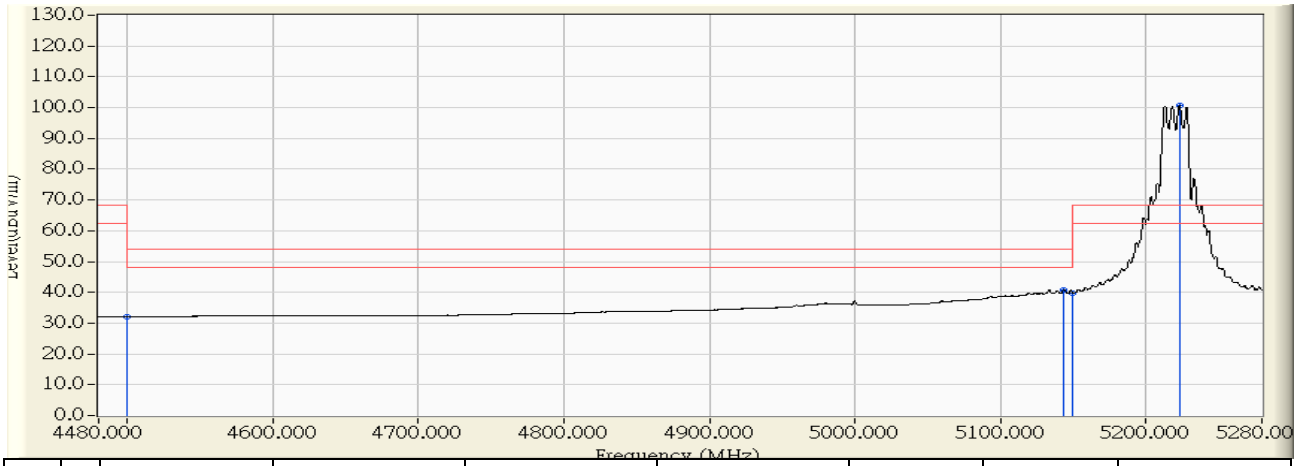


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	45.729	44.324	-29.676	74.000	PEAK
2		5134.000	0.852	53.249	54.100	-19.900	74.000	PEAK
3		5150.000	0.975	51.161	52.136	-21.864	74.000	PEAK
4	*	5218.400	1.505	109.791	111.297	22.997	88.300	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 : 2014/06/11 - 17:08**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5220MHz**

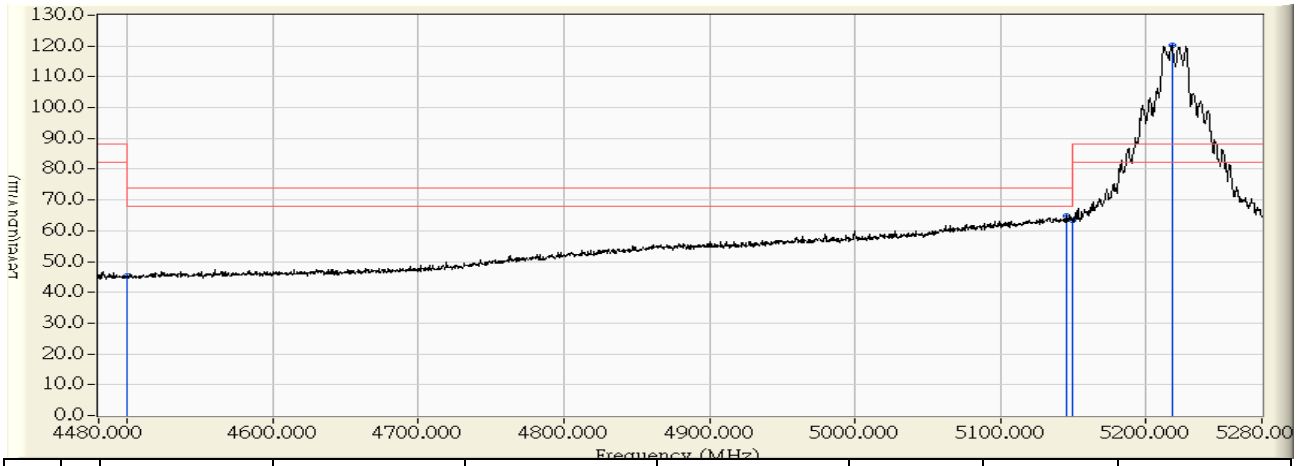


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	33.422	32.017	-21.983	54.000	AVERAGE
2		5143.200	0.923	39.715	40.638	-13.362	54.000	AVERAGE
3		5150.000	0.975	38.855	39.830	-14.170	54.000	AVERAGE
4	*	5223.200	1.543	99.133	100.676	32.376	68.300	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 : 2014/06/11 - 17:01**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5220MHz**

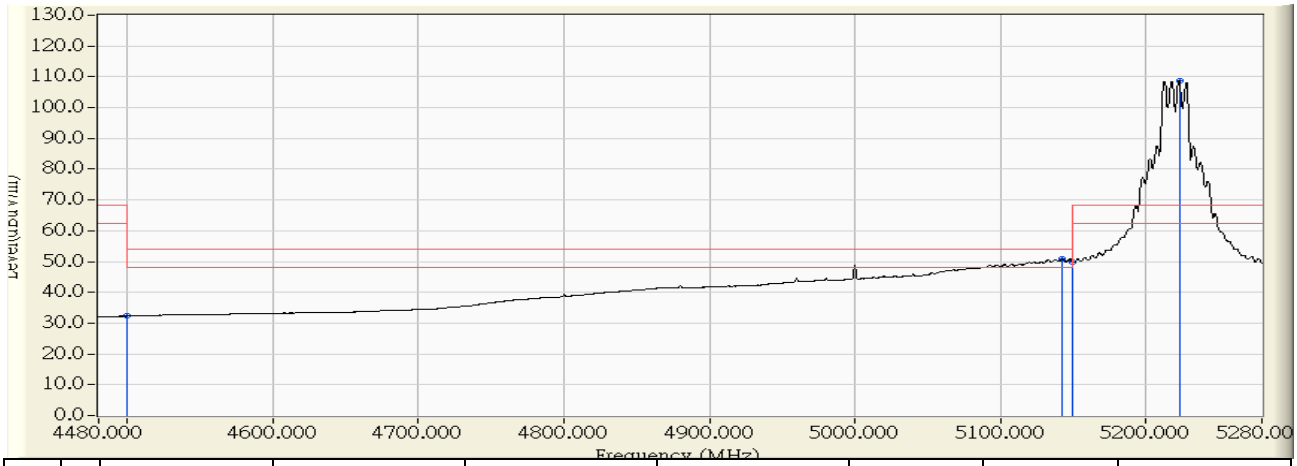


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	46.624	45.219	-28.781	74.000	PEAK
2		5146.000	0.944	63.795	64.739	-9.261	74.000	PEAK
3		5150.000	0.975	62.618	63.593	-10.407	74.000	PEAK
4	*	5218.000	1.502	118.600	120.103	31.803	88.300	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 : 2014/06/11 - 16:58**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5220MHz**

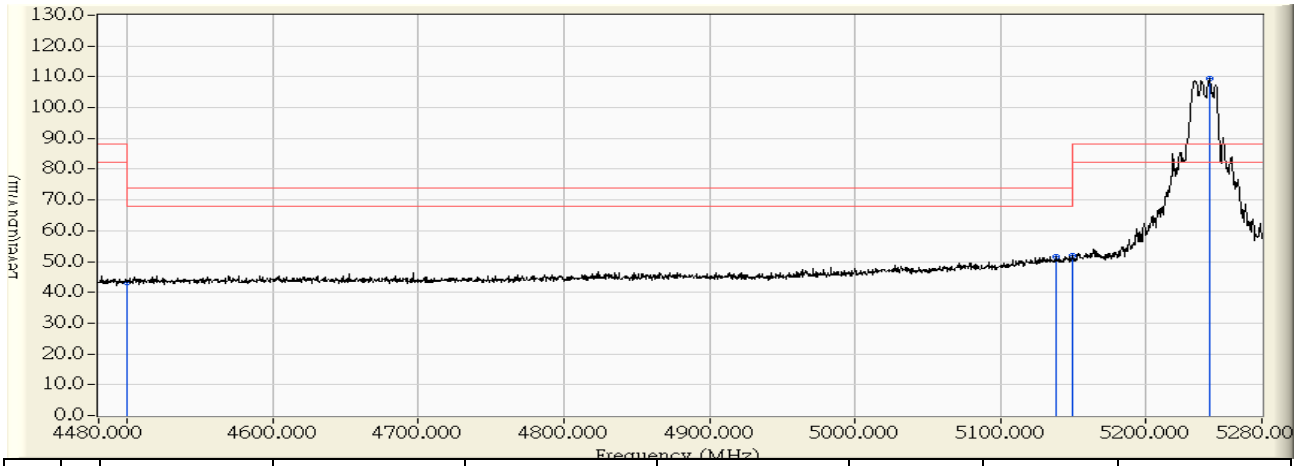


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	33.657	32.252	-21.748	54.000	AVERAGE
2		5142.400	0.917	49.863	50.779	-3.221	54.000	AVERAGE
3		5150.000	0.975	48.777	49.752	-4.248	54.000	AVERAGE
4	*	5223.200	1.543	107.053	108.596	40.296	68.300	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 : 2014/06/11 - 17:18**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5240MHz**

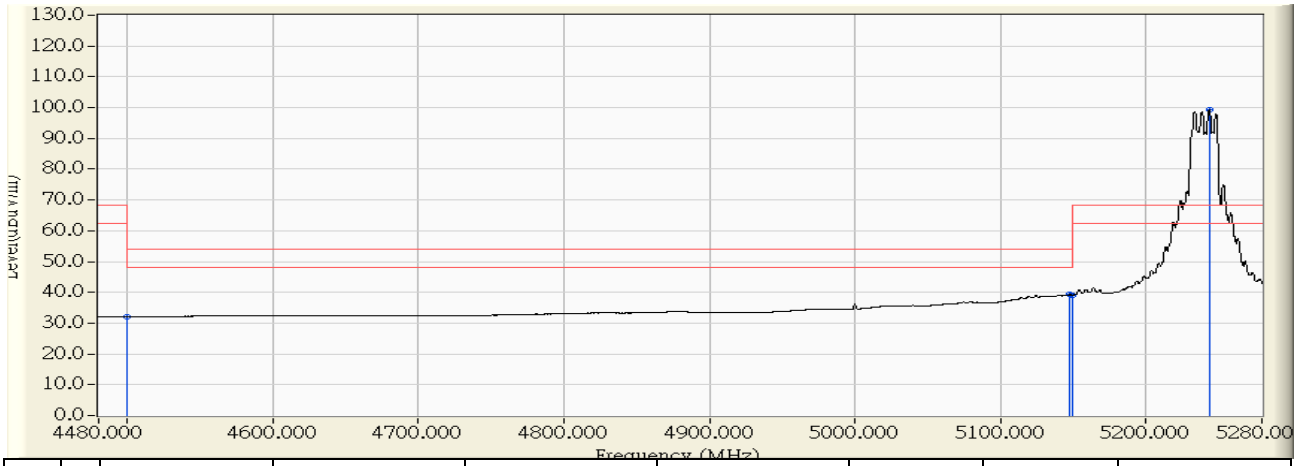


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	44.584	43.179	-30.821	74.000	PEAK
2		5138.400	0.885	50.584	51.469	-22.531	74.000	PEAK
3		5150.000	0.975	51.046	52.021	-21.979	74.000	PEAK
4	*	5244.000	1.704	107.822	109.526	21.226	88.300	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 : 2014/06/11 - 17:20**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5240MHz**

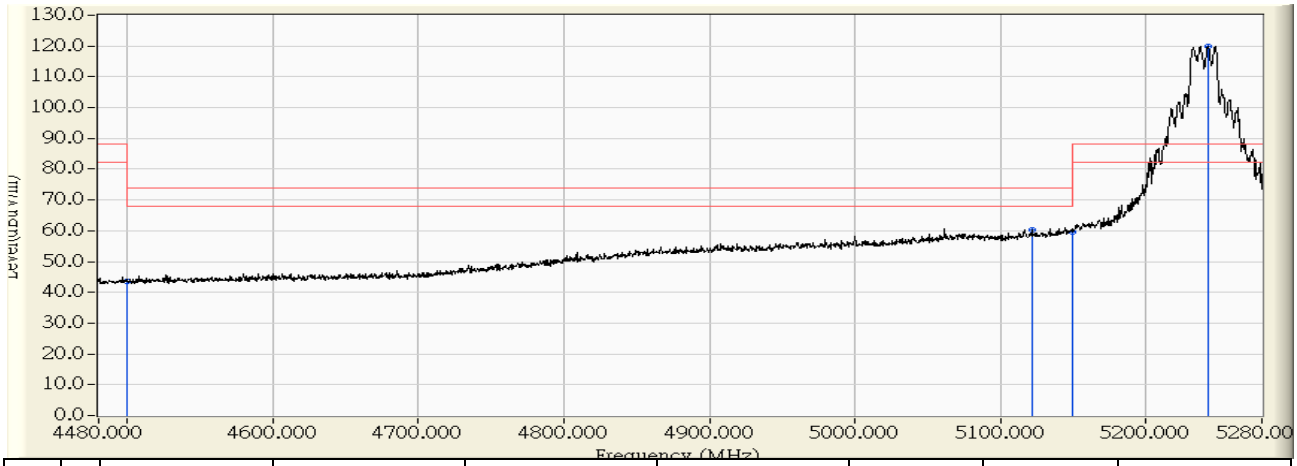


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	33.449	32.044	-21.956	54.000	AVERAGE
2		5148.000	0.959	38.328	39.288	-14.712	54.000	AVERAGE
3		5150.000	0.975	38.017	38.992	-15.008	54.000	AVERAGE
4	*	5244.000	1.704	97.510	99.214	30.914	68.300	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 : 2014/06/11 - 17:14**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5240MHz**

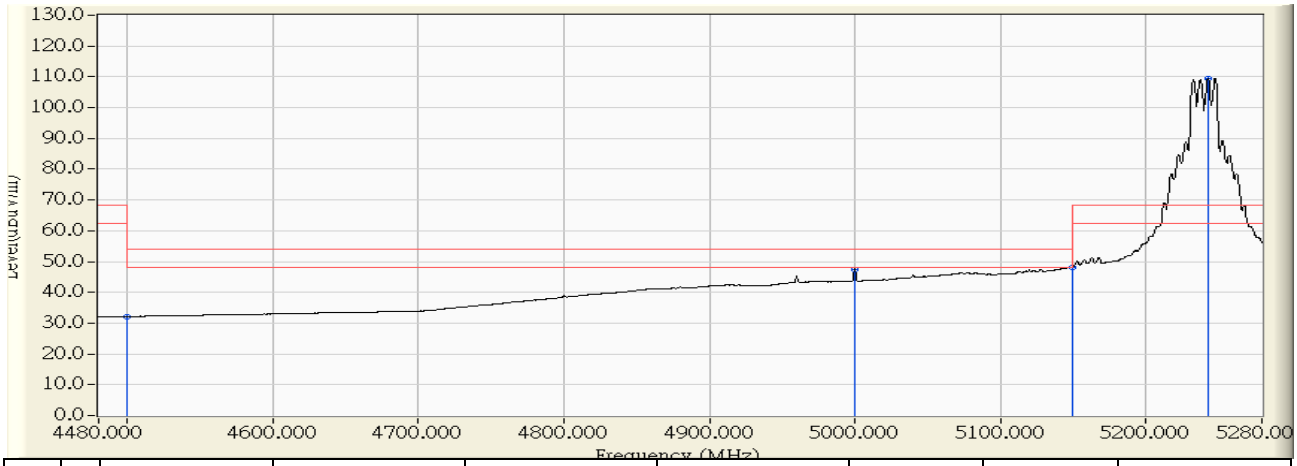


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	44.998	43.593	-30.407	74.000	PEAK
2		5121.600	0.756	59.673	60.428	-13.572	74.000	PEAK
3		5150.000	0.975	58.748	59.723	-14.277	74.000	PEAK
4	*	5242.800	1.695	118.212	119.907	31.607	88.300	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 : 2014/06/11 - 17:13**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(20MHz)_5240MHz**

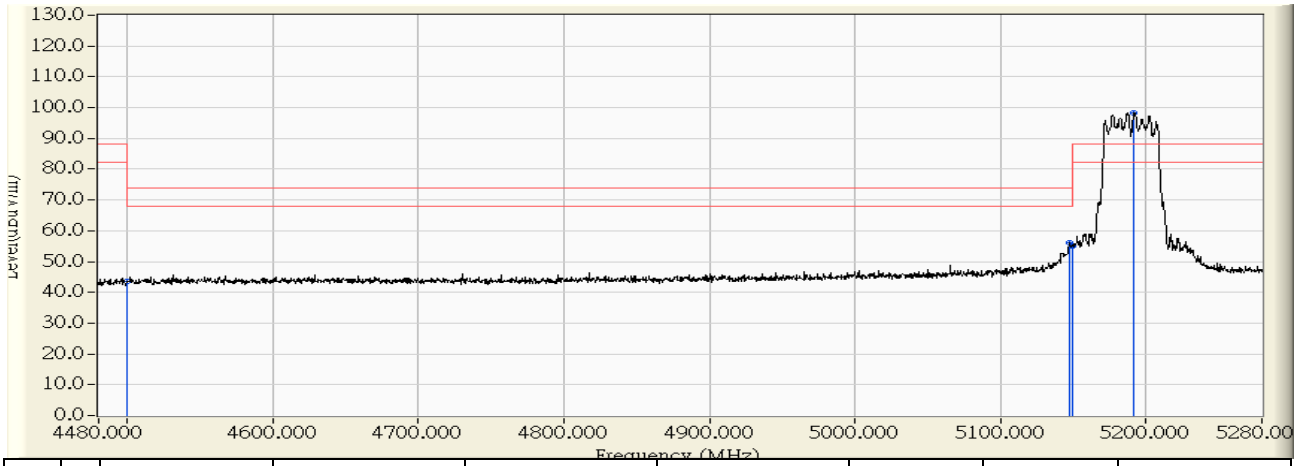


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	33.546	32.141	-21.859	54.000	AVERAGE
2		4999.600	-0.171	47.647	47.476	-6.524	54.000	AVERAGE
3		5150.000	0.975	47.102	48.077	-5.923	54.000	AVERAGE
4	*	5242.800	1.695	107.759	109.454	41.154	68.300	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 : 2014/06/11 - 15:05**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(40MHz)_5190MHz**

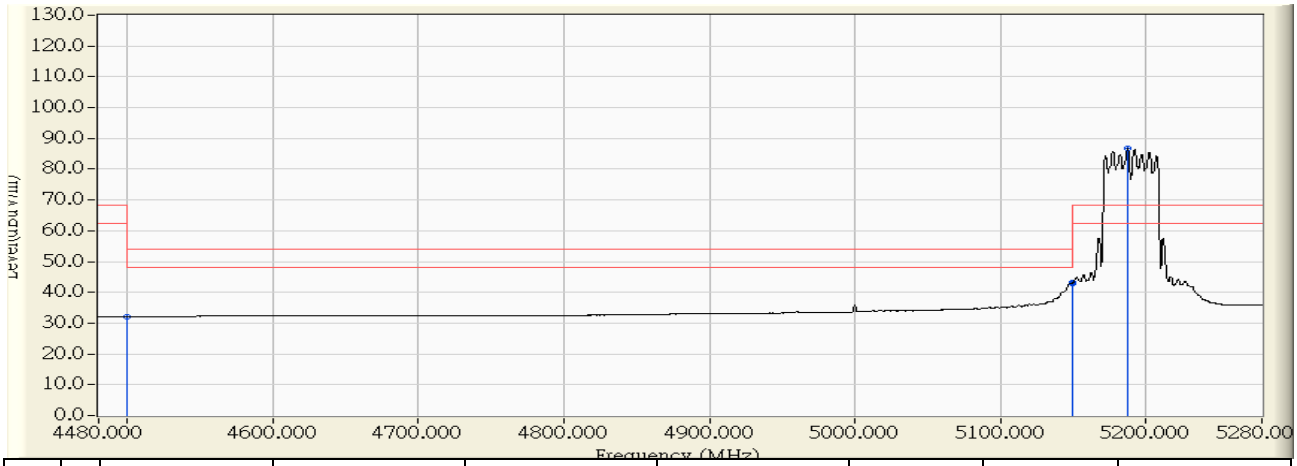


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	44.960	43.555	-30.445	74.000	PEAK
2		5147.200	0.954	55.294	56.248	-17.752	74.000	PEAK
3		5150.000	0.975	54.077	55.052	-18.948	74.000	PEAK
4	*	5192.000	1.302	96.981	98.282	9.982	88.300	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 : 2014/06/11 - 15:07**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(40MHz)_5190MHz**

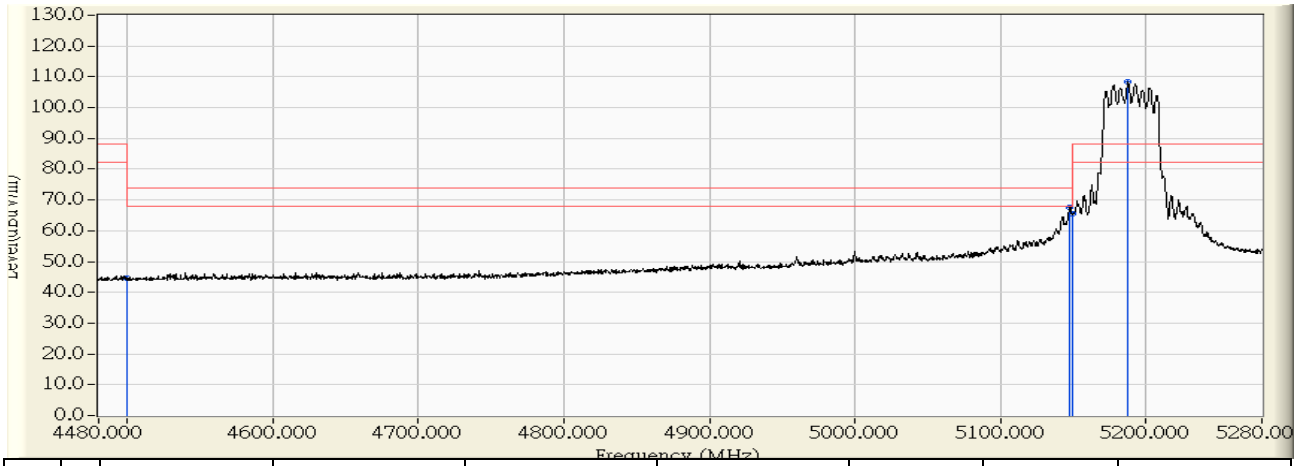


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	33.421	32.016	-21.984	54.000	AVERAGE
2		5149.600	0.972	41.989	42.961	-11.039	54.000	AVERAGE
3		5150.000	0.975	42.138	43.113	-10.887	54.000	AVERAGE
4	*	5187.600	1.266	85.379	86.646	18.346	68.300	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 : 2014/06/11 - 15:00**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(40MHz)_5190MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	45.934	44.529	-29.471	74.000	PEAK
2		5147.600	0.956	66.527	67.484	-6.516	74.000	PEAK
3		5150.000	0.975	64.506	65.481	-8.519	74.000	PEAK
4	*	5188.000	1.269	107.140	108.410	20.110	88.300	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.

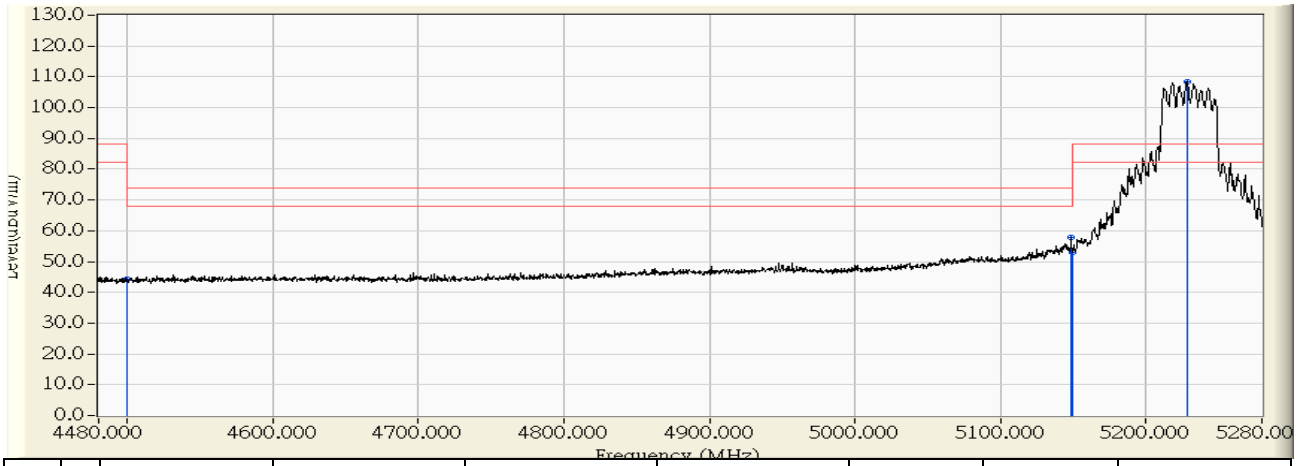
Site : CB1	**Time : 2014/06/11 - 14:56**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(40MHz)_5190MHz**

		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	33.469	32.064	-21.936	54.000	AVERAGE
2		5147.600	0.956	51.624	52.581	-1.419	54.000	AVERAGE
3		5150.000	0.975	51.285	52.260	-1.740	54.000	AVERAGE
4	*	5188.000	1.269	94.805	96.075	27.775	68.300	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 : 2014/06/11 - 15:13**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(40MHz)_5230MHz**

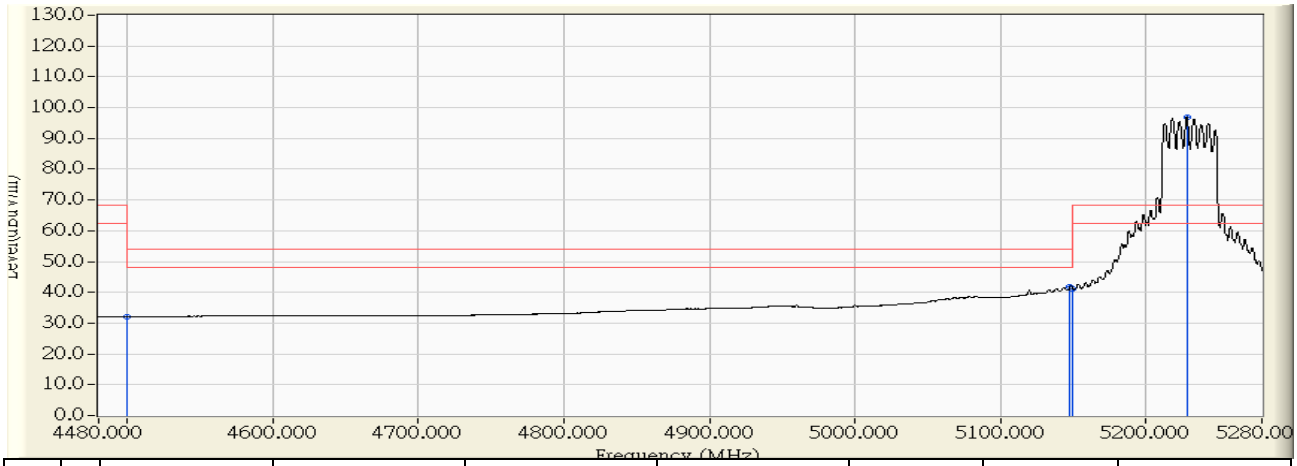


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	45.605	44.200	-29.800	74.000	PEAK
2		5148.800	0.966	56.731	57.697	-16.303	74.000	PEAK
3		5150.000	0.975	52.025	53.000	-21.000	74.000	PEAK
4	*	5228.800	1.586	106.910	108.496	20.196	88.300	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 : 2014/06/11 - 15:15**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(40MHz)_5230MHz**

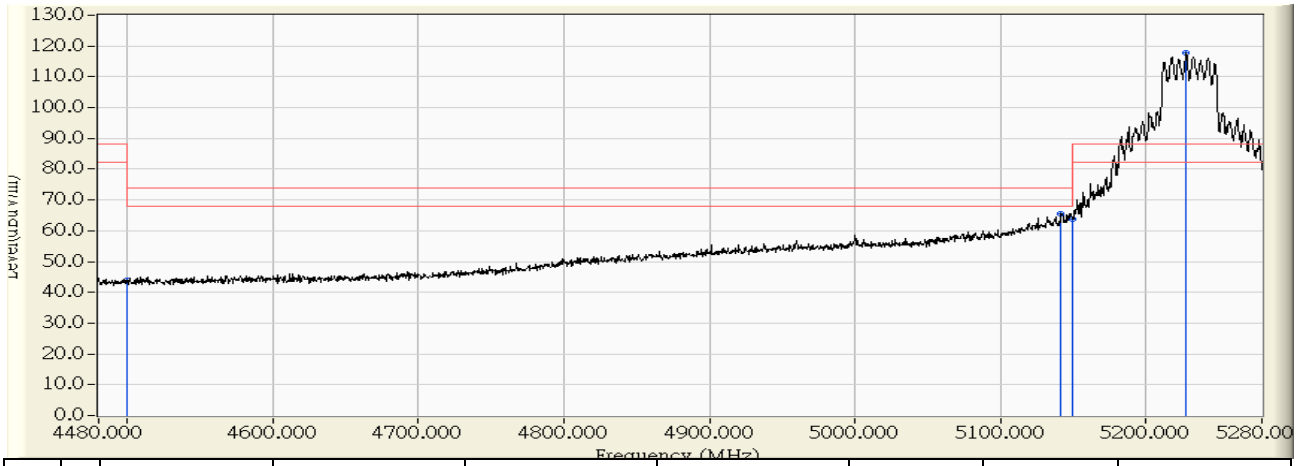


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	33.386	31.981	-22.019	54.000	AVERAGE
2		5148.000	0.959	41.020	41.980	-12.020	54.000	AVERAGE
3		5150.000	0.975	40.167	41.142	-12.858	54.000	AVERAGE
4	*	5228.400	1.583	95.303	96.886	28.586	68.300	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 : 2014/06/11 - 14:39**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(40MHz)_5230MHz**

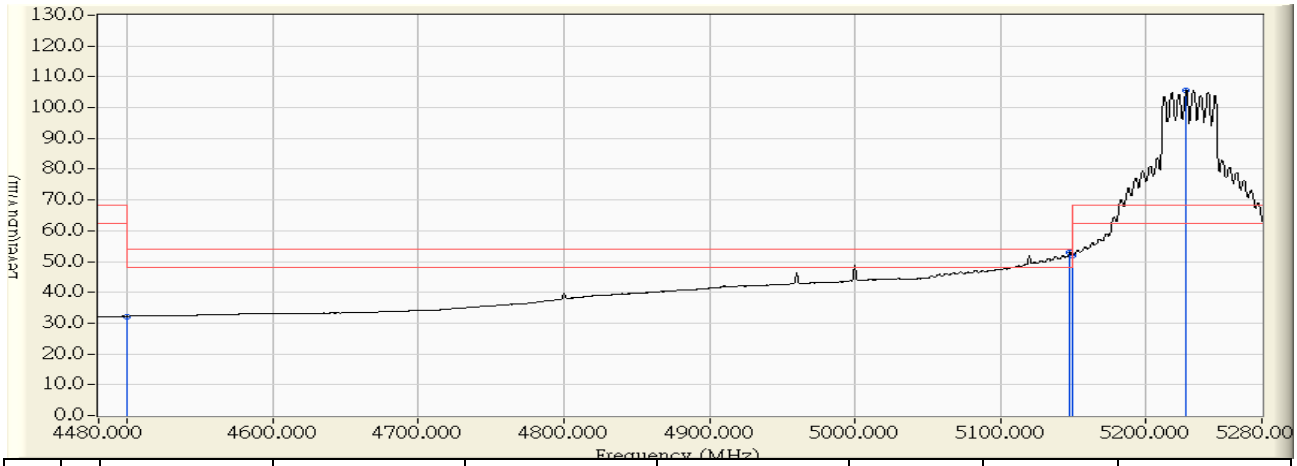


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	45.484	44.079	-29.921	74.000	PEAK
2		5142.000	0.914	64.461	65.374	-8.626	74.000	PEAK
3		5150.000	0.975	62.730	63.705	-10.295	74.000	PEAK
4	*	5228.000	1.580	116.313	117.893	29.593	88.300	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 : 2014/06/11 - 14:38**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Gigabit Router Dual-band Wireless-N900	**Note : Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH 802.11n(40MHz)_5230MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	33.635	32.230	-21.770	54.000	AVERAGE
2		5148.000	0.959	51.951	52.911	-1.089	54.000	AVERAGE
3		5150.000	0.975	51.025	52.000	-2.000	54.000	AVERAGE
4	*	5228.000	1.580	104.160	105.740	37.440	68.300	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.

8. Frequency Stability

8.1. Test Equipment

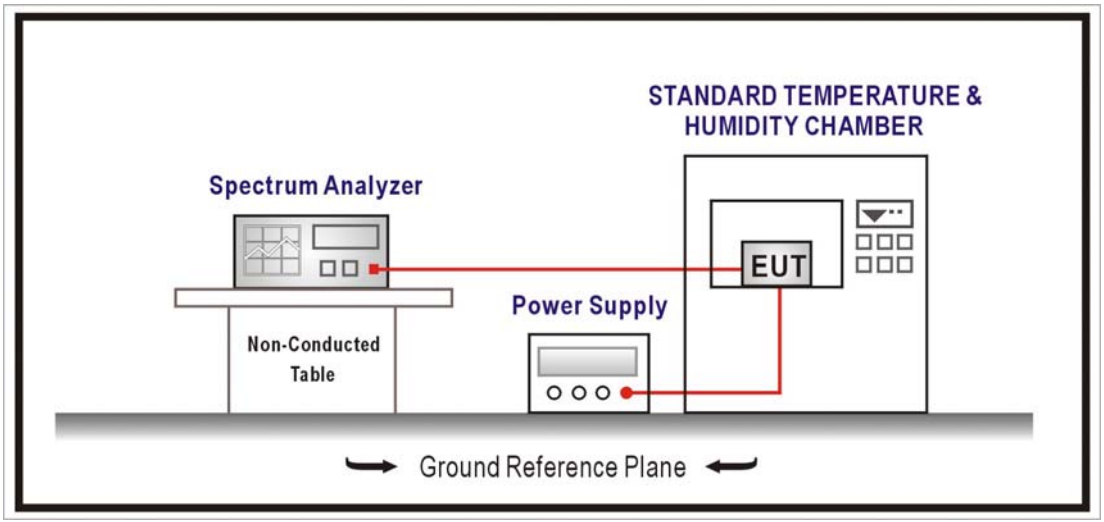
The following test equipments are used during the radiated emission tests:

Frequency Stability / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2014/08/05
Temperature & Humidity Chamber	WIT	TH-1S-B	1082101	2015/01/22

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

8.2. Test Setup



8.3. Limits

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified

8.4. Test Procedure

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

8.5. Uncertainty

The measurement uncertainty is defined as ± 150 Hz

8.6. Test Result

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11a - 5180MHz(ANT 0)		
Date of Test	2014/06/14	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5180.0029	0.5545	PASS
-10		5180.2830	54.6401	PASS
0		5180.6815	131.5650	PASS
10		5180.8651	166.9990	PASS
20		5180.7915	152.8036	PASS
30		5180.4325	83.4889	PASS
40		5180.4021	77.6268	PASS
50		5180.0838	16.1838	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5180.2330	44.9728	PASS
	120	5180.8037	155.1482	PASS
	138	5180.0095	1.8407	PASS

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11a - 5240MHz(ANT 0)		
Date of Test	2014/06/14	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5240.4917	93.8356	PASS
-10		5240.3197	61.0203	PASS
0		5240.3202	61.1112	PASS
10		5240.4961	94.6742	PASS
20		5240.6194	118.2071	PASS
30		5240.2662	50.7940	PASS
40		5240.5535	105.6298	PASS
50		5240.1174	22.4088	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5240.3444	65.7247	PASS
	120	5240.0052	0.9998	PASS
	138	5240.3432	65.4979	PASS

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11a - 5180MHz(ANT 1)		
Date of Test	2014/06/14	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5180.2648	51.1140	PASS
-10		5180.0161	3.0996	PASS
0		5180.3729	71.9958	PASS
10		5180.7161	138.2425	PASS
20		5180.3693	71.2988	PASS
30		5180.3583	69.1784	PASS
40		5180.4885	94.3120	PASS
50		5180.2056	39.7005	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5180.5148	99.3857	PASS
	120	5180.2430	46.9042	PASS
	138	5180.4396	84.8710	PASS

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11a - 5240MHz(ANT 1)		
Date of Test	2014/06/14	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5240.2784	53.1377	PASS
-10		5240.6637	126.6628	PASS
0		5240.7173	136.8929	PASS
10		5240.6792	129.6268	PASS
20		5240.2509	47.8804	PASS
30		5240.0155	2.9547	PASS
40		5240.1444	27.5594	PASS
50		5240.0539	10.2850	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5240.8976	171.2927	PASS
	120	5240.0180	3.4341	PASS
	138	5240.5135	98.0025	PASS

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11a - 5180MHz(ANT 2)		
Date of Test	2014/06/14	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5180.0029	0.5545	PASS
-10		5180.2830	54.6401	PASS
0		5180.6815	131.5650	PASS
10		5180.8651	166.9990	PASS
20		5180.7915	152.8036	PASS
30		5180.4325	83.4889	PASS
40		5180.4021	77.6268	PASS
50		5180.0838	16.1838	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5180.2330	44.9728	PASS
	120	5180.8037	155.1482	PASS
	138	5180.0095	1.8407	PASS

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11a - 5240MHz(ANT 2)		
Date of Test	2014/06/14	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5240.4917	93.8356	PASS
-10		5240.3197	61.0203	PASS
0		5240.3202	61.1112	PASS
10		5240.4961	94.6742	PASS
20		5240.6194	118.2071	PASS
30		5240.2662	50.7940	PASS
40		5240.5535	105.6298	PASS
50		5240.1174	22.4088	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5240.3444	65.7247	PASS
	120	5240.0052	0.9998	PASS
	138	5240.3432	65.4979	PASS

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_20M - 5180MHz(ANT 0)		
Date of Test	2014/06/14	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5180.2754	53.1683	PASS
-10		5180.4103	79.2133	PASS
0		5180.6934	133.8646	PASS
10		5180.8570	165.4490	PASS
20		5180.2418	46.6847	PASS
30		5180.0709	13.6870	PASS
40		5180.7876	152.0473	PASS
50		5180.6609	127.5905	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5180.2241	43.2593	PASS
	120	5180.2586	49.9293	PASS
	138	5180.4328	83.5562	PASS

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_20M - 5240MHz(ANT 0)		
Date of Test	2014/06/14	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5240.6291	120.0589	PASS
-10		5240.5568	106.2626	PASS
0		5240.2784	53.1217	PASS
10		5240.6438	122.8649	PASS
20		5240.5692	108.6206	PASS
30		5240.1260	24.0369	PASS
40		5240.5797	110.6209	PASS
50		5240.4699	89.6727	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5240.5152	98.3281	PASS
	120	5240.6780	129.3988	PASS
	138	5240.2139	40.8248	PASS

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_20M - 5180MHz(ANT 1)		
Date of Test	2014/06/14	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5180.7044	135.9912	PASS
-10		5180.3543	68.4034	PASS
0		5180.6601	127.4368	PASS
10		5180.5551	107.1718	PASS
20		5180.1178	22.7386	PASS
30		5180.4669	90.1428	PASS
40		5180.5033	97.1617	PASS
50		5180.2783	53.7206	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5180.8641	166.8135	PASS
	120	5180.7657	147.8149	PASS
	138	5180.4453	85.9570	PASS

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_20M - 5240MHz(ANT 1)		
Date of Test	2014/06/14	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5240.7101	135.5119	PASS
-10		5240.6619	126.3223	PASS
0		5240.2958	56.4507	PASS
10		5240.0562	10.7225	PASS
20		5240.2925	55.8221	PASS
30		5240.1113	21.2450	PASS
40		5240.0025	0.4767	PASS
50		5240.4215	80.4403	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5240.0899	17.1655	PASS
	120	5240.4028	76.8771	PASS
	138	5240.0427	8.1477	PASS

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_20M - 5180MHz (ANT 2)		
Date of Test	2014/06/14	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5180.1001	19.3165	PASS
-10		5180.8094	156.2455	PASS
0		5180.0352	6.7899	PASS
10		5180.0115	2.2243	PASS
20		5180.8441	162.9462	PASS
30		5180.7187	138.7366	PASS
40		5180.3046	58.8011	PASS
50		5180.8649	166.9677	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5180.0187	3.6035	PASS
	120	5180.4770	92.0843	PASS
	138	5180.2770	53.4771	PASS

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_20M - 5240MHz (ANT 2)		
Date of Test	2014/06/14	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5240.3069	58.5626	PASS
-10		5240.3076	58.6977	PASS
0		5240.4954	94.5470	PASS
10		5240.3732	71.2153	PASS
20		5240.2758	52.6426	PASS
30		5240.2833	54.0719	PASS
40		5240.0396	7.5551	PASS
50		5240.1925	36.7284	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5240.6353	121.2334	PASS
	120	5240.0268	5.1173	PASS
	138	5240.7364	140.5297	PASS

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_40M - 5190MHz(ANT 0)		
Date of Test	2014/06/14	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5190.1173	22.6097	PASS
-10		5190.4073	78.4695	PASS
0		5190.2607	50.2241	PASS
10		5190.5640	108.6733	PASS
20		5190.7784	149.9803	PASS
30		5190.2353	45.3347	PASS
40		5190.6436	124.0131	PASS
50		5190.5607	108.0424	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5190.8534	164.4272	PASS
	120	5190.5077	97.8313	PASS
	138	5190.7500	144.5011	PASS

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_40M - 5230MHz(ANT 0)		
Date of Test	2014/06/14	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5230.7603	145.3814	PASS
-10		5230.5039	96.3416	PASS
0		5230.4621	88.3530	PASS
10		5230.5396	103.1735	PASS
20		5230.3767	72.0303	PASS
30		5230.0402	7.6803	PASS
40		5230.4788	91.5504	PASS
50		5230.0702	13.4155	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5230.4573	87.4412	PASS
	120	5230.2047	39.1478	PASS
	138	5230.3714	71.0046	PASS

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_40M - 5190MHz(ANT 1)		
Date of Test	2014/06/14	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5190.0045	0.8613	PASS
-10		5190.8614	165.9806	PASS
0		5190.3843	74.0376	PASS
10		5190.2615	50.3774	PASS
20		5190.2748	52.9537	PASS
30		5190.1946	37.5014	PASS
40		5190.0725	13.9639	PASS
50		5190.0431	8.2952	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5190.4330	83.4253	PASS
	120	5190.6226	119.9600	PASS
	138	5190.0727	14.0068	PASS

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_40M - 5230MHz(ANT 1)		
Date of Test	2014/06/14	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5230.1675	32.0321	PASS
-10		5230.2304	44.0520	PASS
0		5230.2696	51.5571	PASS
10		5230.5625	107.5457	PASS
20		5230.8506	162.6332	PASS
30		5230.7525	143.8835	PASS
40		5230.6991	133.6754	PASS
50		5230.1690	32.3102	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5230.4302	82.2493	PASS
	120	5230.0596	11.3923	PASS
	138	5230.3422	65.4320	PASS

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_40M - 5190MHz(ANT 2)		
Date of Test	2014/06/14	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5190.6893	132.8097	PASS
-10		5190.2636	50.7932	PASS
0		5190.7683	148.0254	PASS
10		5190.4913	94.6621	PASS
20		5190.3126	60.2321	PASS
30		5190.3796	73.1362	PASS
40		5190.2169	41.7942	PASS
50		5190.1819	35.0415	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5190.0208	4.0096	PASS
	120	5190.5985	115.3168	PASS
	138	5190.1041	20.0551	PASS

Product	Gigabit Router Dual-band Wireless-N900		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit(CDD Mode)_Adapter: ASUS, EXA1004UH - 802.11n_40M -5230MHz(ANT 2)		
Date of Test	2014/06/14	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5230.0925	17.6826	PASS
-10		5230.5911	113.0250	PASS
0		5230.5870	112.2357	PASS
10		5230.5467	104.5306	PASS
20		5230.7800	149.1487	PASS
30		5230.2384	45.5764	PASS
40		5230.2697	51.5661	PASS
50		5230.1251	23.9157	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5230.1753	33.5275	PASS
	120	5230.0994	19.0105	PASS
	138	5230.1399	26.7559	PASS