Test Report

Product Name ： ASUS Wireless SuperSpeedN Router
Model No. ： RT-N12
FCC ID. ： MSQ-RTN12

Applicant ： ASUSTeK COMPUTER INC.
Address ： No. 15, Li-Te Rd., Peitou, Taipei 112,Taiwan

Date of Receipt ： 2009/06/19
Issued Date ： 2009/07/14
Report No. ： 096316R-RFUSP05V01
Report Version ： V1.0

Test Report Certification

Issued Date : 2009/07/14
Report No. : 096316R-RFUSP05V01

QuieTek

Product Name	:	ASUS Wireless SuperSpeedN Router
Applicant	:	ASUSTeK COMPUTER INC.
Address	:	No. 15, Li-Te Rd., Peitou, Taipei 112,Taiwan
Manufacturer	:	DANRIVER TECHNOLOGY(GUANGZHOU) INC.
Model No.	:	RT-N12
FCC ID.	:	MSQ-RTN12
Rated Voltage	:	AC 120 V / 60 Hz
EUT Voltage	:	AC 120 V / 60 Hz
Trade Name	:	ASUS
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart C Section 15.247:2008
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 : Demi Chang
(Demi Chang / Engineering Adm. Specialist)

Reviewed By : Lucia Lu
(Lucia Lu / Engineer)

Approved By : Roy Wang
(Roy Wang / Manager)

TABLE OF CONTENTS

1. General Information

1.1. EUT Description

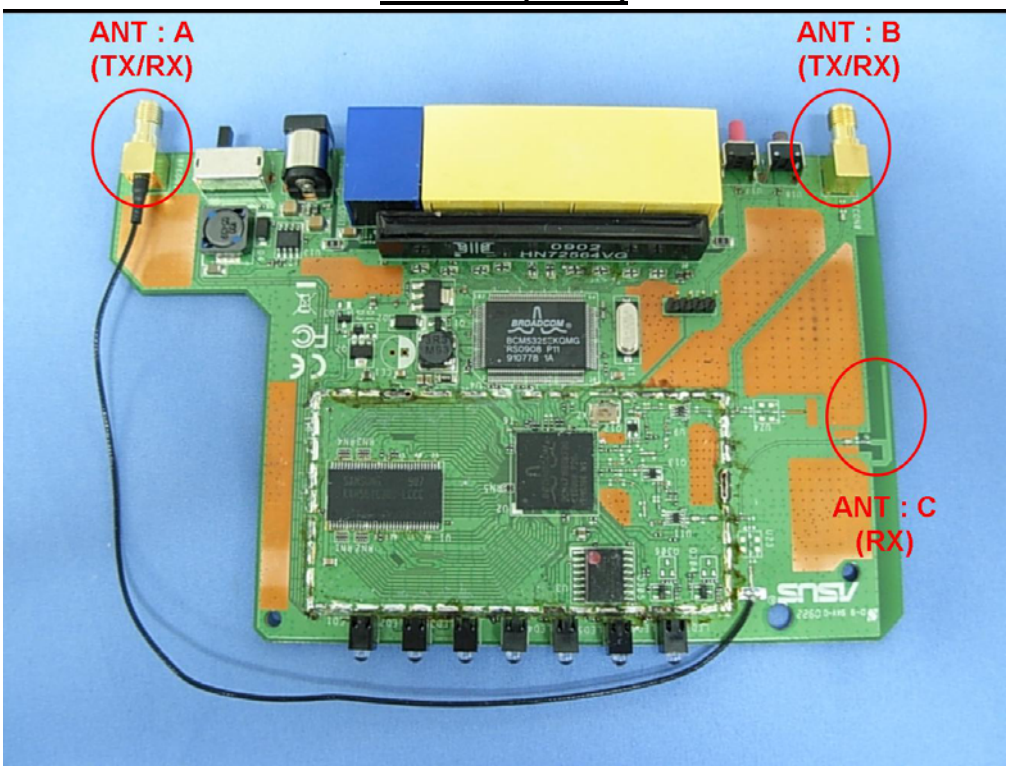
Product Name	ASUS Wireless SuperSpeedN Router
Product Type	WLAN(2TX,3RX)
Trade Name	ASUS
Model No.	RT-N12
Frequency Range -IEEE 802.11b/g & IEEE 802.11n (20MHz)	2412~2462MHz
Frequency Range- IEEE 802.11n (40MHz)	2422~2452MHz
Channel Number (IEEE 802.11b/g & IEEE 802.11n (20MHz))	11
Channel Number- IEEE 802.11n (40MHz)	7
Type of Modulation (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Type of Modulation (IEEE 802.11g)	Orthogonal Frequency Division Multiplexing (OFDM)
Data Speed (IEEE 802.11b)	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data Speed (IEEE 802.11g)	6Mbps,9Mbps,12Mbps,18Mbps,24Mbps,36Mbps,48Mbps,54Mbps
Data Speed (IEEE 802.11n)	Support a subset of the combination of GI, MCS 0~MCS 15 and bandwidth defined in 802.11n
Antenna	ANT A (TX/RX): 2.5 dBi; ANT B (TX/RX): 2.5 dBi
Channel Control	Manual
Antenna Type	Monopole

Component	
LAN Cable	Non-Shielded, 1m
Power Adapter	AMIGO, AMS8-1201000SU I/P: 100-120V 50/60Hz 0.5A O/P: 12V, 1A Cable Out: Non-Shielded, 1.5m

ANT-TX / RX & Bandwidth

ANT-TX / RX	SINGLE-TX		TWO-TX		RX	
Mode/ Channel Bandwidth	20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
IEEE802.11b	✓				✓	
IEEE802.11g	✓					
Draft 11n			✓	✓	✓	✓

ANT A / B (TX/RX)



Draft 11n Spec.

MCS Index	Nss	Modulation	R	NBPSC	NCBPS		NDBPS		Datarate(Mbps)			
									800nsGI		400nsGI	
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5	7.200	15
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0	14.400	30
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5	21.700	45
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0	28.900	60
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0	43.300	90
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0	57.800	120
6	1	64-QAM	3/4	6	312	648	234	486	58.5	121.5	65.000	135
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0	72.200	150
8	2	BPSK	1/2	1	104	216	52	108	13.0	27.0	14.444	30
9	2	QPSK	1/2	2	208	432	104	216	26.0	54.0	28.889	60
10	2	QPSK	3/4	2	208	432	156	324	39.0	81.0	43.333	90
11	2	16-QAM	1/2	4	416	864	208	432	52.0	108.0	57.778	120
12	2	16-QAM	3/4	4	416	864	312	648	78.0	162.0	86.667	180
13	2	64-QAM	2/3	6	624	1296	416	864	104.0	216.0	115.556	240
14	2	64-QAM	3/4	6	624	1296	468	972	117.0	243.0	130.000	270
15	2	64-QAM	5/6	6	624	1296	520	1080	130.0	270.0	144.444	300

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPSC	Number of coded bits per single carrier
NCBPS	Number of coded bits per symbol
NDBPS	Number of data bits per symbol
GI	guard interval

IEEE 802.11b/g & IEEE 802.11n (20MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
001	2412 MHz	002	2417 MHz	003	2422 MHz	004	2427 MHz
005	2432 MHz	006	2437 MHz	007	2442 MHz	008	2447 MHz
009	2452 MHz	010	2457 MHz	011	2462 MHz		

IEEE 802.11n (40MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
003	2422 MHz	004	2427 MHz	005	2432 MHz	006	2437 MHz
007	2442 MHz	008	2447 MHz	009	2452 MHz		

Note:

1. This device is an ASUS Wireless SuperSpeedN Router, which including 2.4GHz b/g and 11n (2x3) transmitting and receiving function.
2. ASUS ASUS Wireless SuperSpeedN Router has two sets of antenna can be used. The type of antenna is the same for both set.
   The difference is value of antenna gain. One is 2.5 dBi and another one is 1.8 dBi.
   All the tests were performed using higher gain antenna in order to find the worst condition.
3. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart C Paragraph 15.247.
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. This device is a composite device in accordance with Part 15 regulations. The receiving function receiving was tested and its test report number is 096316R-RFUSP01V02 under Declaration of Conformity.

1.2. Operational Description

The EUT is an IEEE 802.11b / g / n for 2.4GHz wireless transceiver signal. Operating Frequency Range of the WLAN is from 2412 MHz to 2462 MHz. The ASUS Wireless SuperSpeedN Router is supplied with an Ethernet cable in the package. The wireless router has an integrated auto-crossover function. The ASUS Wireless SuperSpeedN Router has two transmitters and three receivers. The 802.11b/g is single transmit. The 802.11n has two transmit and includes both 20Mbps and 40Mbps.

The device provided four kinds of transmitting speed 1, 2, 5.5 and 11Mbps for IEEE 802.11b and eight kinds of transmitting speed 6, 9, 12,18, 24, 36, 48 and 54Mbps for IEEE 802.11g and MCS0 – MCS15 for IEEE 802.11n. The device of RF carrier is DQPSK, DBPSK and CCK. Operation in 2.4GHz Direst Sequence Spread Spectrum (DSSS) radio transmission for IEEE 802.11b and Orthogonal Frequency Division Multiplexing (OFDM) for IEEE 802.11g.

The ASUS ASUS Wireless SuperSpeedN Router can meet various working scenarios with proper configuration. The default settings of the wireless router may need change so as to meet your individual needs. Therefore, before using the ASUS Wireless Router, check the basic settings to make sure they all work in your environment. ASUS provides a utility named WPS for fast wireless configuration.

1.3. Test Mode

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

TX	Mode 1: Transmit

Test Items	Mode1	Channel	Antenna	Result
Conducted Emission	b/g/11n(20MHz)/11n(40MHz)	6	A/A+B	Complies
Peak Power Output	b/g	1 /6/ 11	A	Complies
	11n-MCS08 (20MHz)	1 /6/ 11	A+B	Complies
	11n-MCS08 (40MHz)	3 /6/ 9	A+B	Complies
Radiated Emission	b/g	1 /6/ 11	A	Complies
	11n-MCS08 (20MHz)	1 /6/ 11	A+B	Complies
	11n-MCS08 (40MHz)	3 /6/ 9	A+B	Complies
RF antenna conducted test	b/g	1 /6/ 11	A	Complies
	11n-MCS08 (20MHz)	1 /6/ 11	A/B	Complies
	11n-MCS08 (40MHz)	3 /6/ 9	A/B	Complies
Radiated Emission Band Edge	b/g	1 /6/ 11	A	Complies
	11n-MCS08 (20MHz)	1 /6/ 11	A+B	Complies
	11n-MCS08 (40MHz)	3 /6/ 9	A+B	Complies
Occupied Bandwidth	b/g	1 /6/ 11	A	Complies
	11n-MCS08 (20MHz)	1 /6/ 11	A/B	Complies
	11n-MCS08 (40MHz)	3 /6/ 9	A/B	Complies
Power Density	b/g	1 /6/ 11	A	Complies
	11n-MCS08 (20MHz)	1 /6/ 11	A+B	Complies
	11n-MCS08 (40MHz)	3 /6/ 9	A+B	Complies

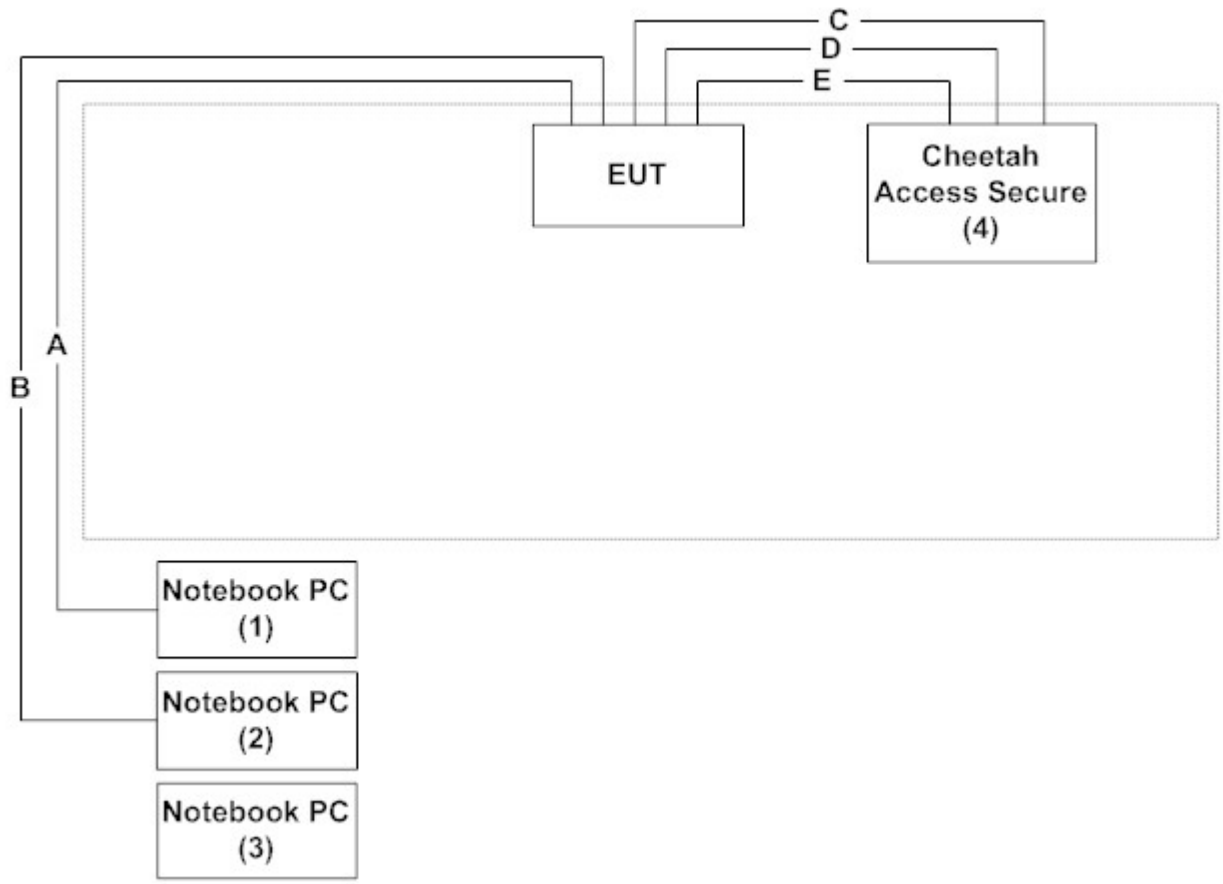
1.4. Tested System Details

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

Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	Notebook PC	DELL	Latitude 610	N/A	DoC	Non-shielded, 1.7m, a ferrite core bonded
2	Notebook PC	DELL	LATITUDE D400	HK43D1S	DoC	Non-shielded, 1.7m, a ferrite core bonded
3	Notebook PC	DELL	LATITUDE D400	GK43D1S	DoC	Non-shielded, 1.7m, a ferrite core bonded
4	Cheetah Access Secure	Accton	AC-IG1104	N/A	DoC	Non-Shielded, 1.8m

1.5. Configuration of tested System

Connection Diagram



Signal Cable Type		Signal cable Description
A	LAN Cable	Non-Shielded, 10m
B	LAN Cable	Non-Shielded, 10m
C	LAN Cable	Non-Shielded, 1.5m
D	LAN Cable	Non-Shielded, 1.5m
E	LAN Cable	Non-Shielded, 1.5m

1.6. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.5.
2	Turn on the power of all equipment.
3	Boot the Notebook PC from Hard Disk.
4	Data will communicate by connecting to LAN port of Notebook PC.
5	The Notebook PC ‘s monitor will show the transmitting and receiving characteristics when the communication is success.
6	Repeat the above procedure (4) to (5).

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	FCC PART 15 C 15.207 Conducted Emission	15 - 35	20
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output (DSSS)	15 - 35	23.5
Humidity (%RH)		25 - 75	53
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	65
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Band Edge (DSSS)	15 - 35	26
Humidity (%RH)		25 - 75	65
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth (DSSS)	15 - 35	26
Humidity (%RH)		25 - 75	52.8
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Power Density (DSSS)	15 - 35	26
Humidity (%RH)		25 - 75	52.8
Barometric pressure (mbar)		860 - 1060	950-1000

Site Description:

January 24, 2005 File on
Federal Communications Commission
Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number:
365520

Accredited by TAF
Accreditation Number: 1313
Effective through: December 27, 2010

Accredited by NVLAP
NVLAP Lab Code: 200347-0
Effective through: September 30, 2009

Site Name: Quietek Corporation
Site Address: No.75-1, Wang-Yeh Valley, Yung-Hsing,
Chiung-Lin, Hsin-Chu County,
Taiwan, R.O.C.
TEL : 886-3-592-8858 / FAX : 886-3-592-8859
E-Mail : service@quietek.com

2. Conducted Emission

2.1. Test Equipment

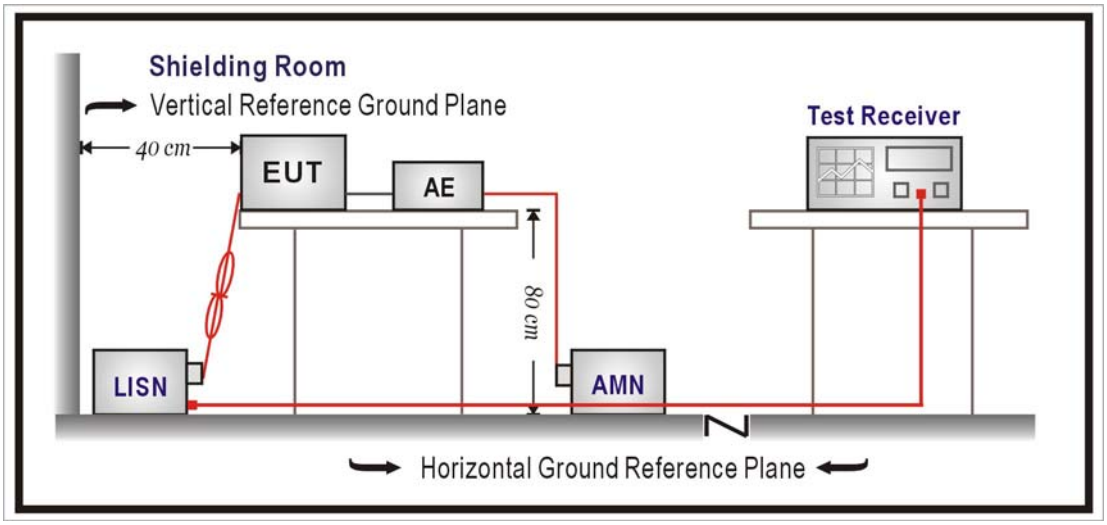
The following test equipments are used during the test:

Conducted Emission / SR3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
4-Wire ISN	R & S	ENY 41	837032/001	2009/04/15
Double 2-Wire ISN	R & S	ENY 22	835354/008	2009/04/15
LISN	R & S	ESH3-Z5	836679/022	2009/06/17
LISN	R & S	ESH3-Z5	836679/013	2008/12/30
Pulse Limiter	R & S	ESH3-Z2	100411	2008/11/16
Test Receiver	R & S	ESCS 30	100149	2008/11/15

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

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

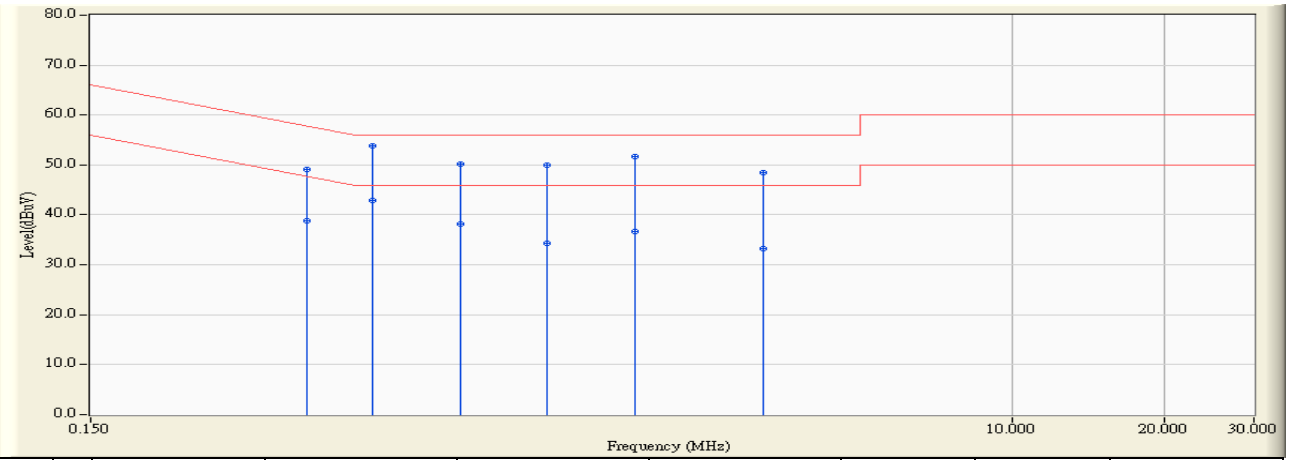
The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.
The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane 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 9KHz.

2.5. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.6. Test Result

Site : SR3	**Time : 2009/06/23 - 09:36**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR3_LISN(16A) - Line1	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Mode 1: Transmit-B-2437MHz**

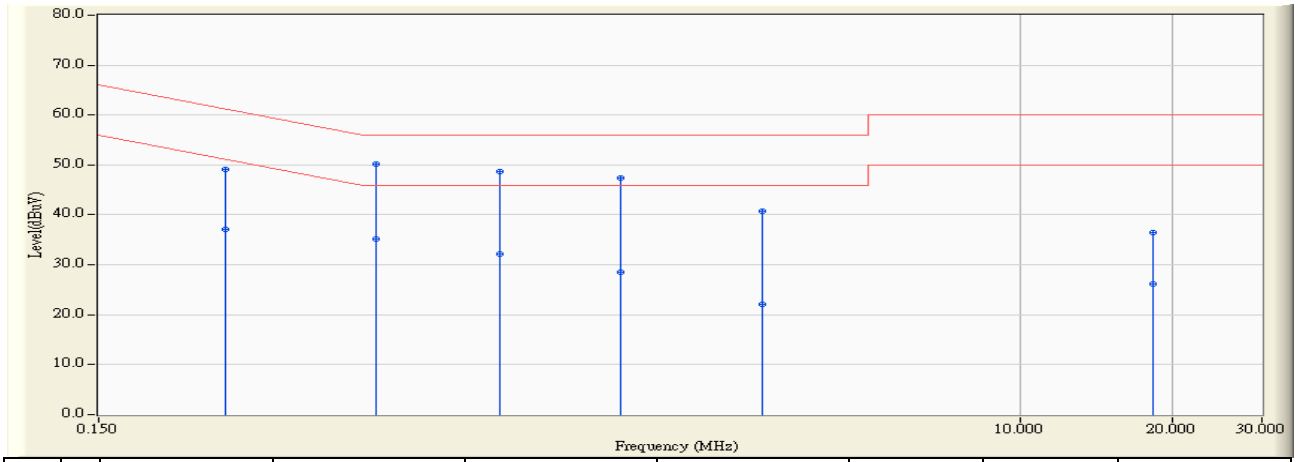


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.401	9.840	39.210	49.050	-8.778	57.827	QUASIPEAK
2		0.401	9.840	29.020	38.860	-8.968	47.827	AVERAGE
3	*	0.541	9.889	43.860	53.749	-2.251	56.000	QUASIPEAK
4		0.541	9.889	33.100	42.989	-3.011	46.000	AVERAGE
5		0.806	9.877	40.300	50.177	-5.823	56.000	QUASIPEAK
6		0.806	9.877	28.400	38.277	-7.723	46.000	AVERAGE
7		1.198	9.870	40.120	49.990	-6.010	56.000	QUASIPEAK
8		1.198	9.870	24.400	34.270	-11.730	46.000	AVERAGE
9		1.788	9.899	41.850	51.749	-4.251	56.000	QUASIPEAK
10		1.788	9.899	26.820	36.719	-9.281	46.000	AVERAGE
11		3.210	9.914	38.640	48.554	-7.446	56.000	QUASIPEAK
12		3.210	9.914	23.350	33.264	-12.736	46.000	AVERAGE

Note:

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

Site : SR3	**Time : 2009/06/23 - 10:07**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR3_LISN(16A) - Line2	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Mode 1: Transmit-B-2437MHz**

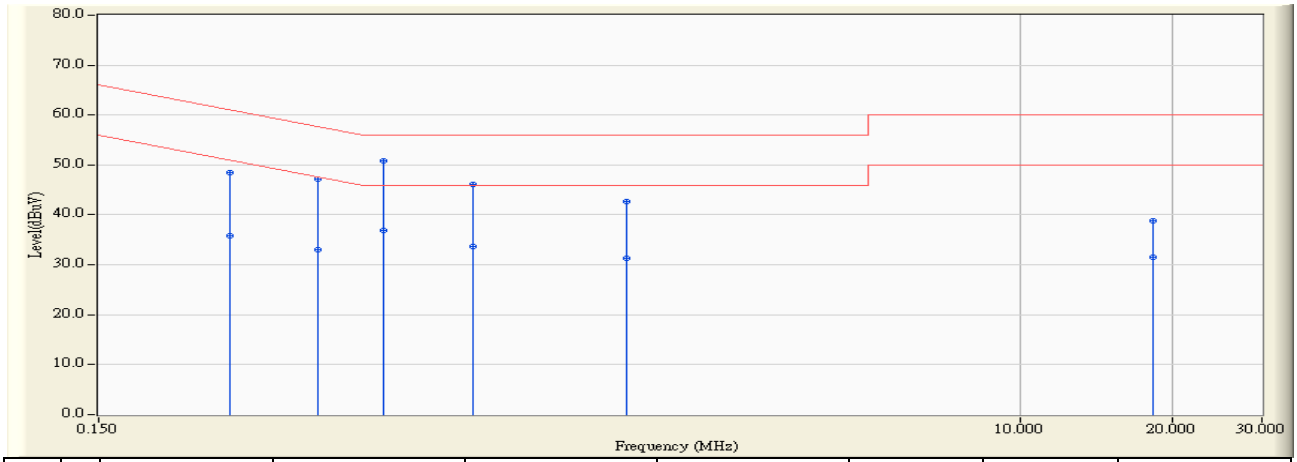


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.267	9.666	39.550	49.216	-11.993	61.210	QUASIPEAK
2		0.267	9.666	27.430	37.096	-14.113	51.210	AVERAGE
3	*	0.530	9.802	40.450	50.252	-5.748	56.000	QUASIPEAK
4		0.530	9.802	25.380	35.182	-10.818	46.000	AVERAGE
5		0.935	9.811	38.770	48.581	-7.419	56.000	QUASIPEAK
6		0.935	9.811	22.390	32.201	-13.799	46.000	AVERAGE
7		1.617	9.828	37.600	47.429	-8.571	56.000	QUASIPEAK
8		1.617	9.828	18.610	28.439	-17.561	46.000	AVERAGE
9		3.082	9.844	31.010	40.854	-15.146	56.000	QUASIPEAK
10		3.082	9.844	12.340	22.184	-23.816	46.000	AVERAGE
11		18.240	10.255	26.190	36.445	-23.555	60.000	QUASIPEAK
12		18.240	10.255	15.890	26.145	-23.855	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 : 2009/06/23 - 10:16**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR3_LISN(16A) - Line1	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Mode 1: Transmit-G-2437MHz**

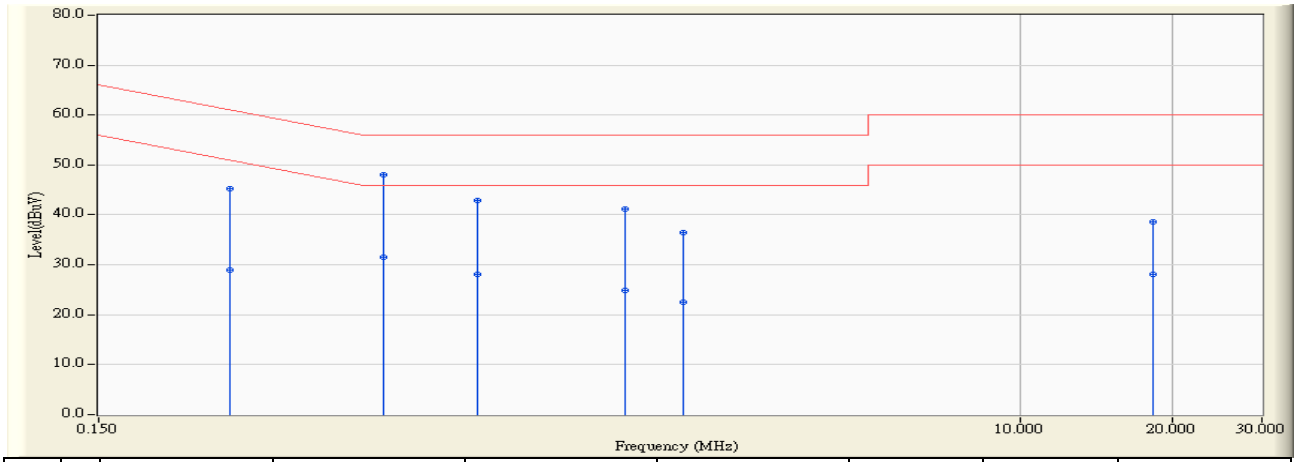


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.273	9.775	38.740	48.515	-12.498	61.013	QUASIPEAK
2		0.273	9.775	26.060	35.835	-15.178	51.013	AVERAGE
3		0.408	9.843	37.260	47.103	-10.590	57.693	QUASIPEAK
4		0.408	9.843	23.120	32.963	-14.730	47.693	AVERAGE
5	*	0.548	9.889	40.900	50.789	-5.211	56.000	QUASIPEAK
6		0.548	9.889	27.040	36.929	-9.071	46.000	AVERAGE
7		0.826	9.875	36.320	46.195	-9.805	56.000	QUASIPEAK
8		0.826	9.875	23.730	33.605	-12.395	46.000	AVERAGE
9		1.657	9.893	32.850	42.743	-13.257	56.000	QUASIPEAK
10		1.657	9.893	21.340	31.233	-14.767	46.000	AVERAGE
11		18.244	10.170	28.620	38.790	-21.210	60.000	QUASIPEAK
12		18.244	10.170	21.450	31.620	-18.380	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 : 2009/06/23 - 10:21**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR3_LISN(16A) - Line2	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Mode 1: Transmit-G-2437MHz**

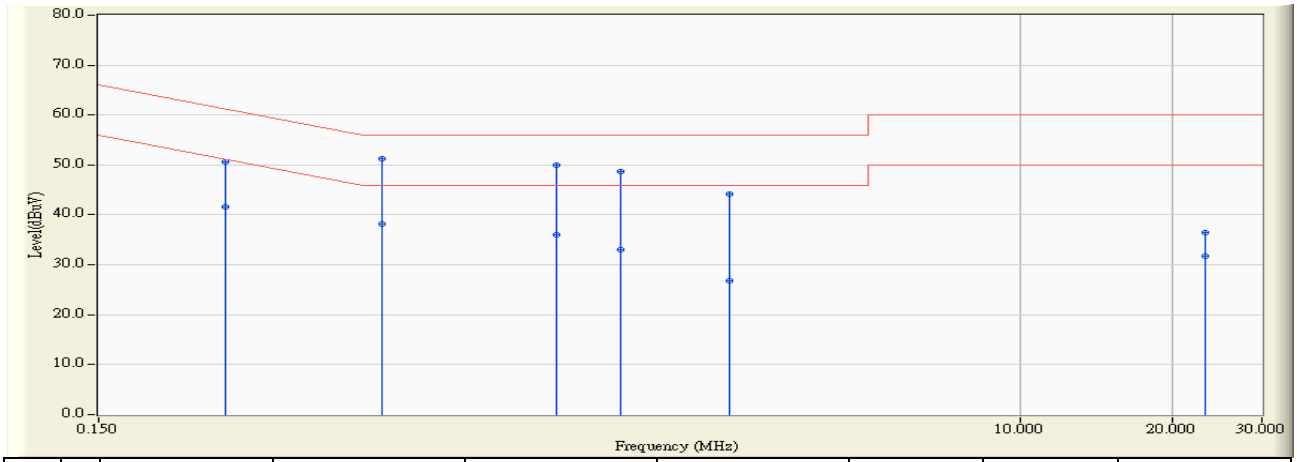


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.272	9.669	35.580	45.249	-15.811	61.060	QUASIPEAK
2		0.272	9.669	19.290	28.959	-22.101	51.060	AVERAGE
3	*	0.549	9.804	38.290	48.094	-7.906	56.000	QUASIPEAK
4		0.549	9.804	21.740	31.544	-14.456	46.000	AVERAGE
5		0.844	9.813	33.110	42.923	-13.077	56.000	QUASIPEAK
6		0.844	9.813	18.190	28.003	-17.997	46.000	AVERAGE
7		1.650	9.830	31.420	41.250	-14.750	56.000	QUASIPEAK
8		1.650	9.830	14.990	24.820	-21.180	46.000	AVERAGE
9		2.154	9.841	26.670	36.511	-19.489	56.000	QUASIPEAK
10		2.154	9.841	12.720	22.561	-23.439	46.000	AVERAGE
11		18.244	10.255	28.350	38.605	-21.395	60.000	QUASIPEAK
12		18.244	10.255	17.820	28.075	-21.925	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 : 2009/06/23 - 10:29**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR3_LISN(16A) - Line1	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Mode 1: Transmit-N(20MHz)-2437MHz**

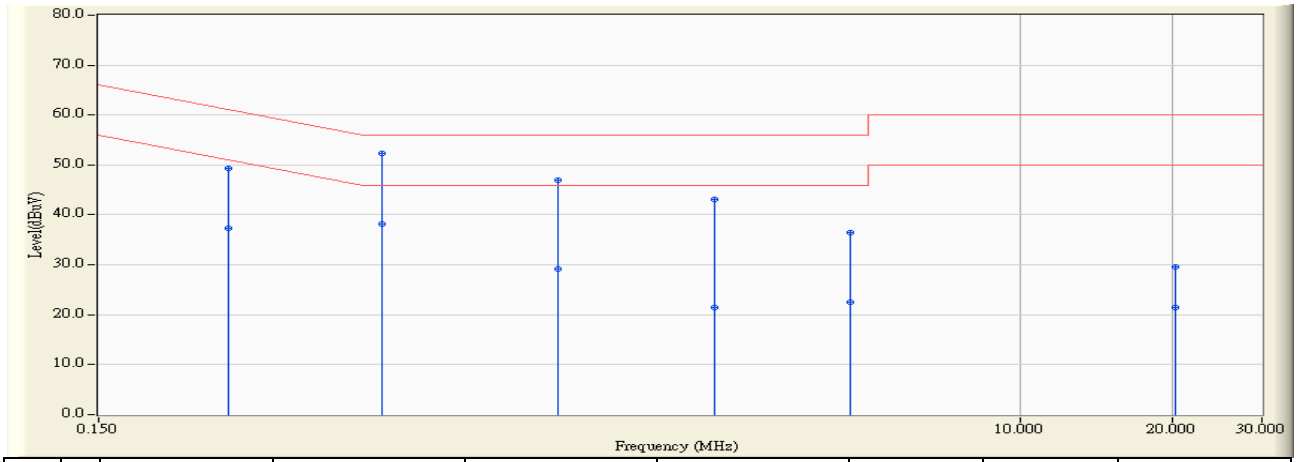


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.267	9.772	40.770	50.542	-10.679	61.220	QUASIPEAK
2		0.267	9.772	31.780	41.552	-9.669	51.220	AVERAGE
3	*	0.545	9.889	41.310	51.199	-4.801	56.000	QUASIPEAK
4		0.545	9.889	28.210	38.099	-7.901	46.000	AVERAGE
5		1.205	9.870	40.050	49.920	-6.080	56.000	QUASIPEAK
6		1.205	9.870	26.150	36.020	-9.980	46.000	AVERAGE
7		1.615	9.891	38.890	48.781	-7.219	56.000	QUASIPEAK
8		1.615	9.891	23.140	33.031	-12.969	46.000	AVERAGE
9		2.652	9.912	34.340	44.252	-11.748	56.000	QUASIPEAK
10		2.652	9.912	16.860	26.772	-19.228	46.000	AVERAGE
11		23.130	10.275	26.150	36.425	-23.575	60.000	QUASIPEAK
12		23.130	10.275	21.500	31.775	-18.225	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 : 2009/06/23 - 10:36**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR3_LISN(16A) - Line2	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Mode 1: Transmit-N(20MHz)-2437MHz**

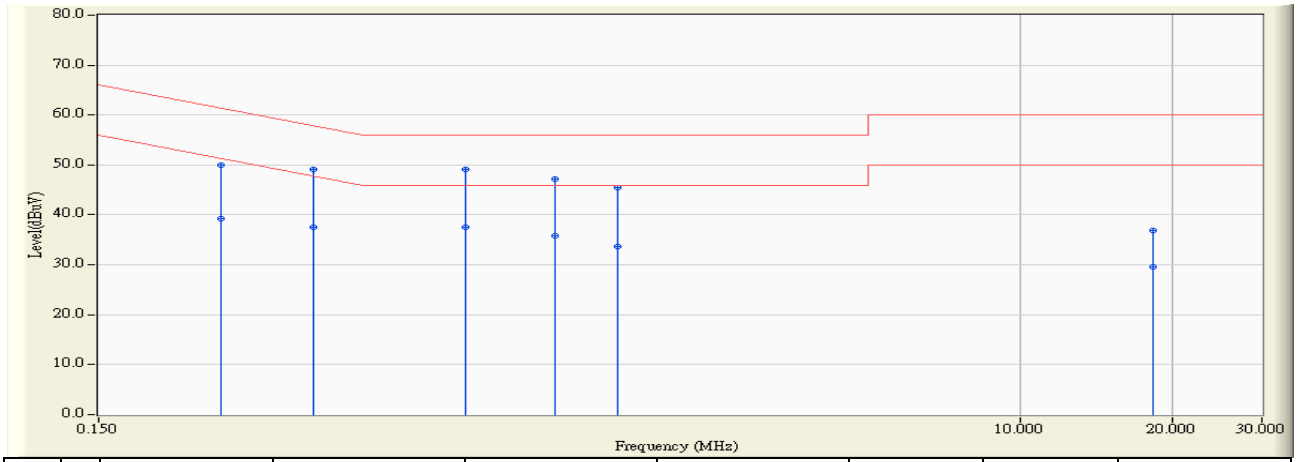


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.271	9.668	39.630	49.298	-11.803	61.102	QUASIPEAK
2		0.271	9.668	27.590	37.258	-13.843	51.102	AVERAGE
3	*	0.545	9.803	42.480	52.283	-3.717	56.000	QUASIPEAK
4		0.545	9.803	28.310	38.113	-7.887	46.000	AVERAGE
5		1.213	9.816	37.140	46.956	-9.044	56.000	QUASIPEAK
6		1.213	9.816	19.300	29.116	-16.884	46.000	AVERAGE
7		2.478	9.842	33.220	43.062	-12.938	56.000	QUASIPEAK
8		2.478	9.842	11.600	21.442	-24.558	46.000	AVERAGE
9		4.617	9.849	26.690	36.539	-19.461	56.000	QUASIPEAK
10		4.617	9.849	12.680	22.529	-23.471	46.000	AVERAGE
11		20.255	10.315	19.190	29.506	-30.494	60.000	QUASIPEAK
12		20.255	10.315	11.230	21.546	-28.454	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 : 2009/06/23 - 10:41**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR3_LISN(16A) - Line1	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Mode 1: Transmit-N(40MHz)-2437MHz**

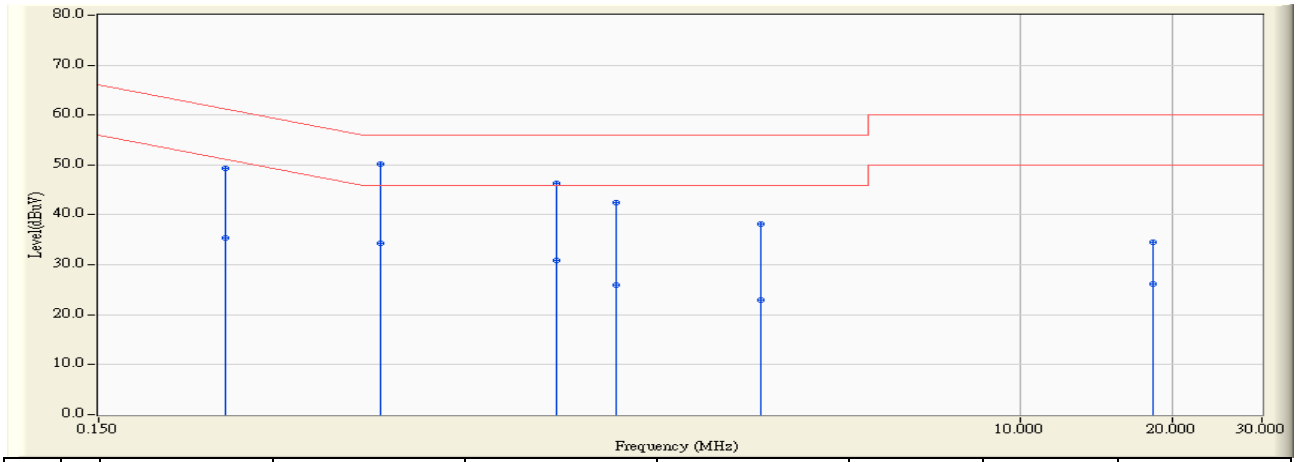


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.262	9.770	40.140	49.910	-11.444	61.354	QUASIPEAK
2		0.262	9.770	29.440	39.210	-12.144	51.354	AVERAGE
3		0.398	9.838	39.380	49.218	-8.668	57.886	QUASIPEAK
4		0.398	9.838	27.800	37.638	-10.248	47.886	AVERAGE
5	*	0.798	9.878	39.310	49.188	-6.812	56.000	QUASIPEAK
6		0.798	9.878	27.670	37.548	-8.452	46.000	AVERAGE
7		1.197	9.870	37.350	47.220	-8.780	56.000	QUASIPEAK
8		1.197	9.870	25.900	35.770	-10.230	46.000	AVERAGE
9		1.599	9.890	35.520	45.410	-10.590	56.000	QUASIPEAK
10		1.599	9.890	23.810	33.700	-12.300	46.000	AVERAGE
11		18.302	10.170	26.750	36.920	-23.080	60.000	QUASIPEAK
12		18.302	10.170	19.520	29.690	-20.310	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 : 2009/06/23 - 10:46**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR3_LISN(16A) - Line2	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Mode 1: Transmit-N(40MHz)-2437MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.267	9.666	39.590	49.256	-11.966	61.222	QUASIPEAK
2		0.267	9.666	25.820	35.486	-15.736	51.222	AVERAGE
3	*	0.541	9.803	40.430	50.233	-5.767	56.000	QUASIPEAK
4		0.541	9.803	24.550	34.353	-11.647	46.000	AVERAGE
5		1.207	9.816	36.490	46.306	-9.694	56.000	QUASIPEAK
6		1.207	9.816	21.050	30.866	-15.134	46.000	AVERAGE
7		1.580	9.828	32.570	42.397	-13.603	56.000	QUASIPEAK
8		1.580	9.828	16.110	25.937	-20.063	46.000	AVERAGE
9		3.052	9.844	28.250	38.094	-17.906	56.000	QUASIPEAK
10		3.052	9.844	13.170	23.014	-22.986	46.000	AVERAGE
11		18.244	10.255	24.370	34.625	-25.375	60.000	QUASIPEAK
12		18.244	10.255	15.970	26.225	-23.775	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. Peak Power Output

3.1. Test Equipment

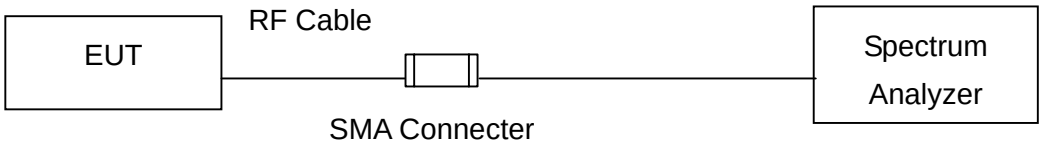
The following test equipments are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Jan., 2009
2	No.1 OATS			Sep., 2008

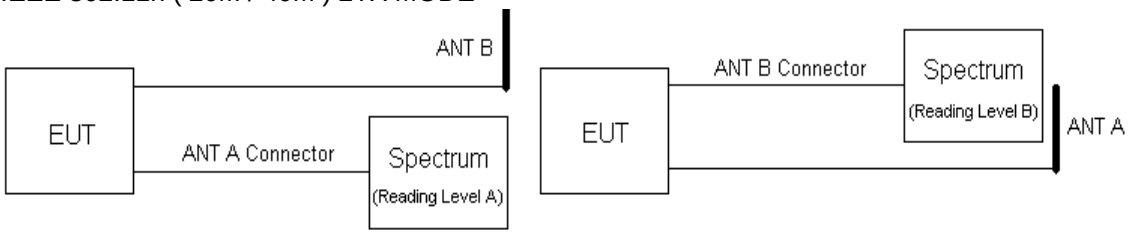
Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

3.2. Test Setup

IEEE 802.11 b / g MODE



IEEE 802.11n (20M / 40M) 2TX MODE



3.3. Test procedures

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

3.4. Limits

The maximum peak power shall be less 1 Watt.

3.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

3.6. Test Result

Product	ASUS Wireless SuperSpeedN Router		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	20.39	1Watt= 30 dBm	Pass
6	2437	21.02	1Watt= 30 dBm	Pass
11	2462	20.52	1Watt= 30 dBm	Pass

Peak Power Output Value (dBm)						
Channel No.	Frequency (MHz)	Data Rate				Required Limit
		1 Mbps	2Mbps	5.5Mbps	11Mbps	
1	2412.00	20.39	--	--	--	1Watt= 30 dBm
6	2437.00	21.02	20.39	19.92	20.51	1Watt= 30 dBm
11	2462.00	20.52	--	--	--	1Watt= 30 dBm

Note: Measure Level =Reading value + cable loss

Product	ASUS Wireless SuperSpeedN Router		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	22.54	1Watt= 30 dBm	Pass
6	2437	22.46	1Watt= 30 dBm	Pass
11	2462	21.54	1Watt= 30 dBm	Pass

Peak Power Output Value(dBm)										
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps	
1	2412.00	--	--	--	--	--	--	--	22.54	1Watt= 30 dBm
6	2437.00	22.07	22.19	22.24	22.31	22.38	22.43	22.43	22.46	1Watt= 30 dBm
11	2462.00	--	--	--	--	--	--	--	21.54	1Watt= 30 dBm

Note: Measure Level =Reading value + cable loss

Product	ASUS Wireless SuperSpeedN Router		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

IEEE 802.11n 20MHz_ANT A

The worst emission of data rate is MCS 08_13Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
1	2412	--	--	--	--	--	--	--	--	30dBm
6	2437	21.03	21.00	20.93	20.83	20.75	20.67	20.51	20.43	30dBm
11	2462	--	--	--	--	--	--	--	--	30dBm

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
1	2412	21.32	--	--	--	--	--	--	--	30dBm
6	2437	21.24	21.17	21.05	20.96	20.79	20.62	20.48	20.37	30dBm
11	2462	21.13	--	--	--	--	--	--	--	30dBm

Product	ASUS Wireless SuperSpeedN Router		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

IEEE 802.11n 20MHz_ANT B

The worst emission of data rate is MCS 08_13Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
1	2412	--	--	--	--	--	--	--	--	30dBm
6	2437	20.73	20.61	20.54	20.46	20.39	20.35	20.30	20.25	30dBm
11	2462	--	--	--	--	--	--	--	--	30dBm

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
1	2412	21.35	--	--	--	--	--	--	--	30dBm
6	2437	21.29	21.27	21.26	21.25	21.06	20.94	20.73	20.51	30dBm
11	2462	20.96	--	--	--	--	--	--	--	30dBm

Product	ASUS Wireless SuperSpeedN Router		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

IEEE 802.11n MCS08 20MHz_2TX ; ANT A					
Channel No.	Frequency (MHz)	Measure Level		Limit (dBm)	Result
		(dBm)	(mW)		
1	2412	21.32	135.52	1Watt= 30 dBm	Pass
6	2437	21.24	133.05	1Watt= 30 dBm	Pass
11	2462	21.13	129.72	1Watt= 30 dBm	Pass

IEEE 802.11n MCS08 20MHz_2TX ; ANT B					
Channel No.	Frequency (MHz)	Measure Level		Limit (dBm)	Result
		(dBm)	(mW)		
1	2412	21.35	136.46	1Watt= 30 dBm	Pass
6	2437	21.29	134.59	1Watt= 30 dBm	Pass
11	2462	20.96	124.74	1Watt= 30 dBm	Pass

IEEE802.11n MCS08 20MHz_2TX ; ANT A + ANT B ; Note 1 & Note 2					
Channel No.	Frequency (MHz)	Measure Level		Limit (dBm)	Result
		(dBm)	(mW)		
1	2412	24.35	271.98	1Watt= 30 dBm	Pass
6	2437	24.28	267.63	1Watt= 30 dBm	Pass
11	2462	24.06	254.46	1Watt= 30 dBm	Pass

Note:

1.Measure Level (ANT A + ANT B)_mW = Measure Level ANT A _mW + Measure Level ANT B_mW

2.Measure Level (ANT A + ANT B)_dBm=10Log [Measure Level (ANT A + ANT B)_mW]

Product	ASUS Wireless SuperSpeedN Router		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

IEEE802.11n 40MHz_ANT AThe worst emission of data rate is MCS08_27Mbps

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
3	2422	--	--	--	--	--	--	--	--	30dBm
6	2437	19.84	19.64	19.42	19.30	19.23	19.16	19.11	19.00	30dBm
9	2452	--	--	--	--	--	--	--	--	30dBm

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
3	2422	20.12	--	--	--	--	--	--	--	30dBm
6	2437	20.08	19.98	19.89	19.82	19.68	19.64	19.56	19.53	30dBm
9	2452	20.04	--	--	--	--	--	--	--	30dBm

Product	ASUS Wireless SuperSpeedN Router		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

IEEE802.11n 40MHz_ANT B

The worst emission of data rate is MCS08_27Mbps

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
3	2422	--	--	--	--	--	--	--	--	30dBm
6	2437	20.21	20.09	19.94	19.76	19.68	19.60	19.53	19.37	30dBm
9	2452	--	--	--	--	--	--	--	--	30dBm

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
3	2422	20.34	--	--	--	--	--	--	--	30dBm
6	2437	20.24	20.12	19.99	19.93	19.82	19.57	19.51	19.38	30dBm
9	2452	20.13	--	--	--	--	--	--	--	30dBm

Product	ASUS Wireless SuperSpeedN Router		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

IEEE802.11n ; MCS08 40MHz_2TX ; ANT A					
Channel No.	Frequency (MHz)	Measure Level		Limit (dBm)	Result
		(dBm)	(mW)		
3	2422	20.12	102.80	1Watt= 30 dBm	Pass
6	2437	20.08	101.86	1Watt= 30 dBm	Pass
9	2452	20.04	100.93	1Watt= 30 dBm	Pass

IEEE802.11n ; MCS08 40MHz_2TX ; ANT B					
Channel No.	Frequency (MHz)	Measure Level		Limit (dBm)	Result
		(dBm)	(mW)		
3	2422	20.34	108.14	1Watt= 30 dBm	Pass
6	2437	20.24	105.68	1Watt= 30 dBm	Pass
9	2452	20.13	103.04	1Watt= 30 dBm	Pass

IEEE802.11n ; MCS08 40MHz_2TX ; ANT A+ ANT B ; Note 1 & Note 2					
Channel No.	Frequency (MHz)	Measure Level		Limit (dBm)	Result
		(dBm)	(mW)		
3	2422	23.24	210.95	1Watt= 30 dBm	Pass
6	2437	23.17	204.54	1Watt= 30 dBm	Pass
9	2452	23.10	203.96	1Watt= 30 dBm	Pass

Note:

1.Measure Level (ANT A + ANT B)_mW = Measure Level ANT A _mW + Measure Level ANT B_mW

2.Measure Level (ANT A + ANT B)_dBm=10Log [Measure Level (ANT A + ANT B)_mW]

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

Radiated Emission / CB1

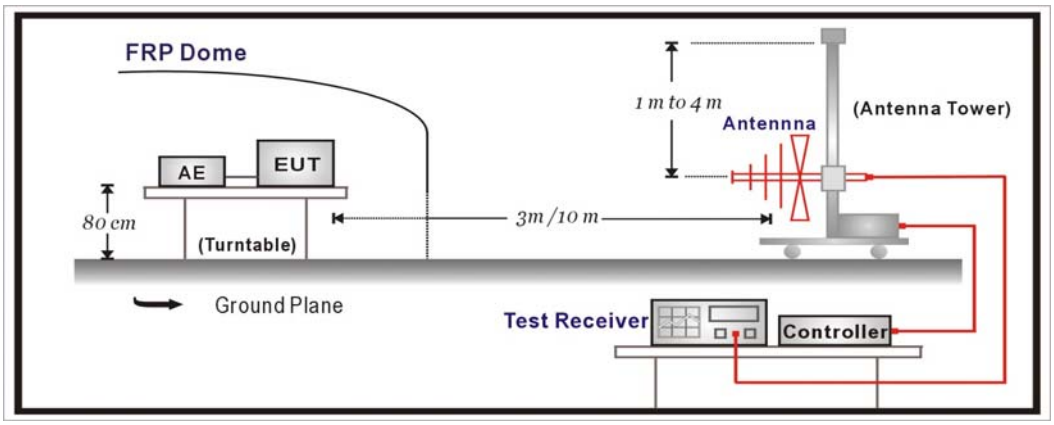
Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Bilog Antenna	Schaffner Chase	CBL6112B	2895	2008/09/03
Horn Antenna	Schwarzback	9120D743	D69250	2009/03/16
Pre-Amplifier	Quietek	AP-025C	CHM0608021	2008/11/13
Pre-Amplifier	HP	8449B	3008A01123	2008/11/15
Spectrum Analyzer	R & S	FSP40	100005	2008/08/25

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

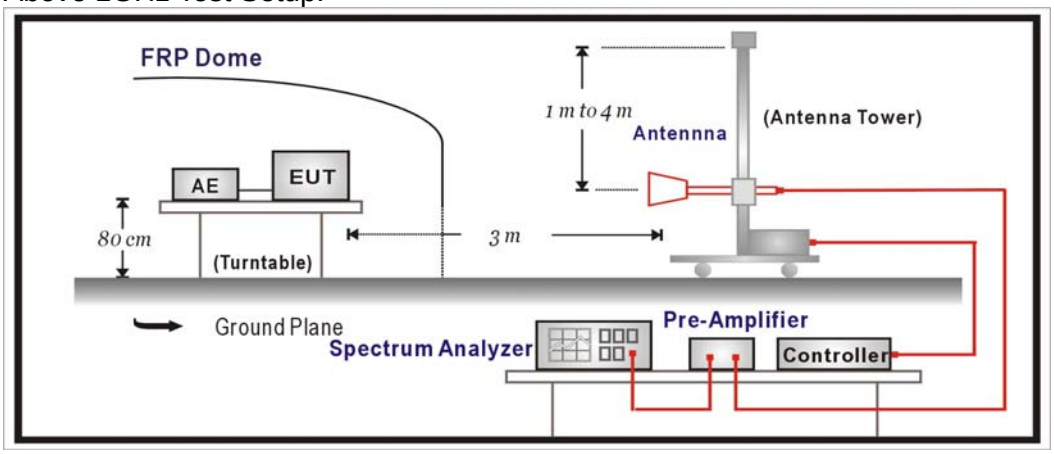
2. Last Cal showing “N/A” means it is used to Pre-test, not for final test.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

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

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.
The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 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 is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2003 on radiated measurement.
The resolution bandwidth below 1GHz setting on the field strength meter is 120 KHz and above 1GHz is 1MHz.
The frequency range from 30MHz to 10th harminics is checked.

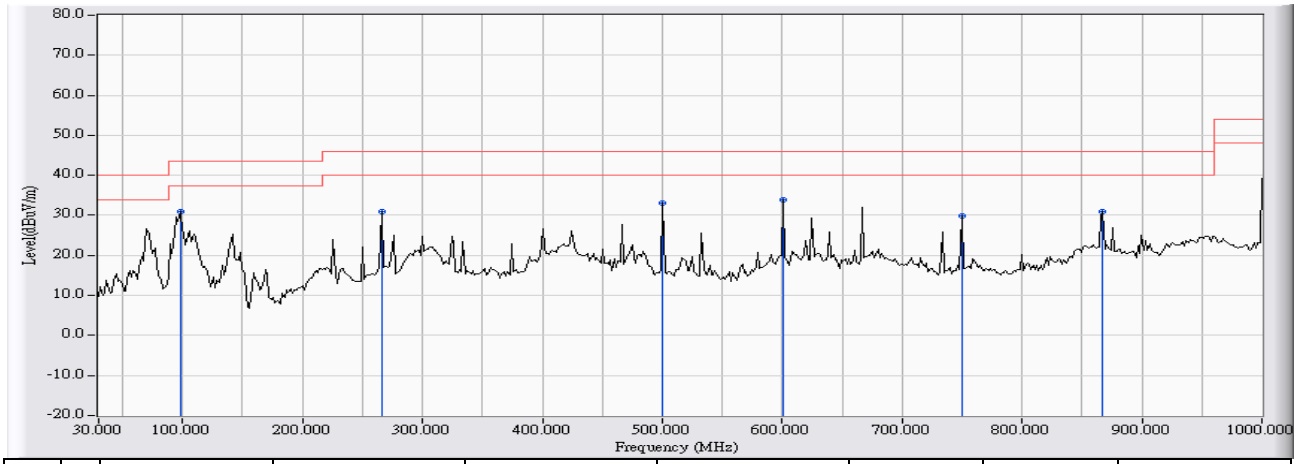
4.5. Uncertainty

The measurement uncertainty
30MHz～1GHz as ±3.19dB
1GHz～26.5GHz as ±3.9dB

4.6. Test Result

30MHz-1GHz Spurious

Site : CB1	**Time : 2009/06/26 - 10:48**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30-1G(2009) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - B - 2437**

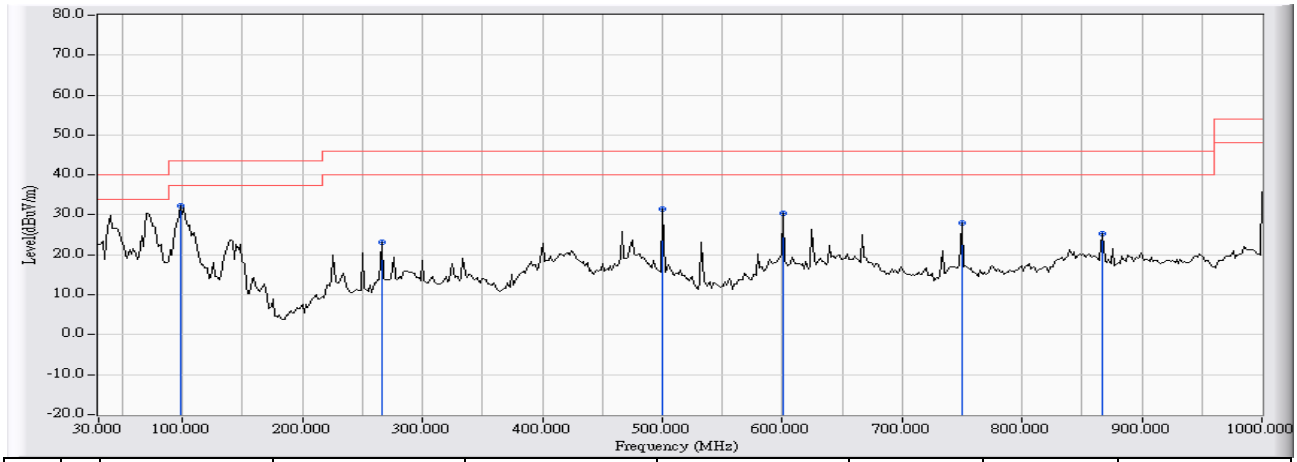


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		97.900	-15.178	46.231	31.053	-12.447	43.500	QUASIPEAK
2		266.033	-11.999	42.945	30.946	-15.054	46.000	QUASIPEAK
3		500.450	-7.421	40.555	33.135	-12.865	46.000	QUASIPEAK
4	*	600.683	-2.695	36.486	33.791	-12.209	46.000	QUASIPEAK
5		749.417	-6.435	36.256	29.822	-16.178	46.000	QUASIPEAK
6		867.433	-0.132	31.137	31.005	-14.995	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 : 2009/06/26 - 10:51**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30-1G(2009) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - B - 2437**

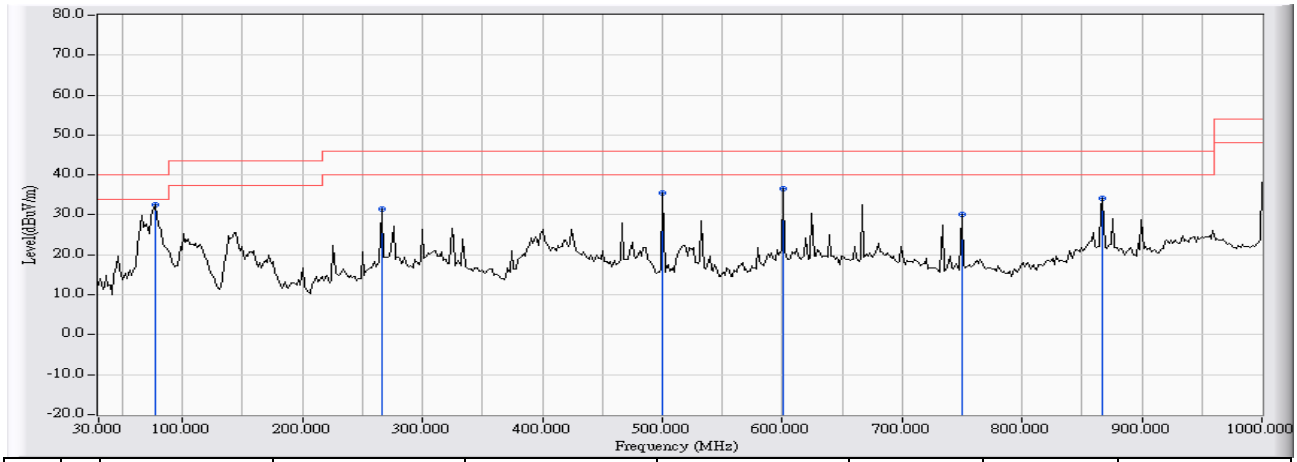


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	97.900	-12.385	44.655	32.271	-11.229	43.500	QUASIPEAK
2		266.033	-16.413	39.509	23.095	-22.905	46.000	QUASIPEAK
3		500.450	-6.739	38.309	31.571	-14.429	46.000	QUASIPEAK
4		600.683	-2.987	33.303	30.316	-15.684	46.000	QUASIPEAK
5		749.417	-5.685	33.540	27.856	-18.144	46.000	QUASIPEAK
6		867.433	-2.903	28.258	25.355	-20.645	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 : 2009/06/27 - 09:45**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30-1G(2009) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - G - 2437**

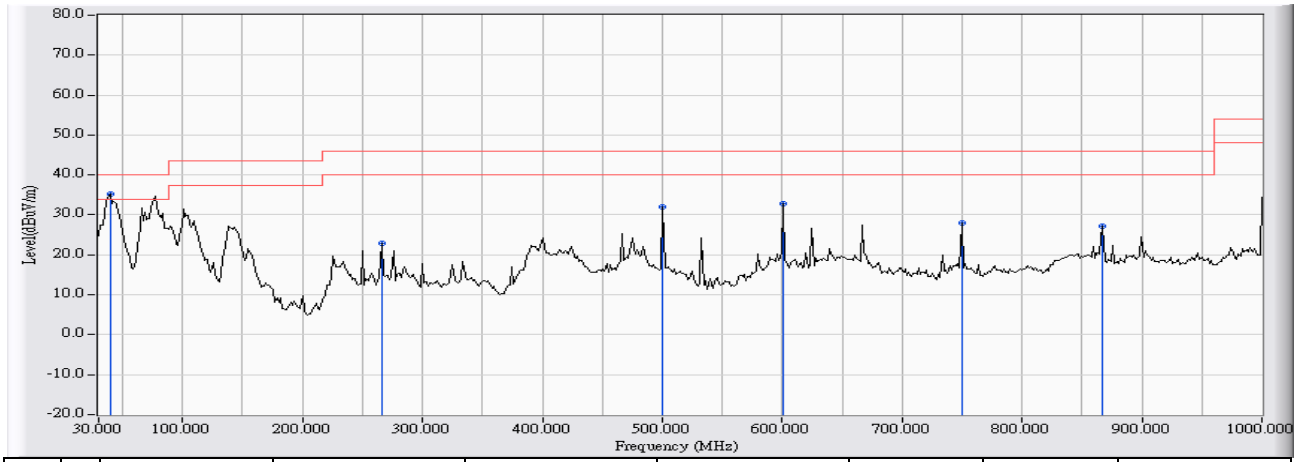


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	76.883	-15.685	48.171	32.486	-7.514	40.000	QUASIPEAK
2		266.033	-11.999	43.597	31.598	-14.402	46.000	QUASIPEAK
3		500.450	-7.421	42.952	35.532	-10.468	46.000	QUASIPEAK
4		600.683	-2.695	39.361	36.666	-9.334	46.000	QUASIPEAK
5		749.417	-6.435	36.577	30.143	-15.857	46.000	QUASIPEAK
6		867.433	-0.132	34.168	34.036	-11.964	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 : 2009/06/27 - 09:49**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30-1G(2009) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - G - 2437**

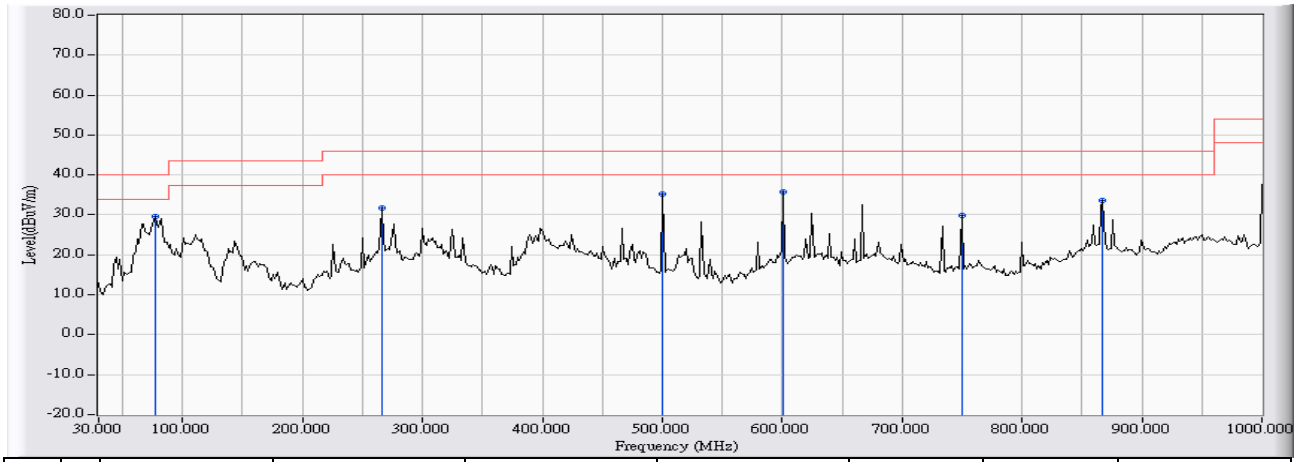


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	39.700	-8.933	44.280	35.348	-4.652	40.000	QUASIPEAK
2		266.033	-16.413	39.194	22.780	-23.220	46.000	QUASIPEAK
3		500.450	-6.739	38.619	31.881	-14.119	46.000	QUASIPEAK
4		600.683	-2.987	35.711	32.724	-13.276	46.000	QUASIPEAK
5		749.417	-5.685	33.764	28.080	-17.920	46.000	QUASIPEAK
6		867.433	-2.903	30.179	27.276	-18.724	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 : 2009/06/27 - 09:55**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30-1G(2009) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - N_20MHz - 2437**

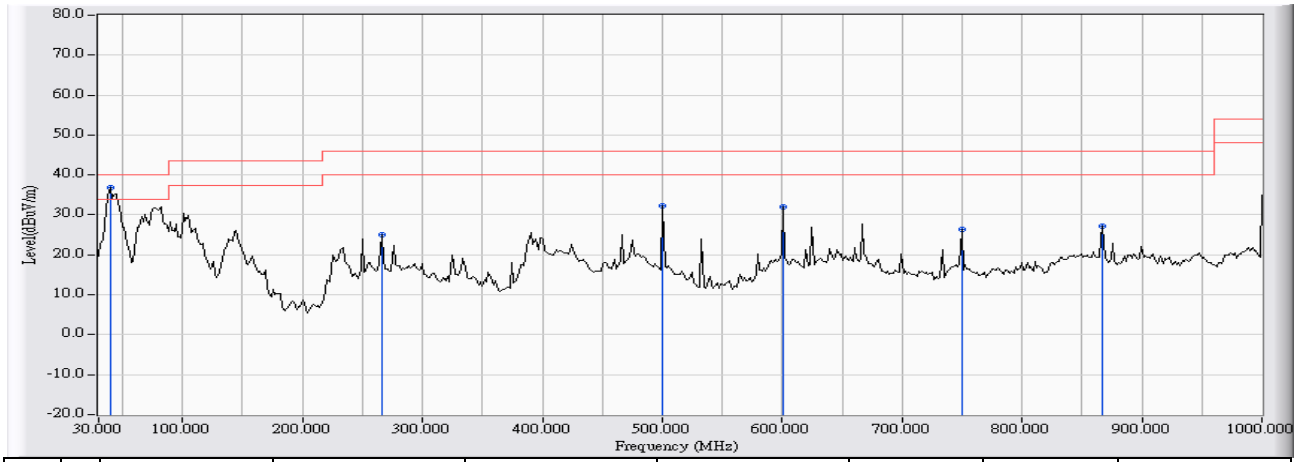


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		76.883	-15.685	45.215	29.530	-10.470	40.000	QUASIPEAK
2		266.033	-11.999	43.692	31.693	-14.307	46.000	QUASIPEAK
3		500.450	-7.421	42.618	35.198	-10.802	46.000	QUASIPEAK
4	*	600.683	-2.695	38.395	35.700	-10.300	46.000	QUASIPEAK
5		749.417	-6.435	36.202	29.768	-16.232	46.000	QUASIPEAK
6		867.433	-0.132	33.618	33.486	-12.514	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 : 2009/06/27 - 09:58**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30-1G(2009) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - N_20MHz - 2437**

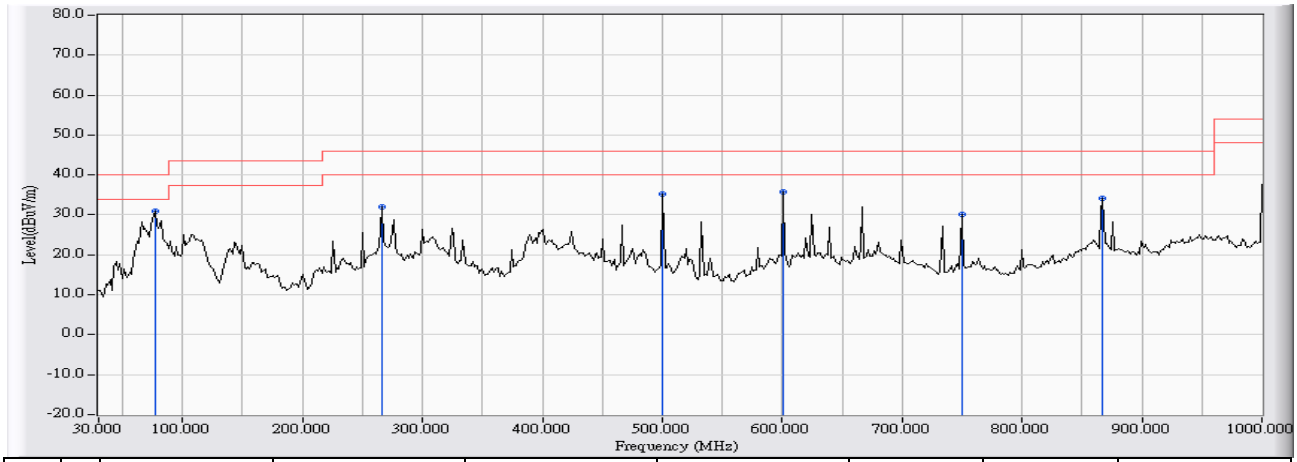


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	39.700	-8.933	45.655	36.723	-3.277	40.000	QUASIPEAK
2		266.033	-16.413	41.503	25.089	-20.911	46.000	QUASIPEAK
3		500.450	-6.739	39.123	32.385	-13.615	46.000	QUASIPEAK
4		600.683	-2.987	34.985	31.998	-14.002	46.000	QUASIPEAK
5		749.417	-5.685	32.075	26.391	-19.609	46.000	QUASIPEAK
6		867.433	-2.903	30.193	27.290	-18.710	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 : 2009/06/27 - 10:03**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30-1G(2009) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - N_40MHz - 2437**

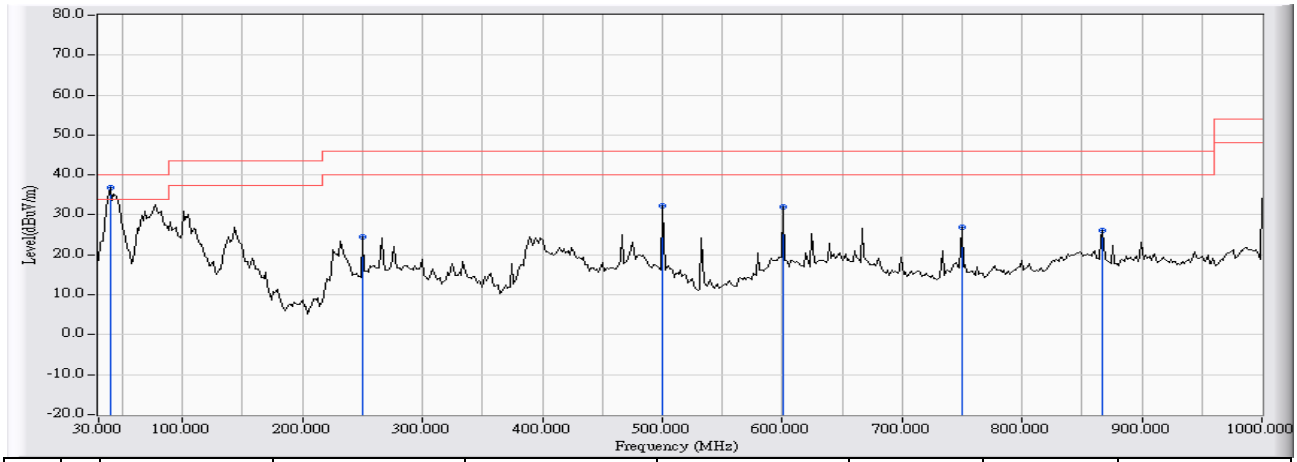


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	76.883	-15.685	46.680	30.995	-9.005	40.000	QUASIPEAK
2		266.033	-11.999	44.087	32.088	-13.912	46.000	QUASIPEAK
3		500.450	-7.421	42.676	35.256	-10.744	46.000	QUASIPEAK
4		600.683	-2.695	38.336	35.641	-10.359	46.000	QUASIPEAK
5		749.417	-6.435	36.533	30.099	-15.901	46.000	QUASIPEAK
6		867.433	-0.132	34.207	34.075	-11.925	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 : 2009/06/27 - 10:06**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30-1G(2009) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - N_40MHz - 2437**



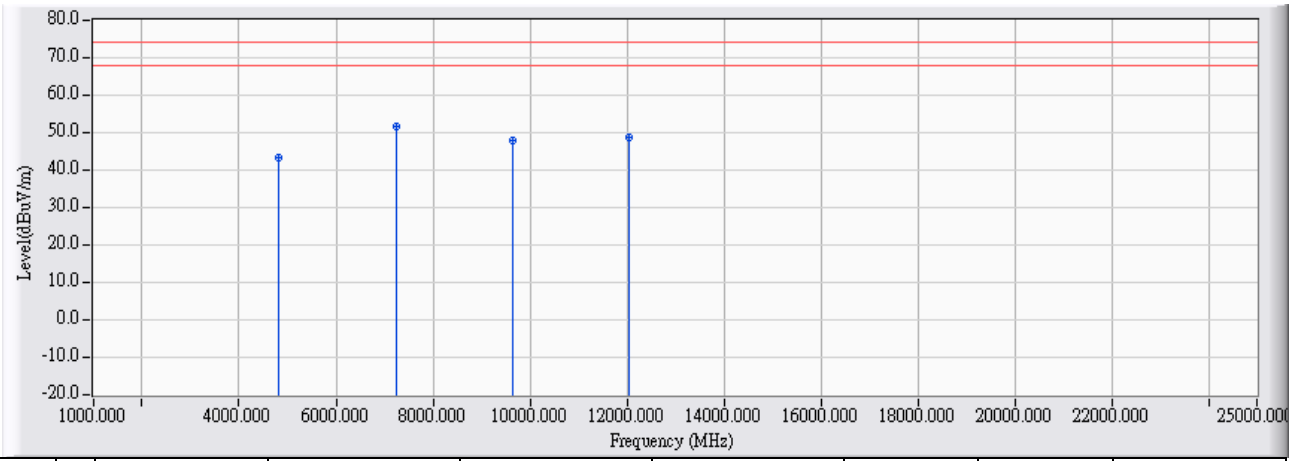
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	39.700	-8.933	45.713	36.781	-3.219	40.000	QUASIPEAK
2		249.867	-14.145	38.716	24.571	-21.429	46.000	QUASIPEAK
3		500.450	-6.739	39.087	32.349	-13.651	46.000	QUASIPEAK
4		600.683	-2.987	35.093	32.106	-13.894	46.000	QUASIPEAK
5		749.417	-5.685	32.649	26.965	-19.035	46.000	QUASIPEAK
6		867.433	-2.903	29.025	26.122	-19.878	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 : 2009/06/29 - 14:22**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - B - 2412MHz**

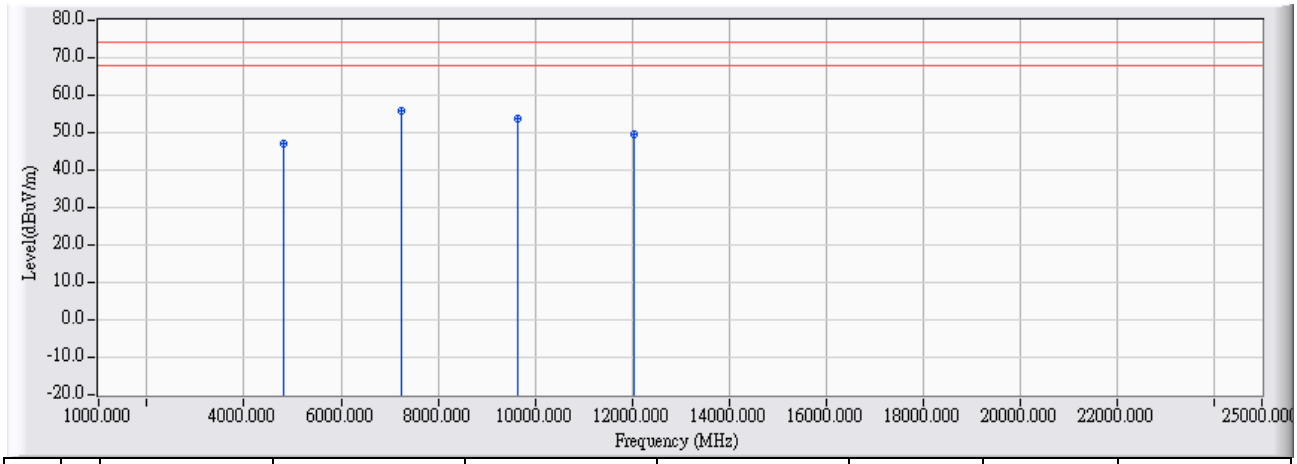


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.030	2.141	41.380	43.521	-30.479	74.000	PEAK
2	*	7236.900	7.184	44.370	51.554	-22.446	74.000	PEAK
3		9648.010	10.117	37.780	47.897	-26.103	74.000	PEAK
4		12061.130	14.694	34.170	48.864	-25.136	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 14:29**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - B - 2412MHz**

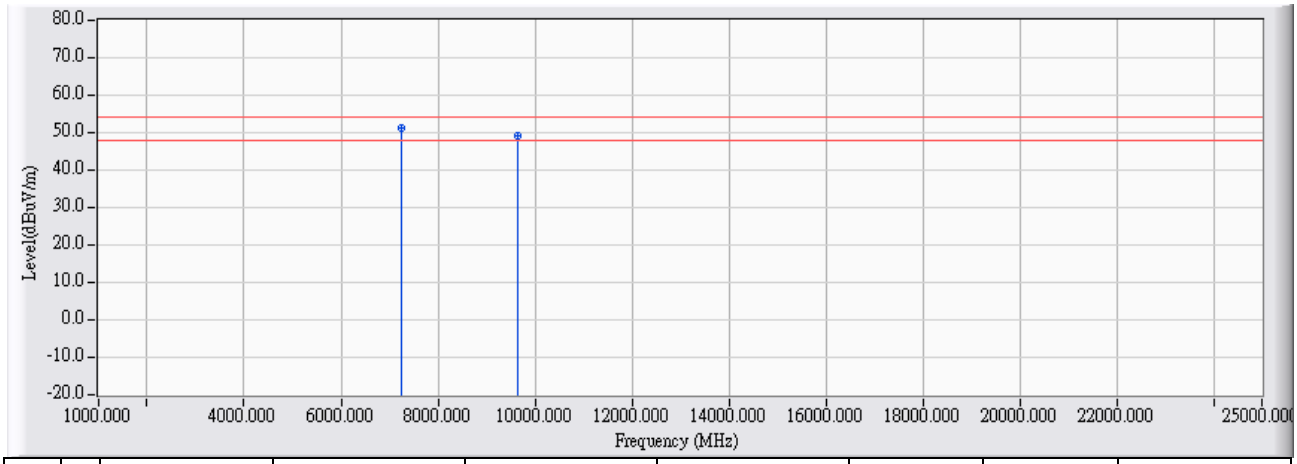


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.110	2.033	45.220	47.252	-26.748	74.000	PEAK
2	*	7236.170	7.262	48.610	55.873	-18.127	74.000	PEAK
3		9648.130	10.335	43.480	53.816	-20.184	74.000	PEAK
4		12061.130	13.587	36.010	49.596	-24.404	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 14:30**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - B - 2412MHz**

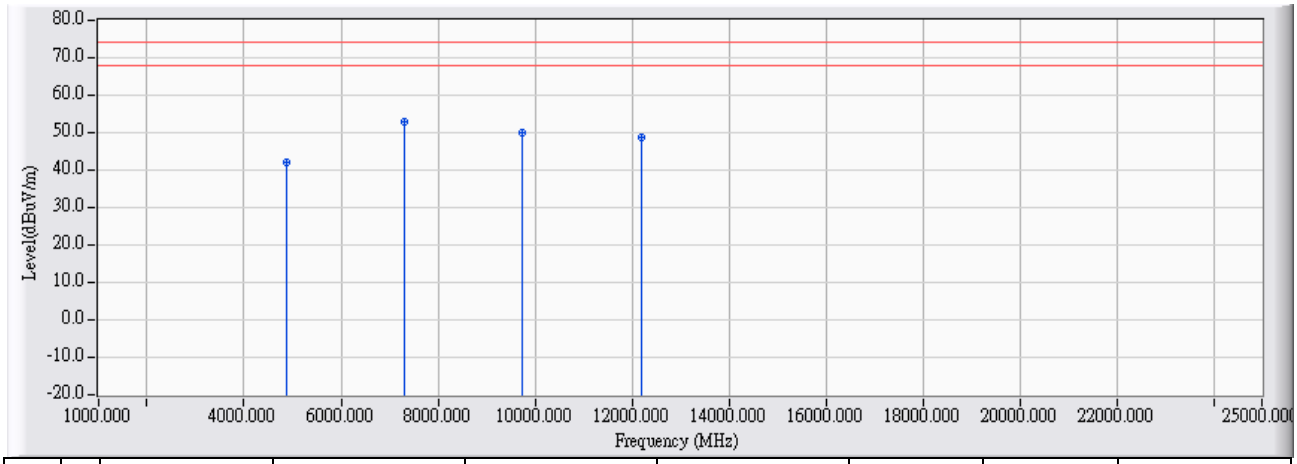


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7236.830	7.266	43.870	51.135	-2.865	54.000	AVERAGE
2		9648.070	10.335	38.660	48.995	-5.005	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 14:54**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - B - 2437MHz**

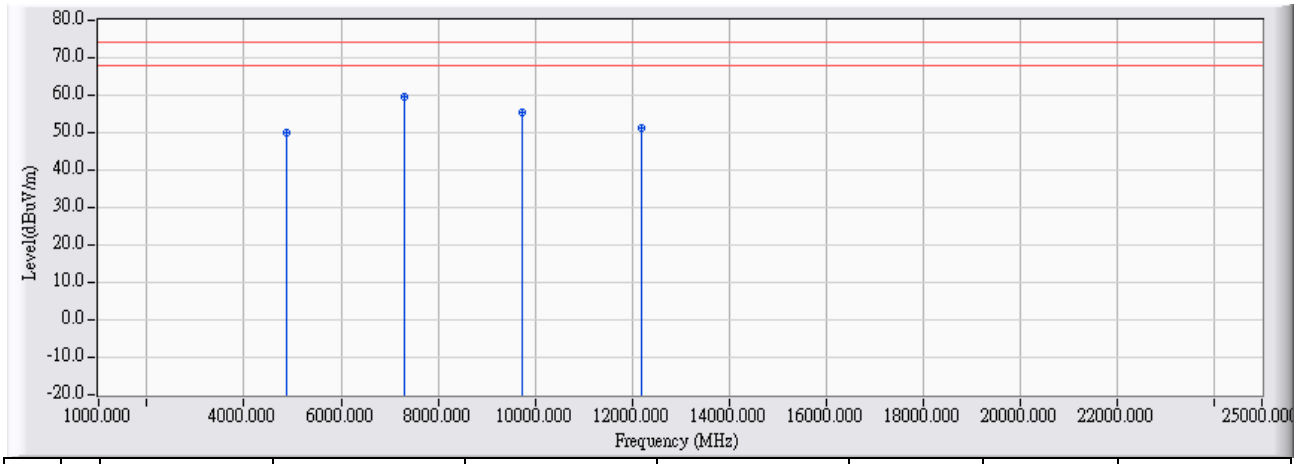


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.010	2.118	40.130	42.248	-31.752	74.000	PEAK
2	*	7311.970	7.784	44.970	52.754	-21.246	74.000	PEAK
3		9747.930	10.684	39.470	50.153	-23.847	74.000	PEAK
4		12186.600	14.061	34.560	48.621	-25.379	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 15:00**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - B - 2437MHz**

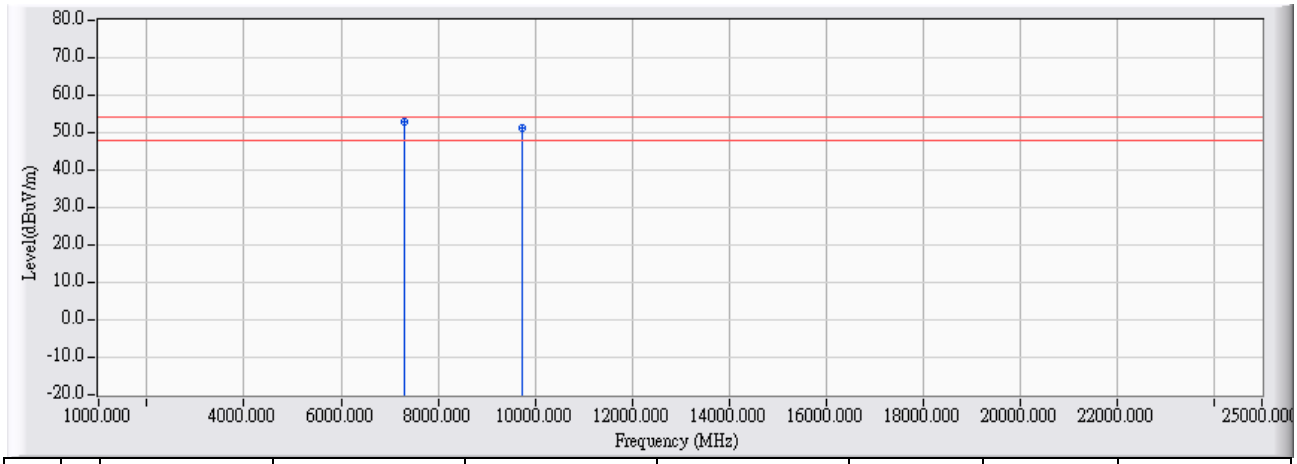


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.030	2.079	47.840	49.919	-24.081	74.000	PEAK
2	*	7312.000	7.562	51.960	59.522	-14.478	74.000	PEAK
3		9748.100	10.842	44.670	55.512	-18.488	74.000	PEAK
4		12186.510	12.978	38.180	51.158	-22.842	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 15:05**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - B - 2437MHz**

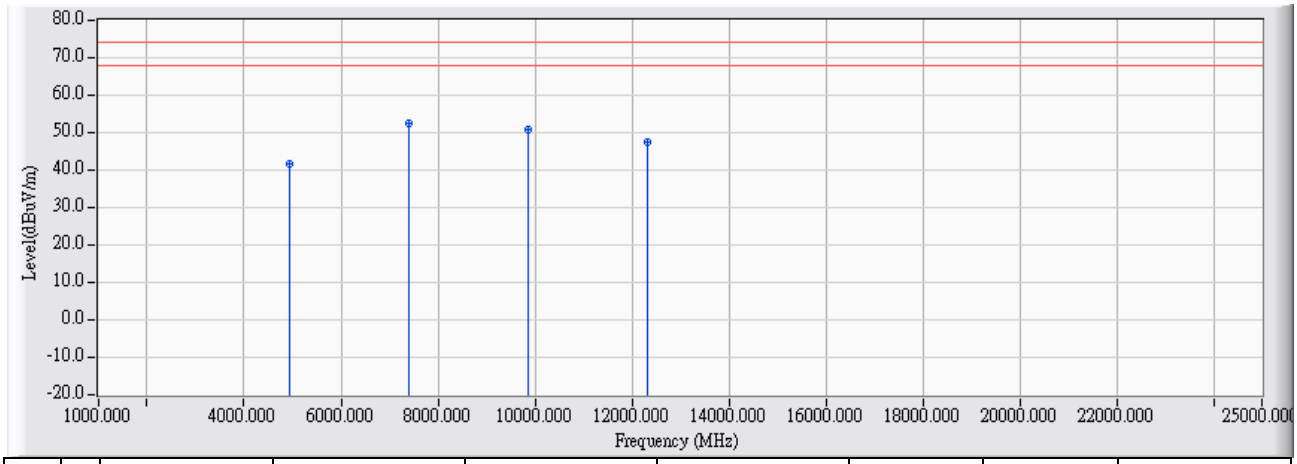


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7311.750	7.561	45.510	53.071	-0.929	54.000	AVERAGE
2		9748.030	10.842	40.470	51.311	-2.689	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 15:19**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - B - 2462MHz**

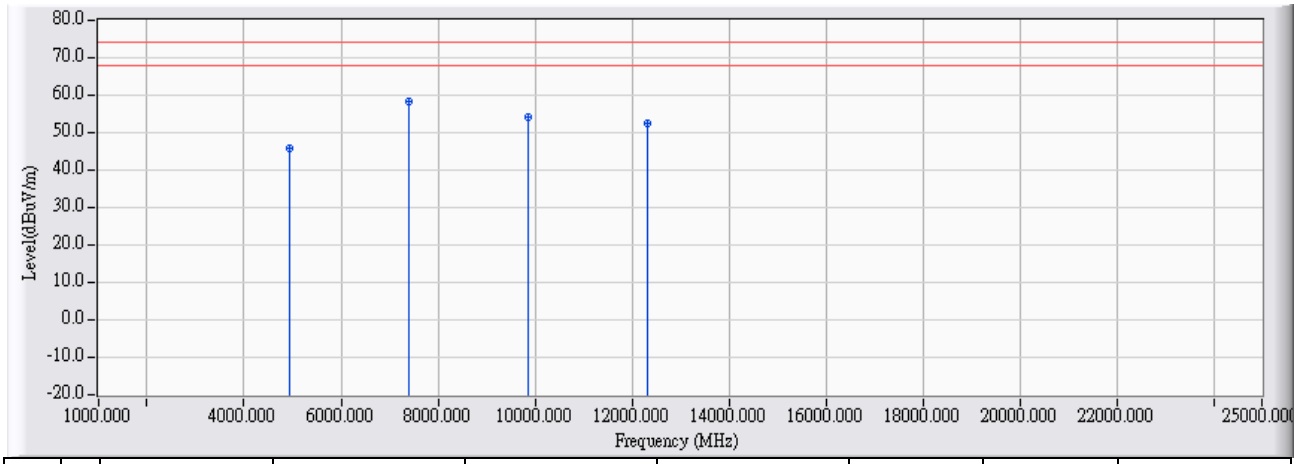


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4923.970	2.174	39.450	41.624	-32.376	74.000	PEAK
2	*	7386.230	8.405	44.210	52.615	-21.385	74.000	PEAK
3		9848.100	11.175	39.560	50.735	-23.265	74.000	PEAK
4		12311.400	12.941	34.650	47.591	-26.409	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 15:25**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - B - 2462MHz**

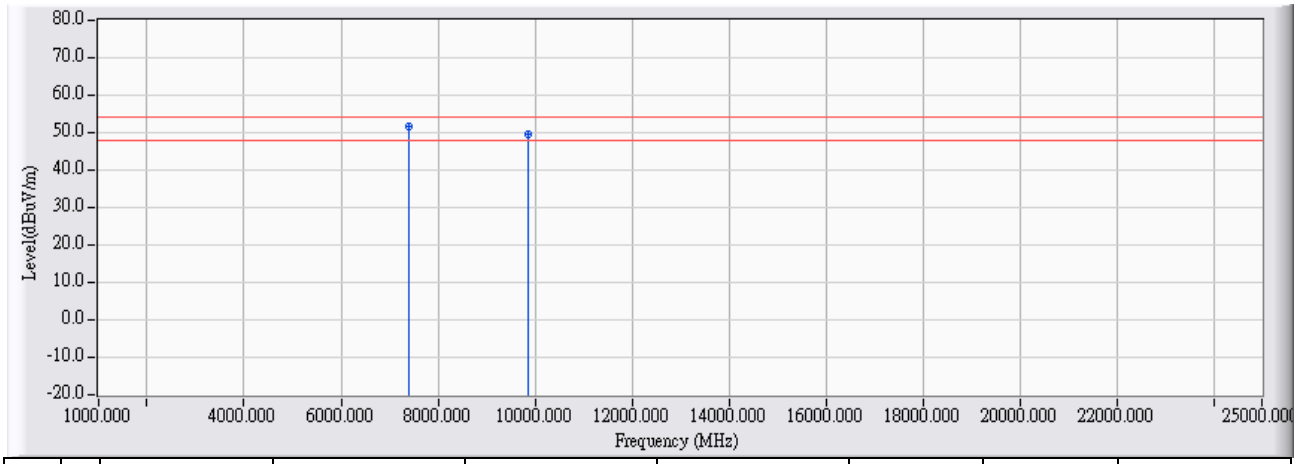


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4923.920	2.186	43.690	45.876	-28.124	74.000	PEAK
2	*	7386.830	7.886	50.400	58.285	-15.715	74.000	PEAK
3		9847.940	11.283	42.750	54.033	-19.967	74.000	PEAK
4		12311.280	11.861	40.730	52.592	-21.408	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 15:31**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - B - 2462MHz**

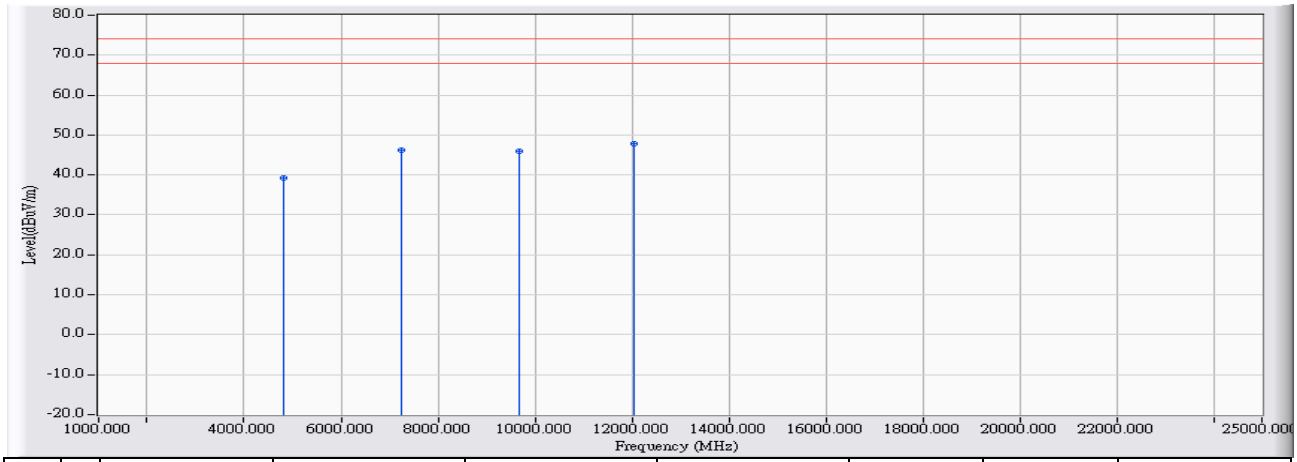


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7386.830	7.886	43.950	51.835	-2.165	54.000	AVERAGE
2		9848.080	11.283	38.490	49.773	-4.227	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 15:45**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - G - 2412MHz**

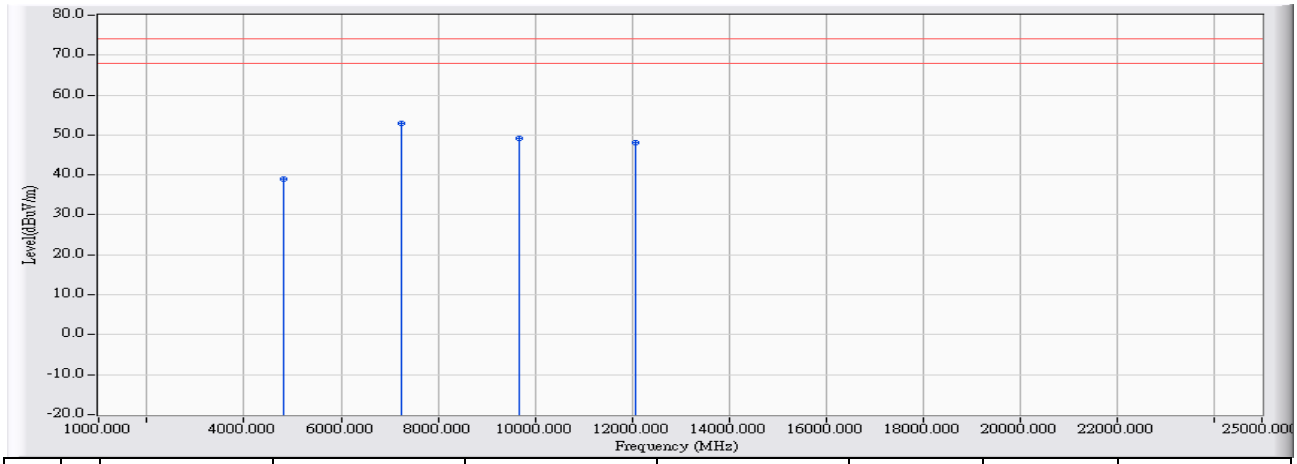


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4822.450	2.141	37.030	39.170	-34.830	74.000	PEAK
2		7243.050	7.234	39.010	46.244	-27.756	74.000	PEAK
3		9663.300	10.232	35.690	45.922	-28.078	74.000	PEAK
4	*	12060.010	14.694	33.240	47.934	-26.066	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 15:50**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - G - 2412MHz**

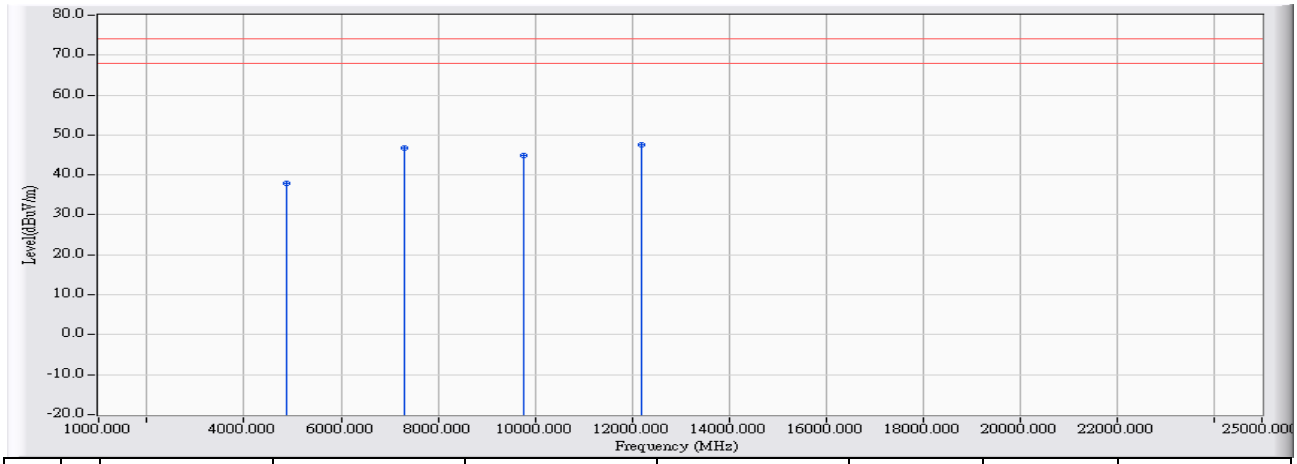


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4822.510	2.030	37.020	39.050	-34.950	74.000	PEAK
2	*	7243.060	7.290	45.510	52.801	-21.199	74.000	PEAK
3		9663.240	10.435	38.760	49.195	-24.805	74.000	PEAK
4		12070.050	13.583	34.580	48.163	-25.837	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 16:07**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - G - 2437MHz**

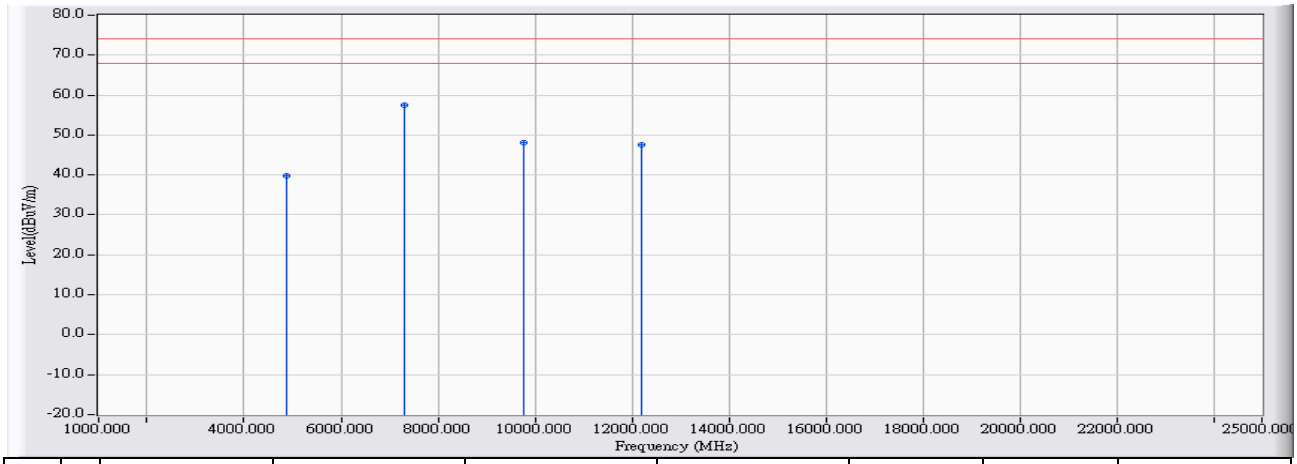


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4879.500	2.119	35.830	37.949	-36.051	74.000	PEAK
2		7314.800	7.810	38.960	46.769	-27.231	74.000	PEAK
3		9755.350	10.721	34.200	44.920	-29.080	74.000	PEAK
4	*	12196.250	13.971	33.580	47.551	-26.449	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 16:16**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - G - 2437MHz**

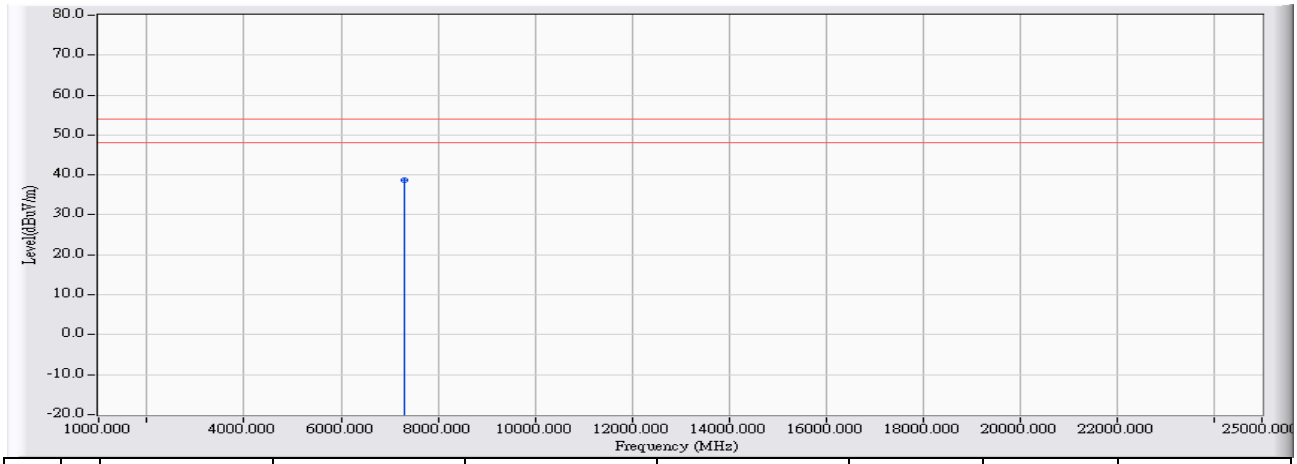


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4879.210	2.085	37.720	39.805	-34.195	74.000	PEAK
2	*	7317.300	7.586	49.770	57.357	-16.643	74.000	PEAK
3		9755.370	10.872	37.180	48.051	-25.949	74.000	PEAK
4		12196.300	12.885	34.750	47.636	-26.364	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 16:20**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - G - 2437MHz**

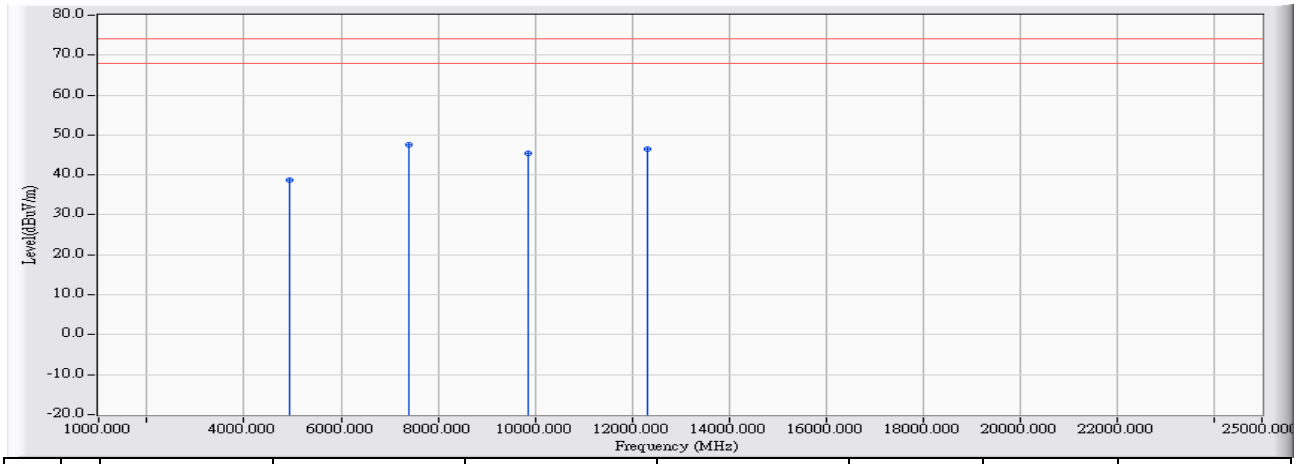


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7316.300	7.581	31.200	38.782	-15.218	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 16:29**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - G - 2462MHz**

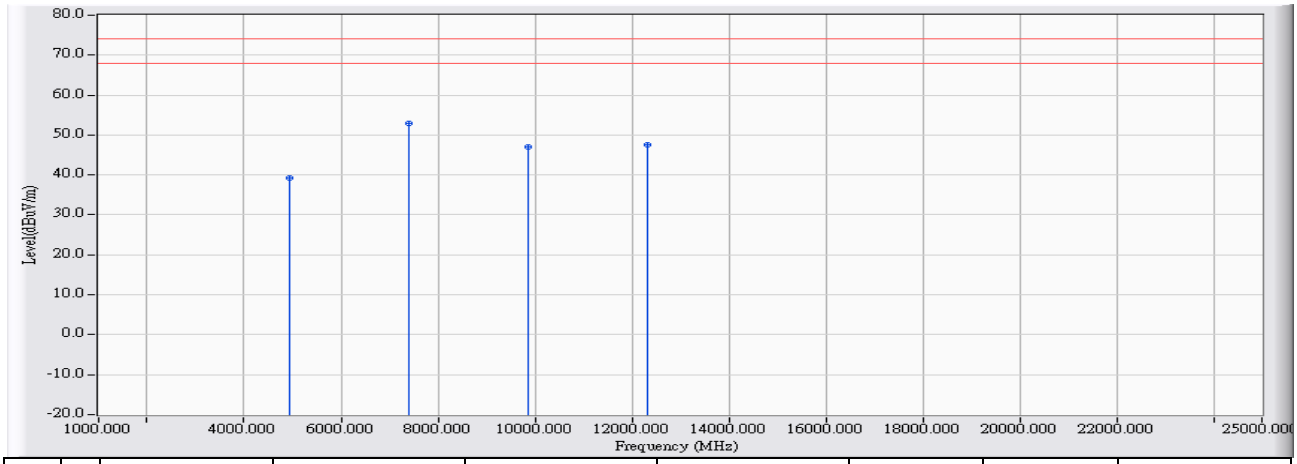


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4926.500	2.183	36.620	38.803	-35.197	74.000	PEAK
2	*	7394.700	8.485	38.980	47.465	-26.535	74.000	PEAK
3		9846.600	11.169	34.380	45.549	-28.451	74.000	PEAK
4		12320.500	12.884	33.570	46.454	-27.546	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 16:35**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - G - 2462MHz**

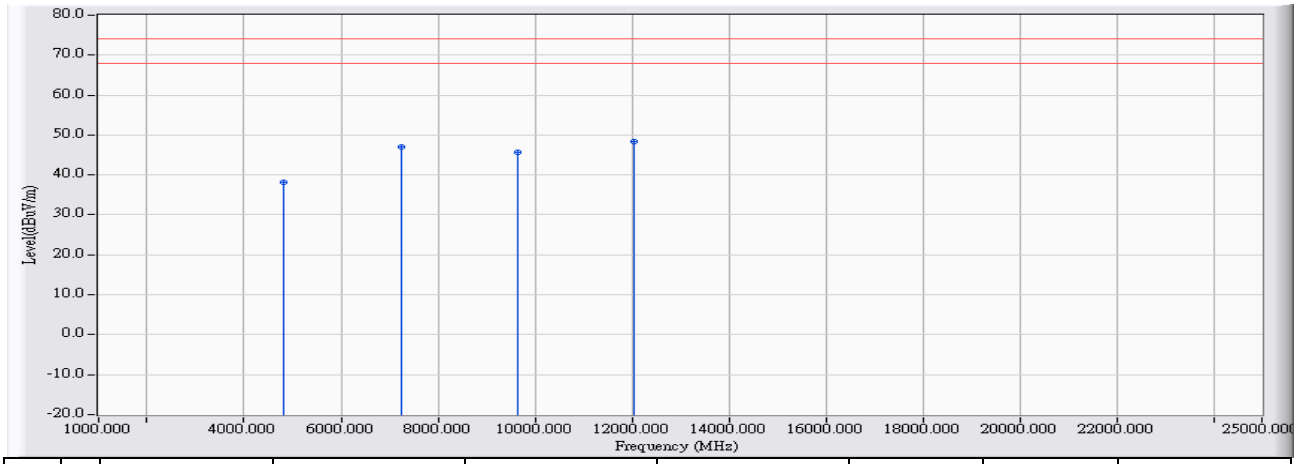


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4926.340	2.198	37.140	39.338	-34.662	74.000	PEAK
2	*	7394.860	7.929	44.990	52.919	-21.081	74.000	PEAK
3		9846.770	11.279	35.660	46.939	-27.061	74.000	PEAK
4		12320.570	11.802	35.830	47.632	-26.368	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 16:50**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - N_20MHz - 2412MHz**

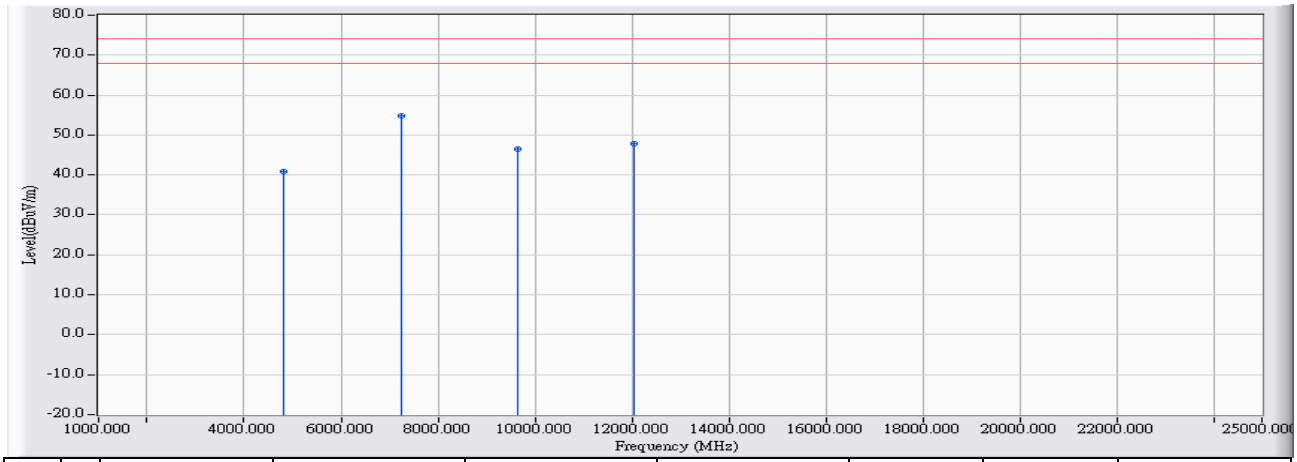


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.700	2.141	36.080	38.221	-35.779	74.000	PEAK
2		7241.400	7.220	39.870	47.091	-26.909	74.000	PEAK
3		9654.400	10.171	35.620	45.792	-28.208	74.000	PEAK
4	*	12060.210	14.695	33.800	48.494	-25.506	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 17:02**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - N_20MHz - 2412MHz**

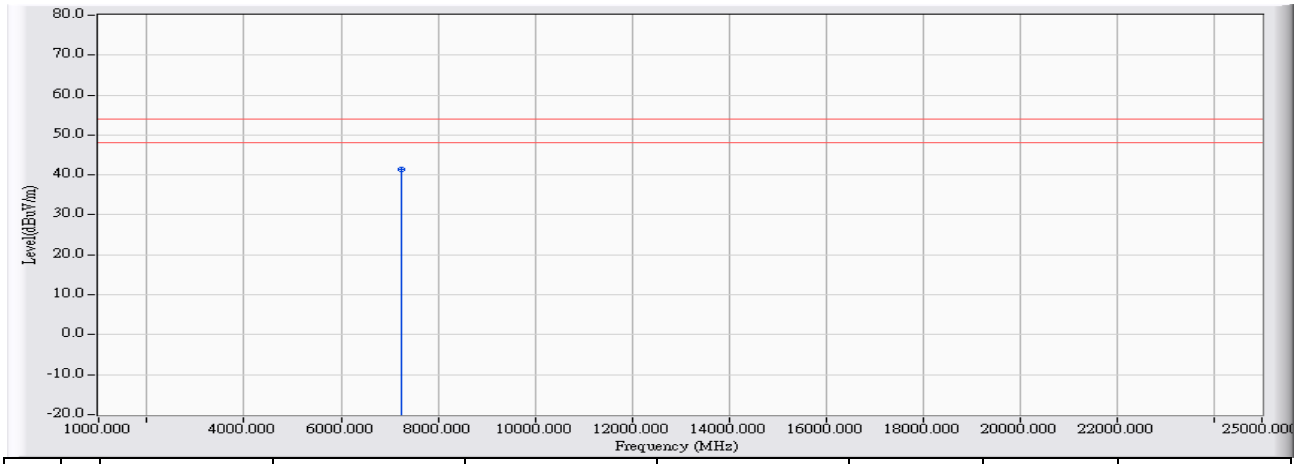


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.670	2.032	38.940	40.972	-33.028	74.000	PEAK
2	*	7241.340	7.283	47.410	54.694	-19.306	74.000	PEAK
3		9654.400	10.383	36.140	46.524	-27.476	74.000	PEAK
4		12060.170	13.587	34.290	47.877	-26.123	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 17:07**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - N_20MHz - 2412MHz**

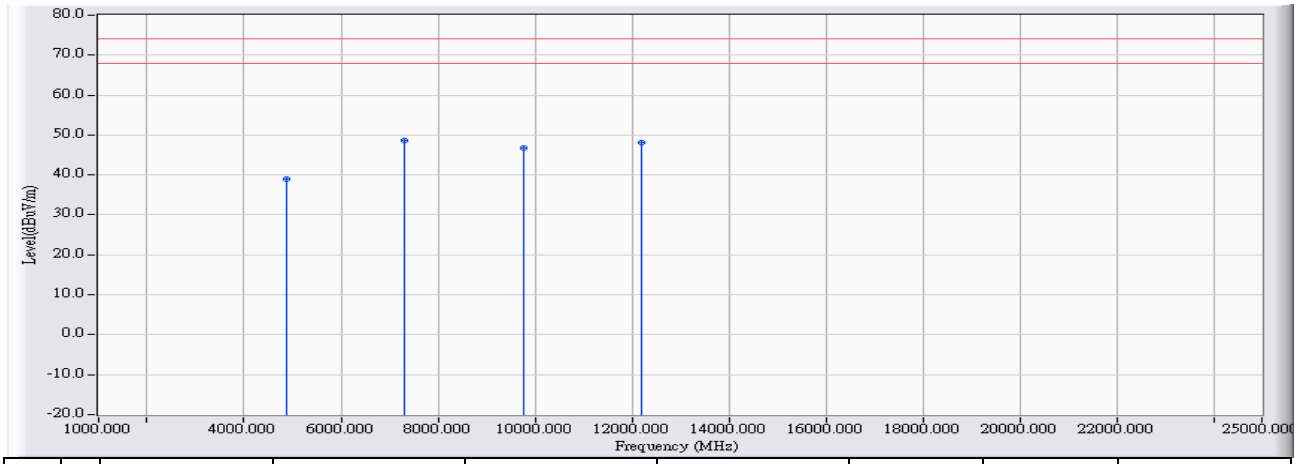


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7238.300	7.271	34.140	41.411	-12.589	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 17:15**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - N_20MHz - 2437MHz**

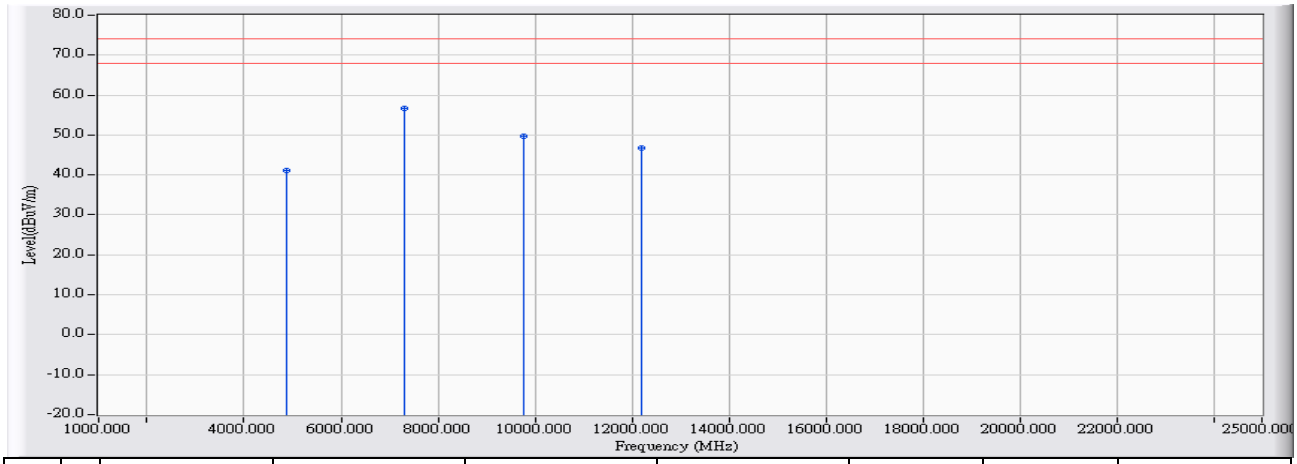


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4878.230	2.119	36.740	38.859	-35.141	74.000	PEAK
2	*	7309.420	7.761	40.980	48.742	-25.258	74.000	PEAK
3		9754.700	10.716	35.920	46.637	-27.363	74.000	PEAK
4		12193.200	13.999	34.190	48.190	-25.810	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 17:20**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - N_20MHz - 2437MHz**

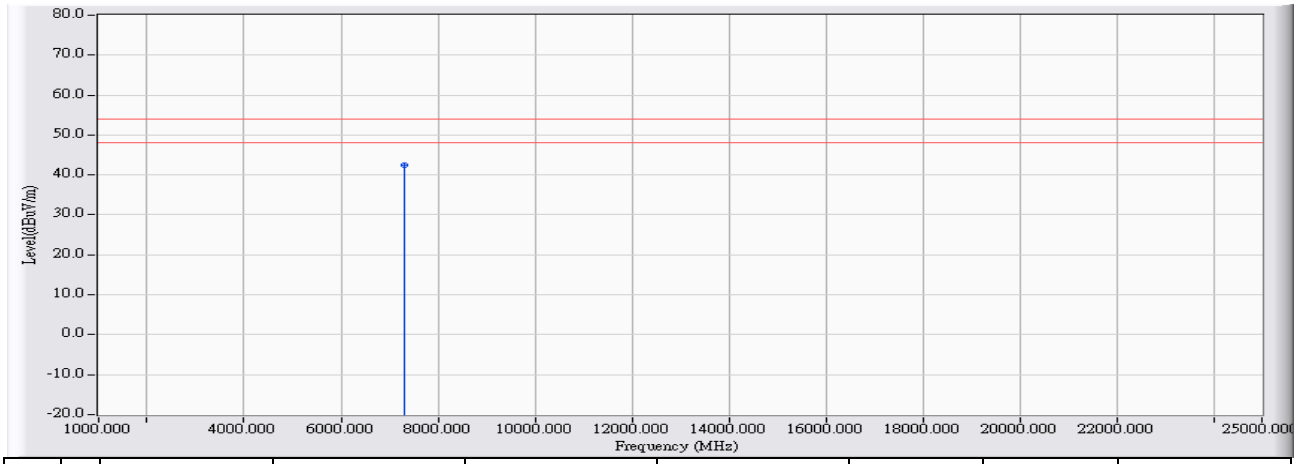


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4878.310	2.085	39.130	41.214	-32.786	74.000	PEAK
2	*	7309.510	7.551	49.210	56.761	-17.239	74.000	PEAK
3		9754.640	10.868	38.760	49.628	-24.372	74.000	PEAK
4		12193.140	12.915	33.770	46.685	-27.315	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 17:24**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - N_20MHz - 2437MHz**

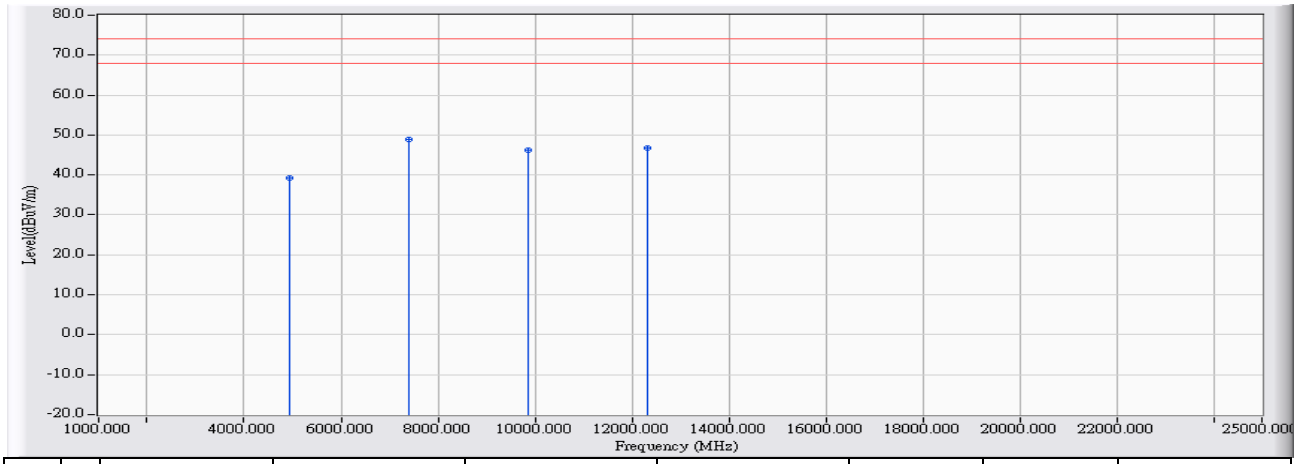


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7315.800	7.580	34.830	42.410	-11.590	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 17:31**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - N_20MHz - 2462MHz**

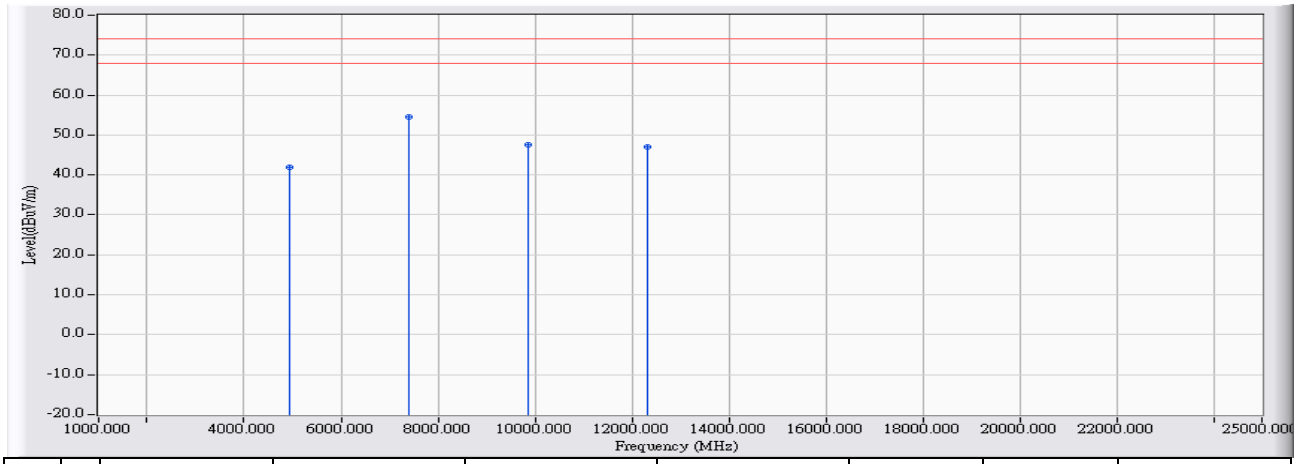


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.040	2.175	36.990	39.165	-34.835	74.000	PEAK
2	*	7386.500	8.407	40.580	48.988	-25.012	74.000	PEAK
3		9846.700	11.169	34.930	46.099	-27.901	74.000	PEAK
4		12310.340	12.948	33.850	46.798	-27.202	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 17:36**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - N_20MHz - 2462MHz**

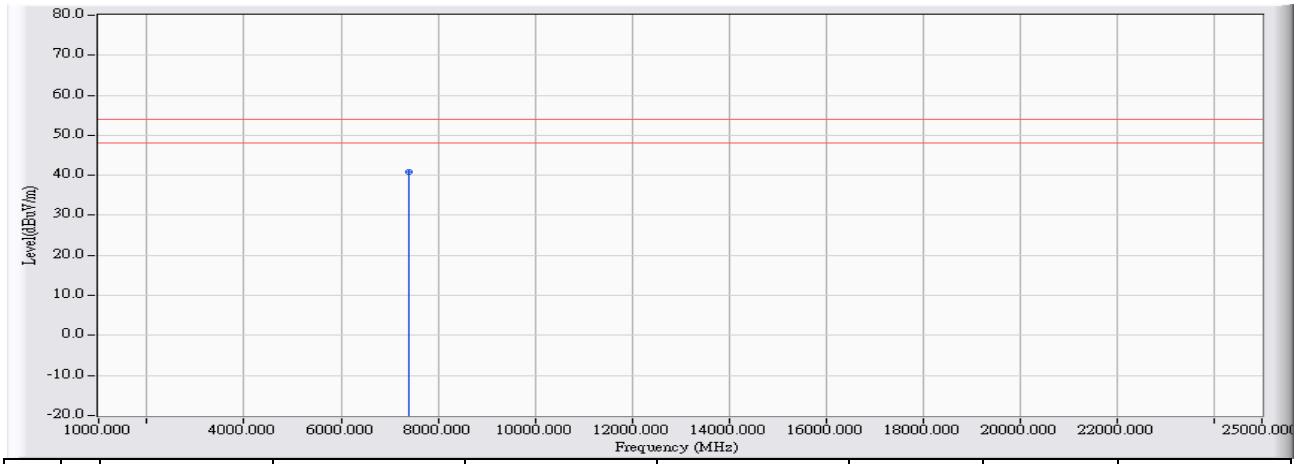


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.620	2.189	39.840	42.029	-31.971	74.000	PEAK
2	*	7386.470	7.883	46.580	54.463	-19.537	74.000	PEAK
3		9846.520	11.278	36.350	47.628	-26.372	74.000	PEAK
4		12310.110	11.870	35.170	47.039	-26.961	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 17:40**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - N_20MHz - 2462MHz**

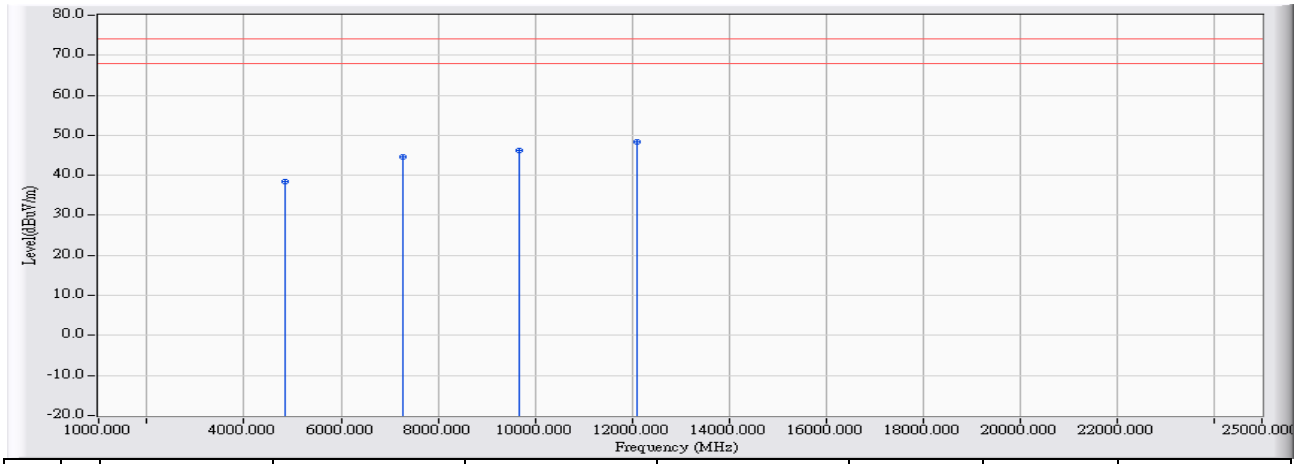


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7386.900	7.886	33.060	40.946	-13.054	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 17:48**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - N_40MHz - 2422MHz**

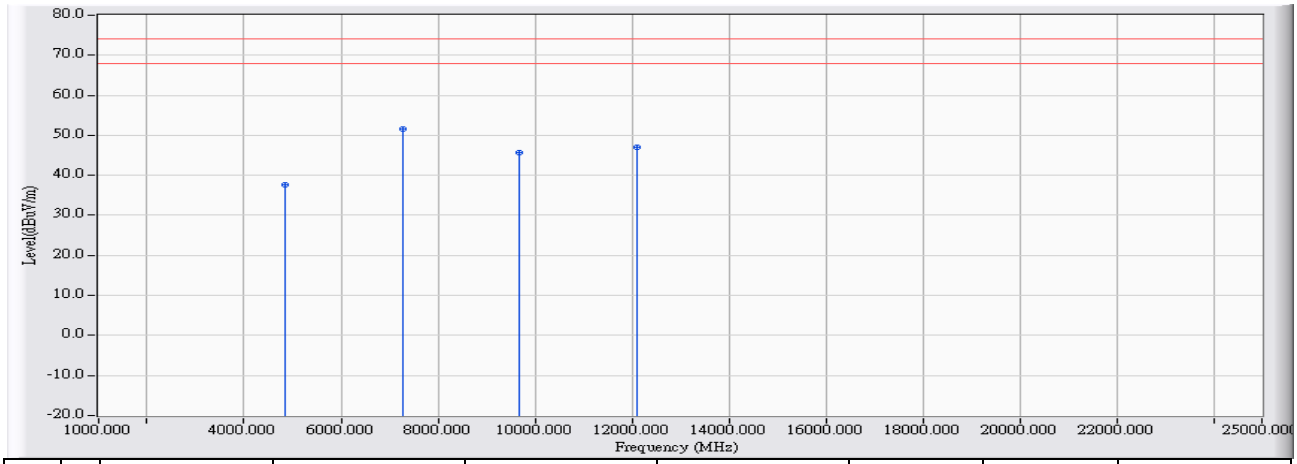


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4846.800	2.126	36.360	38.486	-35.514	74.000	PEAK
2		7275.310	7.484	37.180	44.665	-29.335	74.000	PEAK
3		9690.430	10.378	35.830	46.208	-27.792	74.000	PEAK
4	*	12110.840	14.661	33.780	48.441	-25.559	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 17:52**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - N_40MHz - 2422MHz**

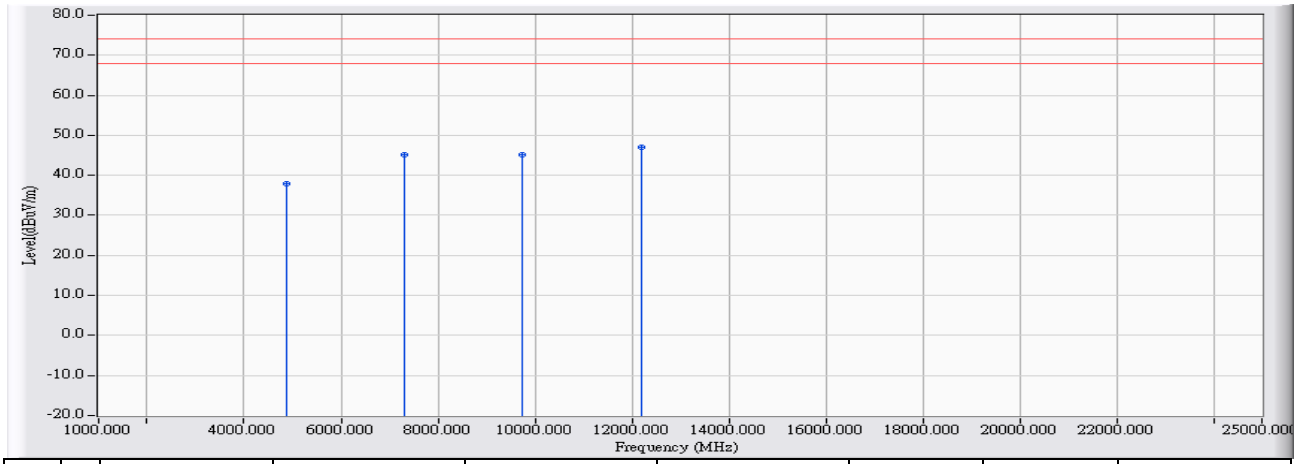


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4846.830	2.052	35.560	37.611	-36.389	74.000	PEAK
2	*	7275.120	7.410	44.280	51.690	-22.310	74.000	PEAK
3		9690.340	10.577	35.020	45.597	-28.403	74.000	PEAK
4		12111.080	13.557	33.380	46.937	-27.063	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 17:59**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - N_40MHz - 2437MHz**

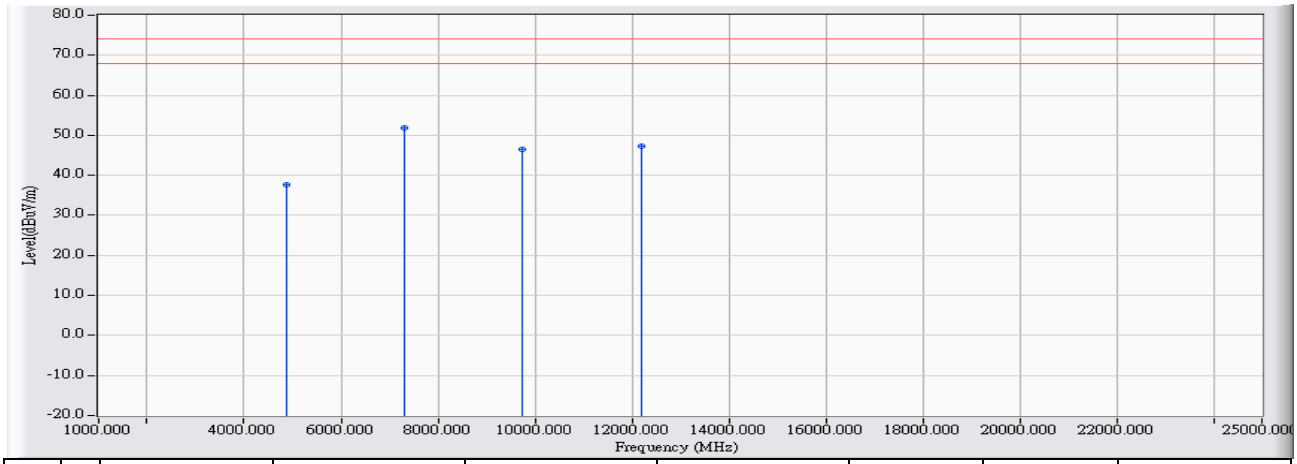


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.500	2.118	35.830	37.948	-36.052	74.000	PEAK
2		7316.200	7.821	37.440	45.261	-28.739	74.000	PEAK
3		9747.110	10.679	34.370	45.049	-28.951	74.000	PEAK
4	*	12185.010	14.075	33.070	47.145	-26.855	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 18:05**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - N_40MHz - 2437MHz**

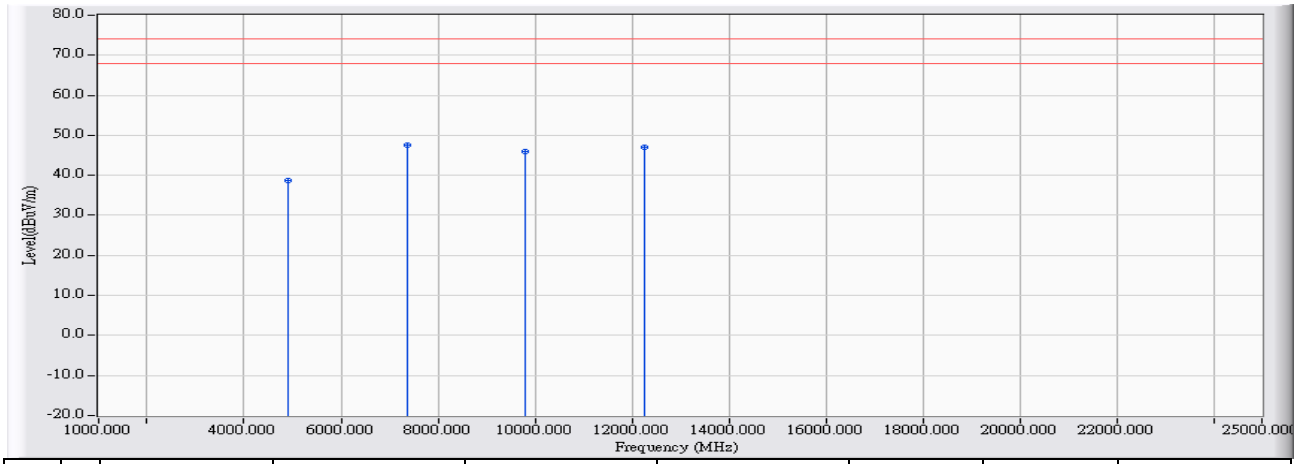


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.340	2.080	35.610	37.690	-36.310	74.000	PEAK
2	*	7316.240	7.581	44.280	51.862	-22.138	74.000	PEAK
3		9747.310	10.838	35.780	46.619	-27.381	74.000	PEAK
4		12185.340	12.988	34.250	47.238	-26.762	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 18:12**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - N_40MHz - 2452MHz**

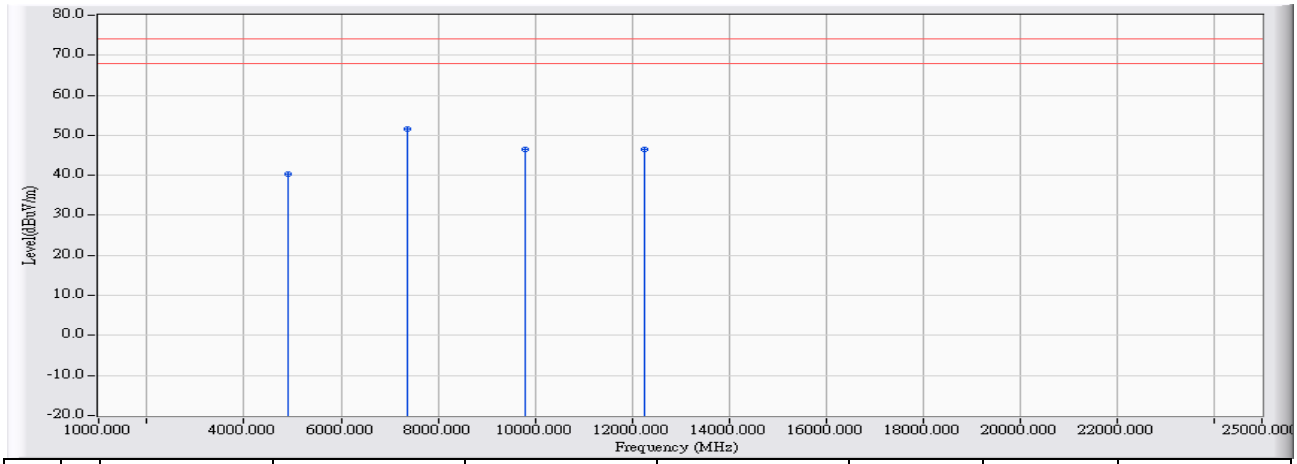


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4904.820	2.127	36.480	38.607	-35.393	74.000	PEAK
2	*	7365.990	8.234	39.460	47.694	-26.306	74.000	PEAK
3		9809.910	10.990	34.990	45.981	-28.019	74.000	PEAK
4		12261.940	13.371	33.780	47.152	-26.848	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2009/06/29 - 18:17**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : TX - N_40MHz - 2452MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4904.670	2.110	38.180	40.290	-33.710	74.000	PEAK
2	*	7365.870	7.787	43.750	51.537	-22.463	74.000	PEAK
3		9809.880	11.113	35.489	46.602	-27.398	74.000	PEAK
4		12261.640	12.291	34.240	46.531	-27.469	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.
7. The Emission above 13GHz were not included is because their levels are too low.

5. RF antenna conducted test

5.1. Test Equipment

The following test equipments are used during the test:

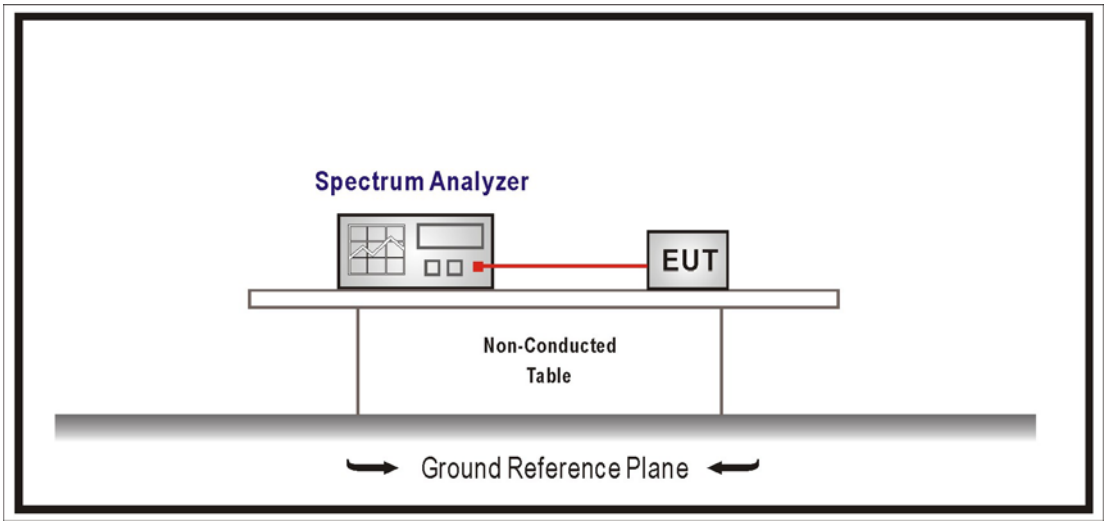
RF Conducted Measurement:				
Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Mar., 2009
2	No.1 OATS			Sep., 2008

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

2. Test instruments are marked with “X” are used to measure the final test results.

5.2. Test Setup

RF Antenna Conducted Measurement:



5.3. Limits

In any 100 KHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 KHz bandwidth within the band that contains the highest level of the desired power, based on an RF conducted or radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.
Set RBW = 100 KHz, Set VBW> RBW, scan up through 10th harmonic.

5.5. Uncertainty

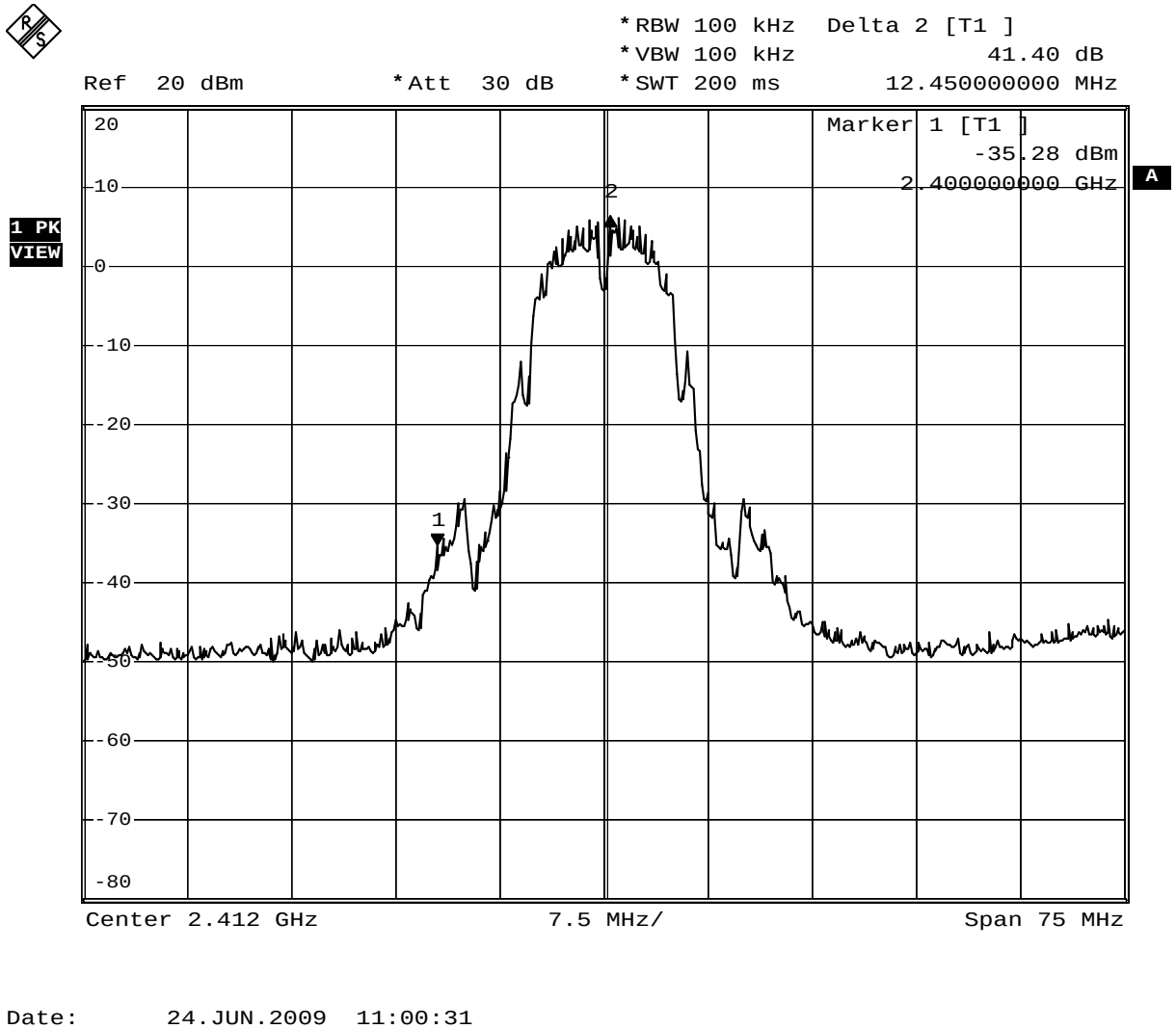
The measurement uncertainty
Conducted is defined as ± 1.27dB
Radiated is defined as ± 3.9dB

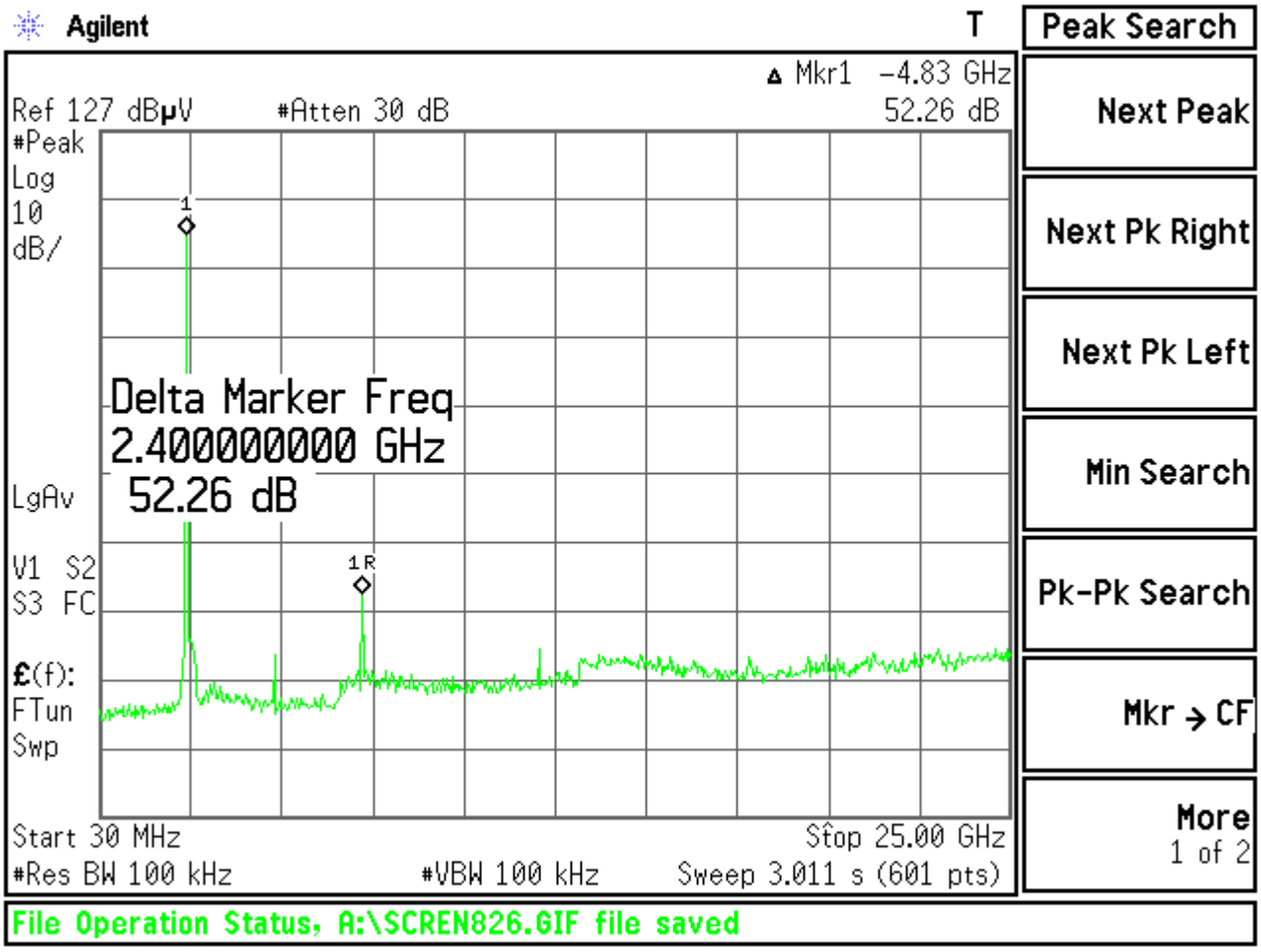
5.6. Test Result

Product	ASUS Wireless SuperSpeedN Router		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

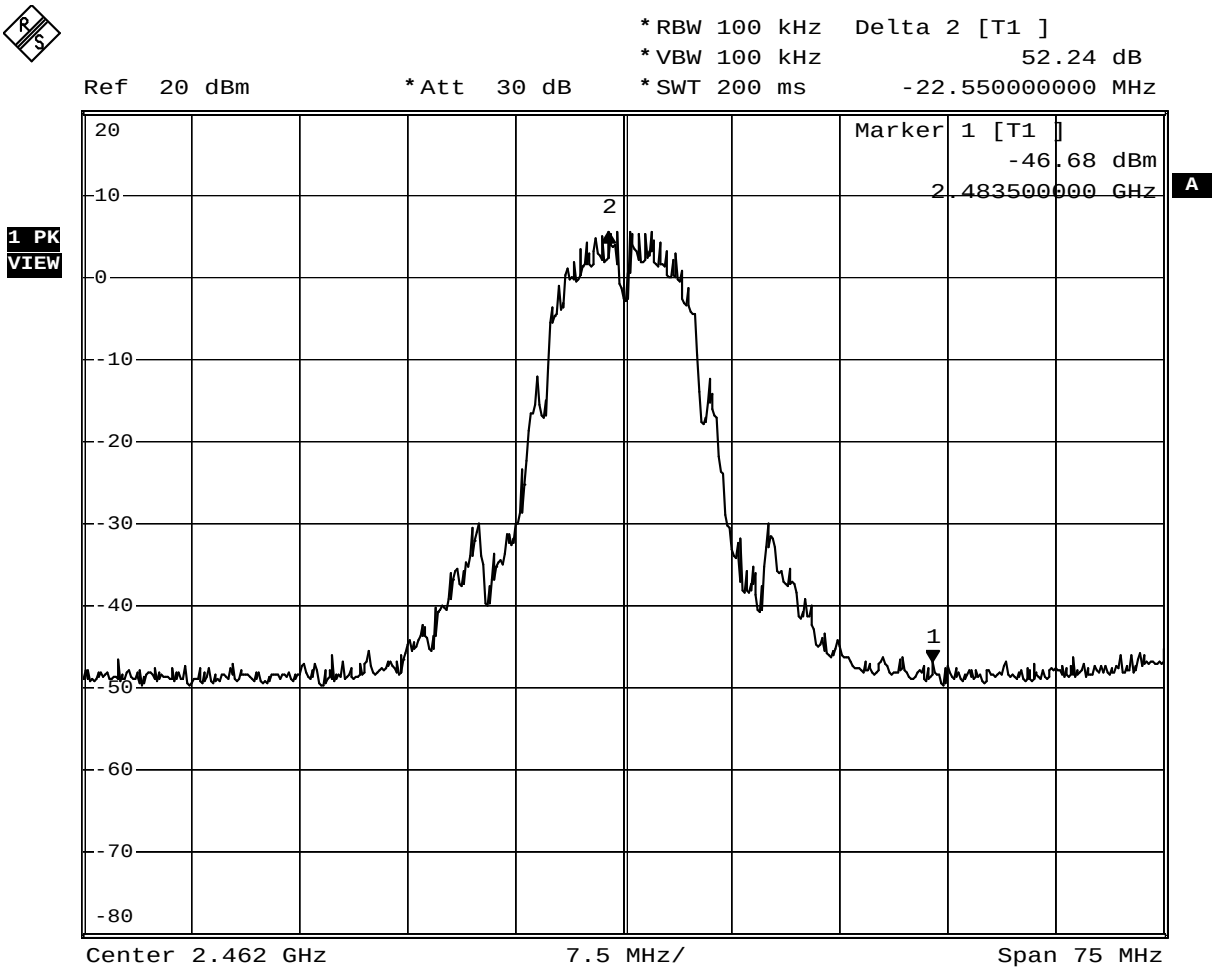
IEEE 802.11b, Antenna Gain: 2.5dBi, Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	41.40	≧ 20	Pass
11	2462	52.24	≧ 20	Pass

Channel 01 (2412MHz)

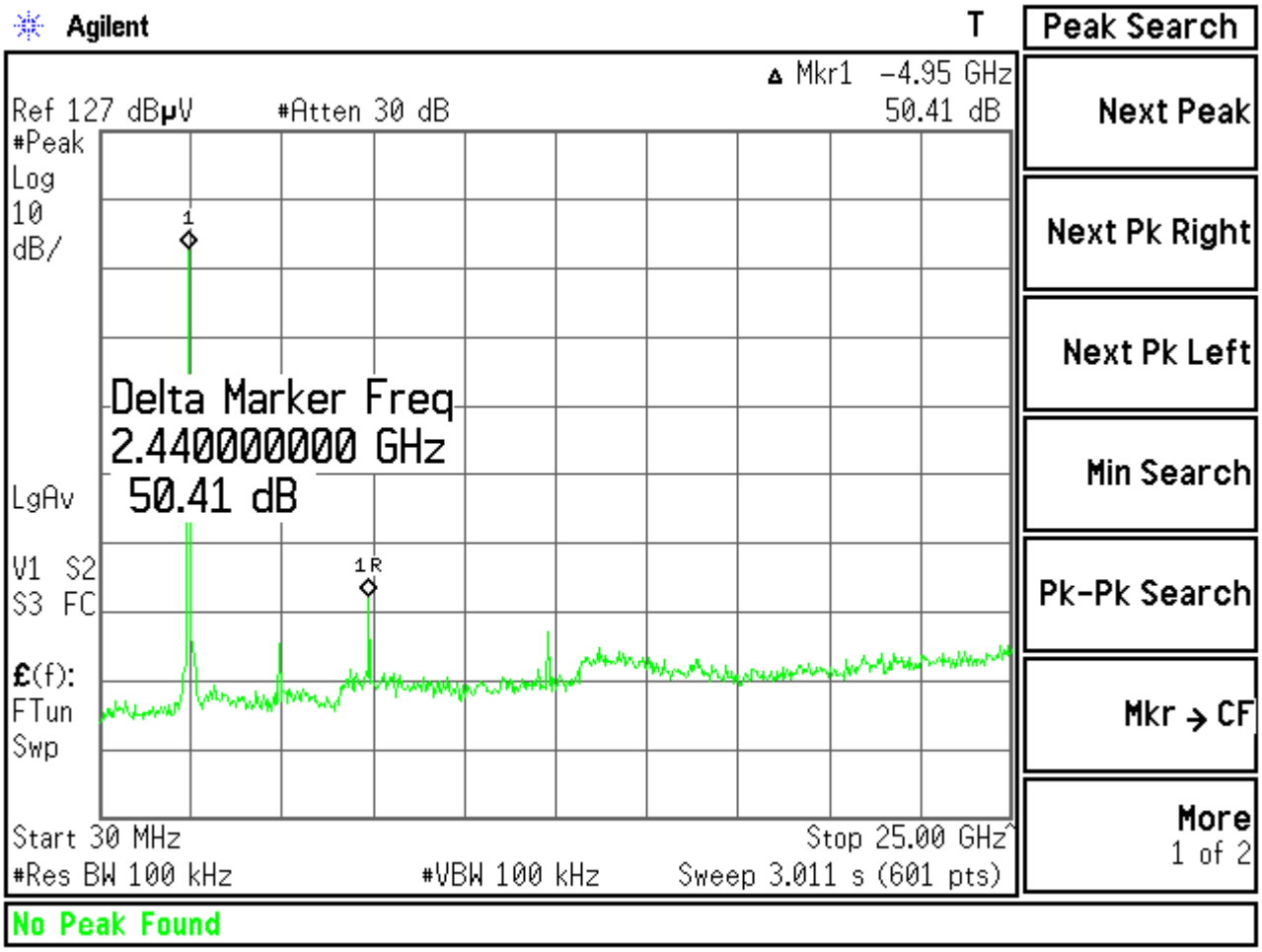



Agilent
T
Peak Search
Mkr1 -4.83 GHz
Ref 127 dBµV
#Atten 30 dB
52.26 dB
Next Peak
#Peak
Log
10
dB/
Next Pk Right
Next Pk Left
Delta Marker Freq
2.400000000 GHz
52.26 dB
LgAv
Min Search
V1 S2
S3 FC
Pk-Pk Search
£(f):
FTun
Swp
Mkr → CF
More
1 of 2
Start 30 MHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 3.011 s (601 pts)
File Operation Status, A:\SCREN826.GIF file saved

Channel 11 (2462MHz)



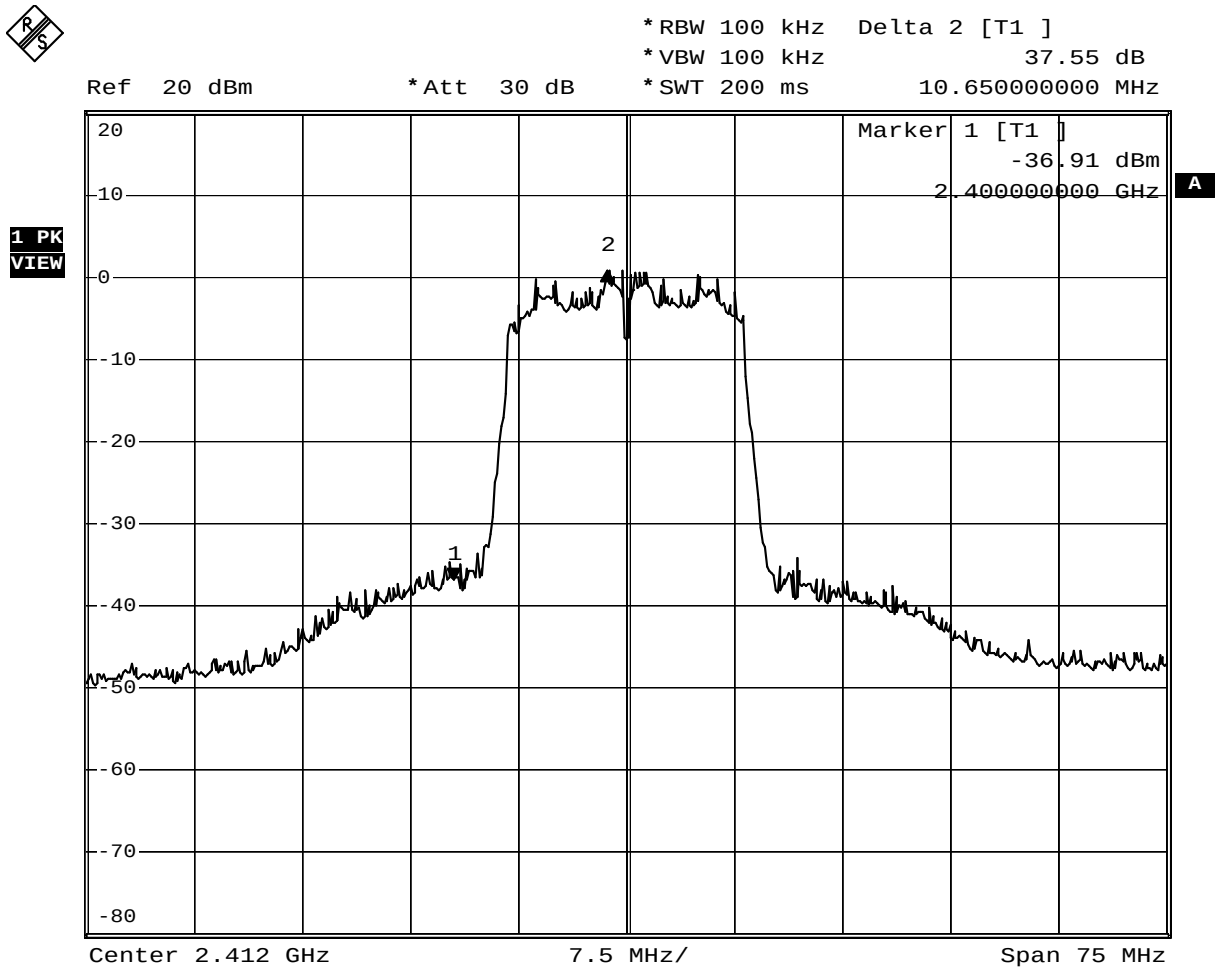
Date: 24.JUN.2009 11:30:20


Agilent
T
Peak Search
Mkr1 -4.95 GHz
50.41 dB
Ref 127 dBµV
#Atten 30 dB
#Peak
Log
10
dB/
1
Delta Marker Freq
2.440000000 GHz
50.41 dB
LgAv
V1 S2
S3 FC
1R
£(f):
FTun
Swp
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 30 MHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 3.011 s (601 pts)
No Peak Found

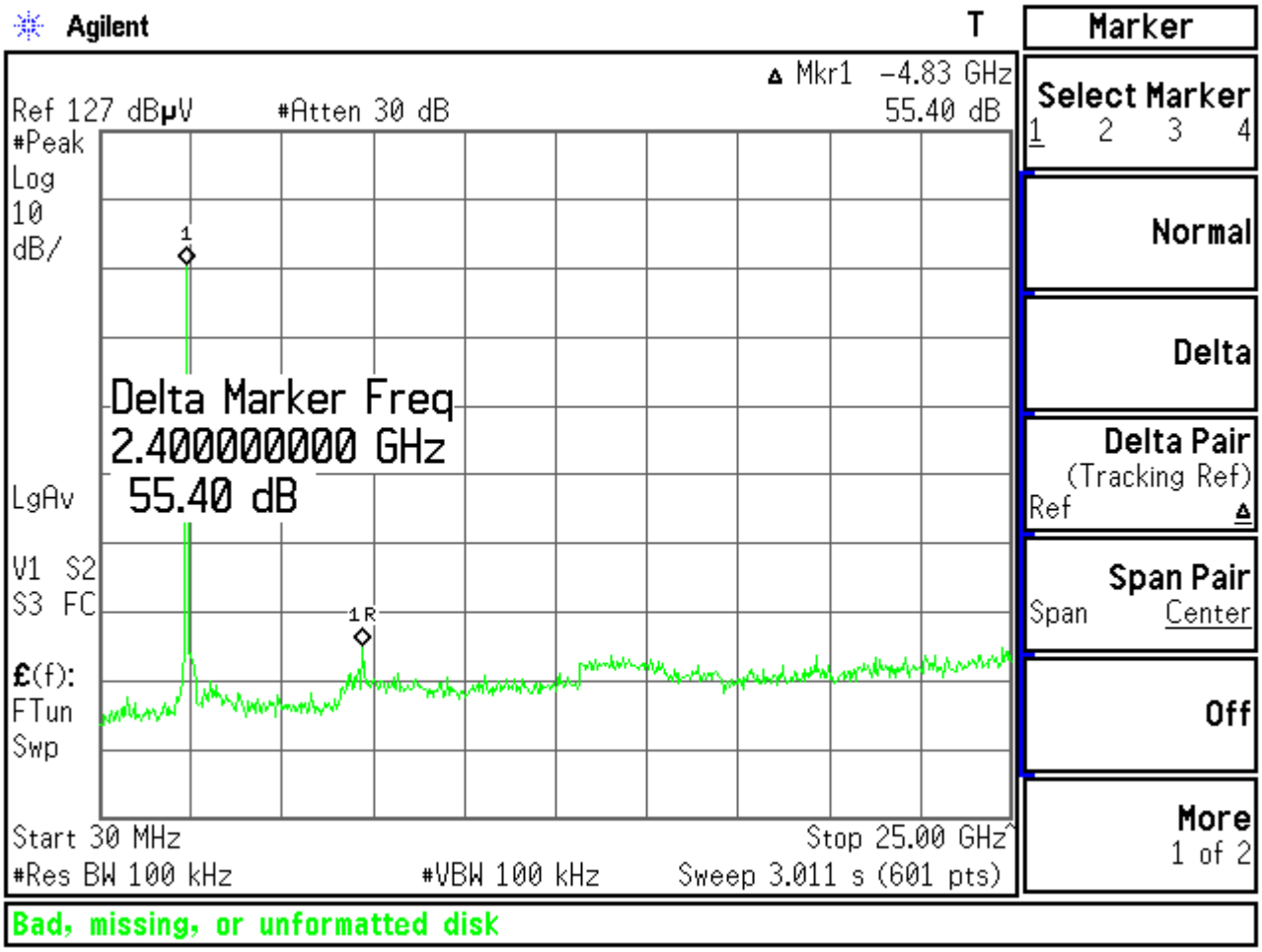
Product	ASUS Wireless SuperSpeedN Router		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

IEEE 802.11g, Antenna Gain: 2.5dBi, Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	37.55	≧ 20	Pass
11	2462	41.93	≧ 20	Pass

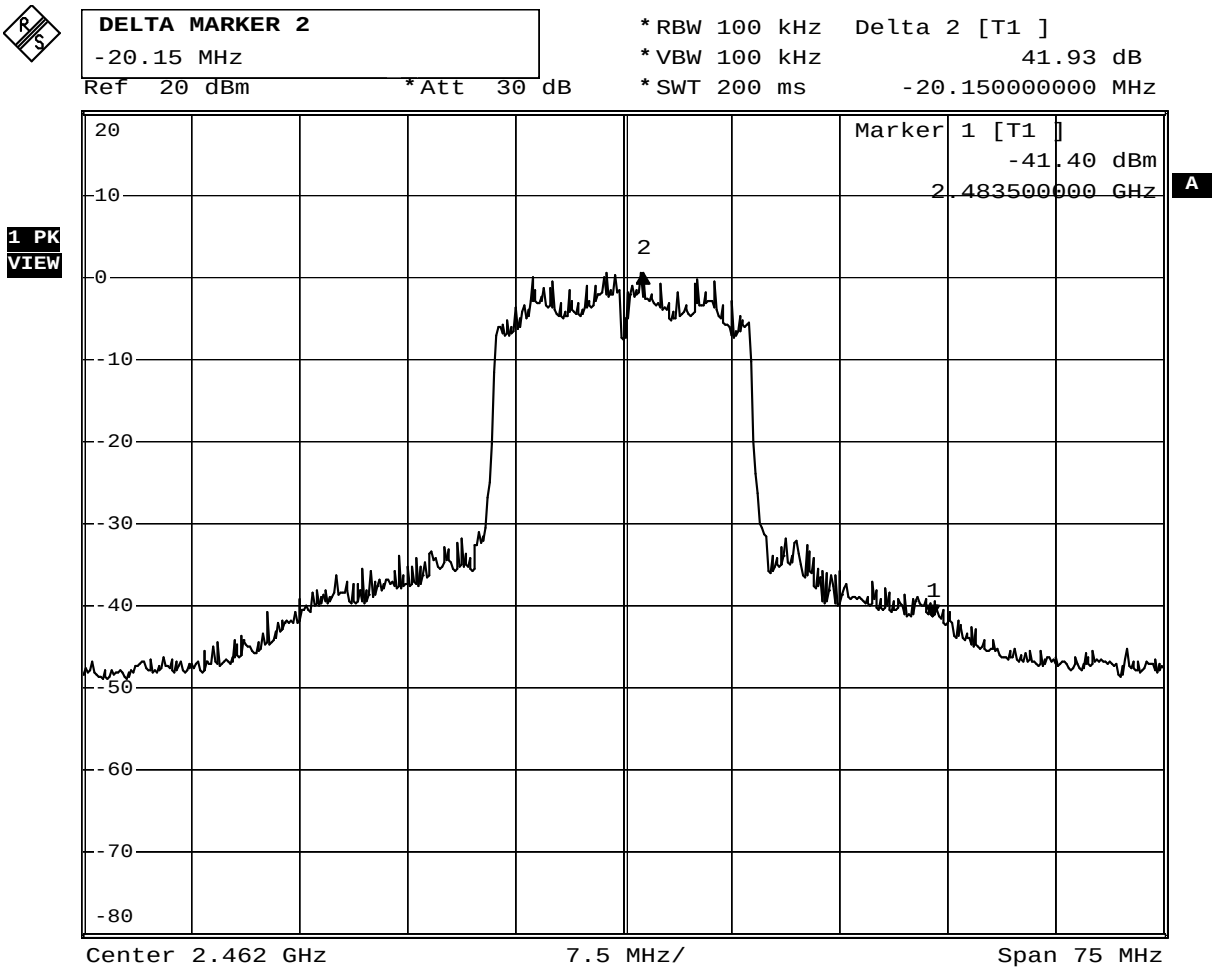
Channel 01 (2412MHz)



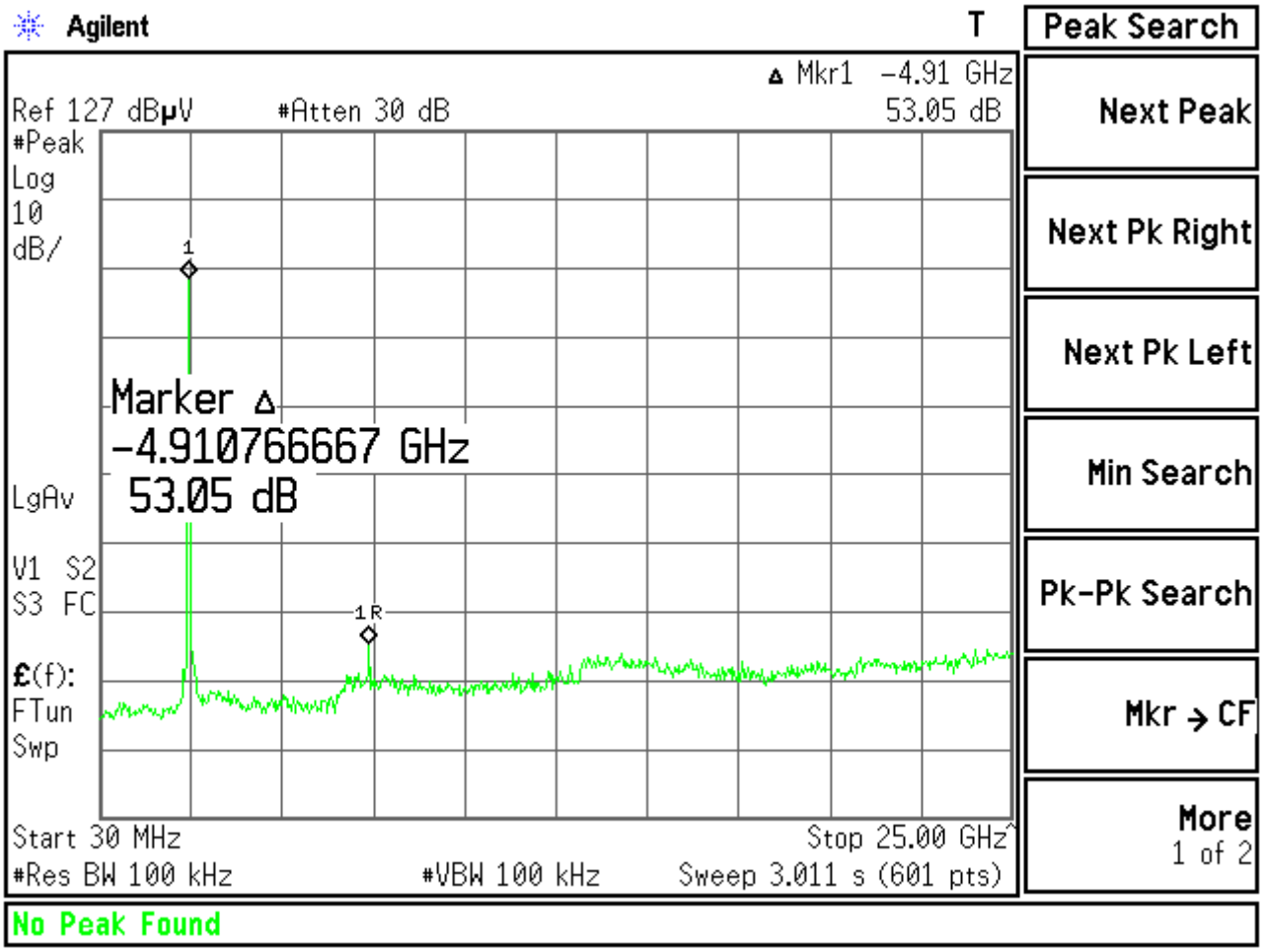
Date: 24.JUN.2009 11:03:53


Agilent
T
Marker
Mkr1 -4.83 GHz
55.40 dB
Ref 127 dBµV
#Atten 30 dB
#Peak
Log
10
dB/
Delta Marker Freq
2.400000000 GHz
55.40 dB
LgAv
V1 S2
S3 FC
£(f):
FTun
Swp
Start 30 MHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 3.011 s (601 pts)
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref
Span Pair
Span Center
Off
More
1 of 2
Bad, missing, or unformatted disk

Channel 11 (2462MHz)



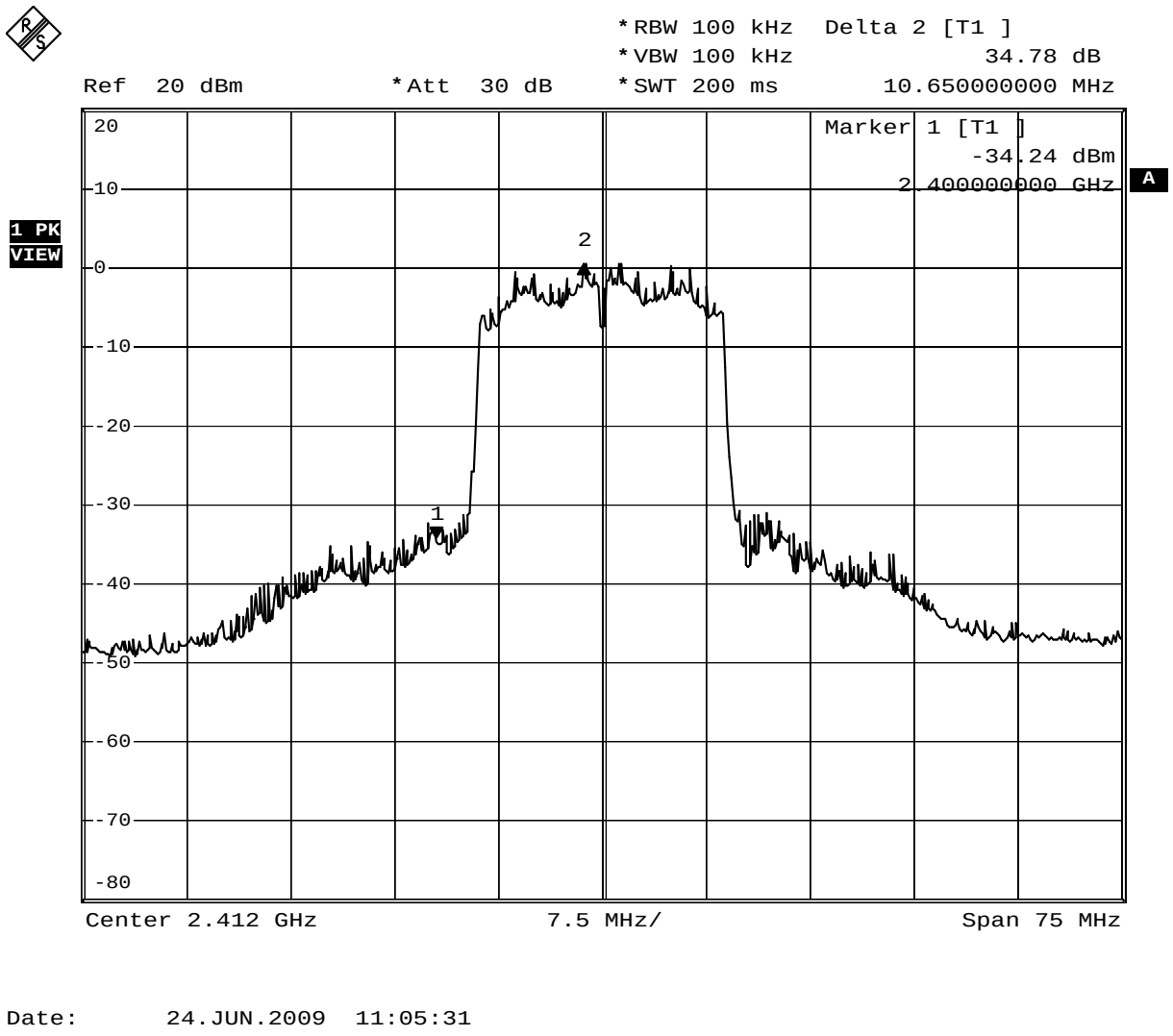
Date: 24.JUN.2009 11:32:36

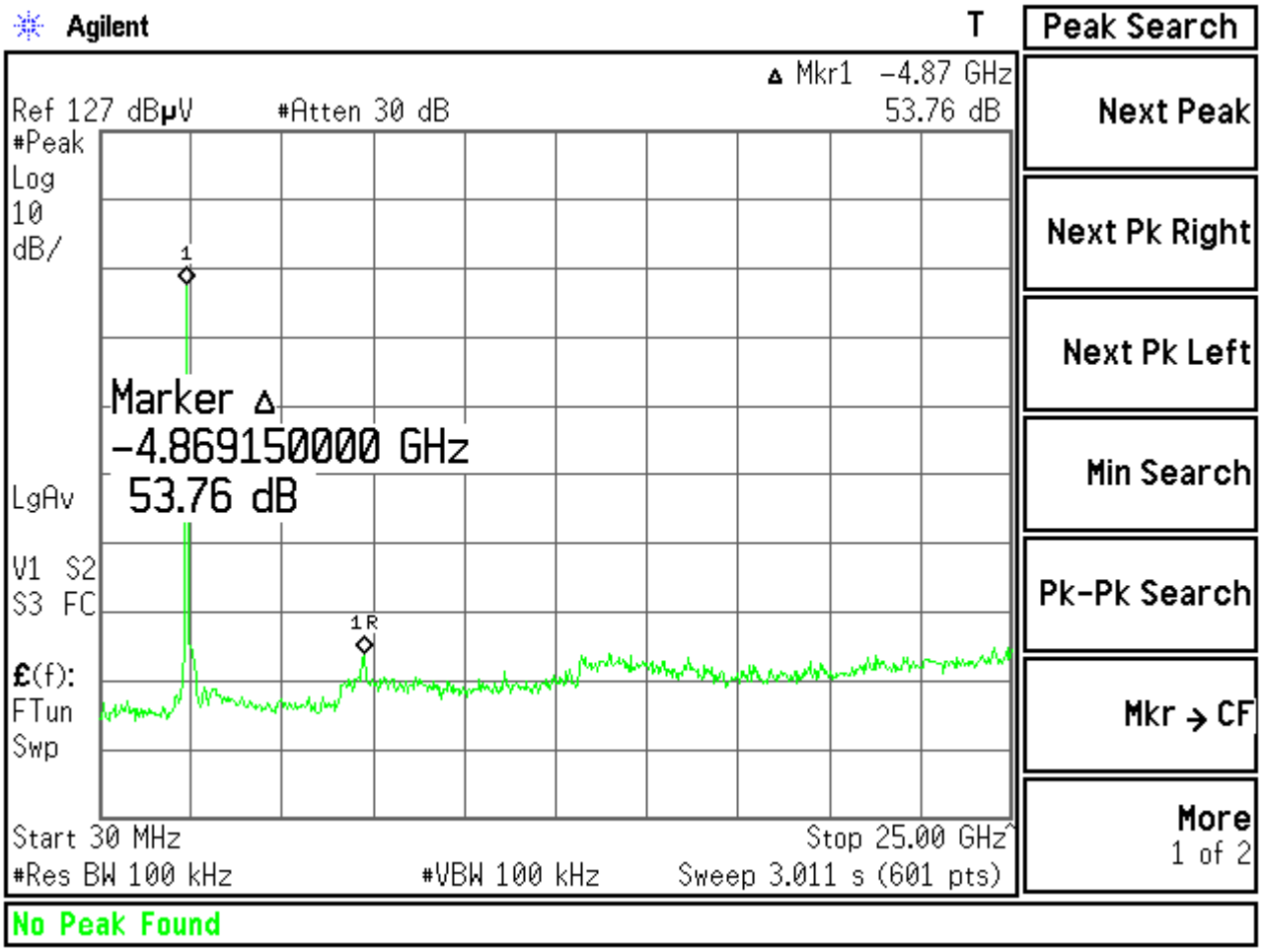

Agilent
T
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Mkr1 -4.91 GHz
53.05 dB
Ref 127 dBµV
#Atten 30 dB
#Peak
Log
10
dB/
Marker Δ
-4.910766667 GHz
53.05 dB
LgAv
V1 S2
S3 FC
£(f):
FTun
Swp
Start 30 MHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 3.011 s (601 pts)
No Peak Found

Product	ASUS Wireless SuperSpeedN Router		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

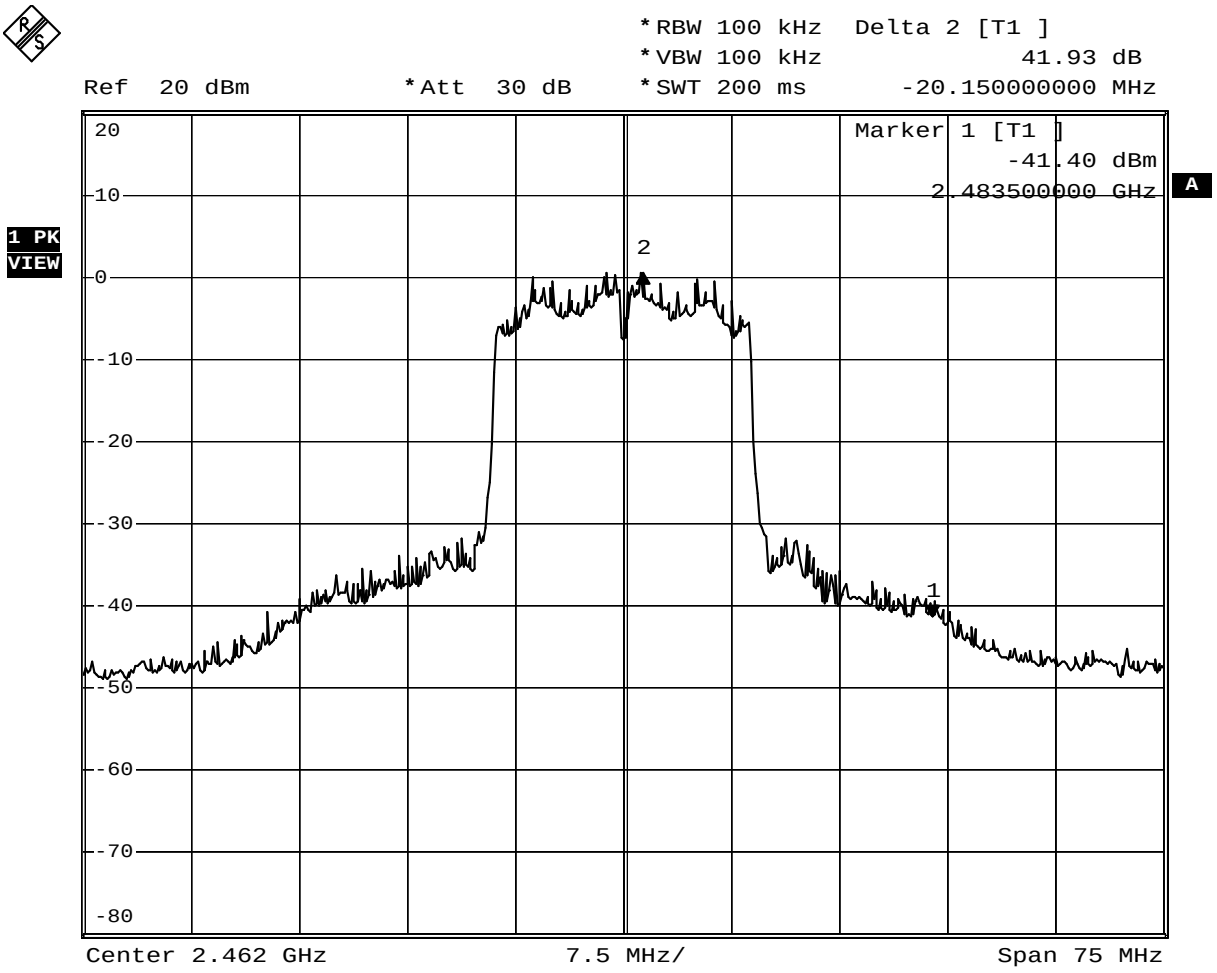
IEEE 802.11n (ANT A (20MHz)), Antenna Gain: 2.5dBi, Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	34.78	≧ 20	Pass
11	2462	41.93	≧ 20	Pass

Channel 1 (2412MHz)

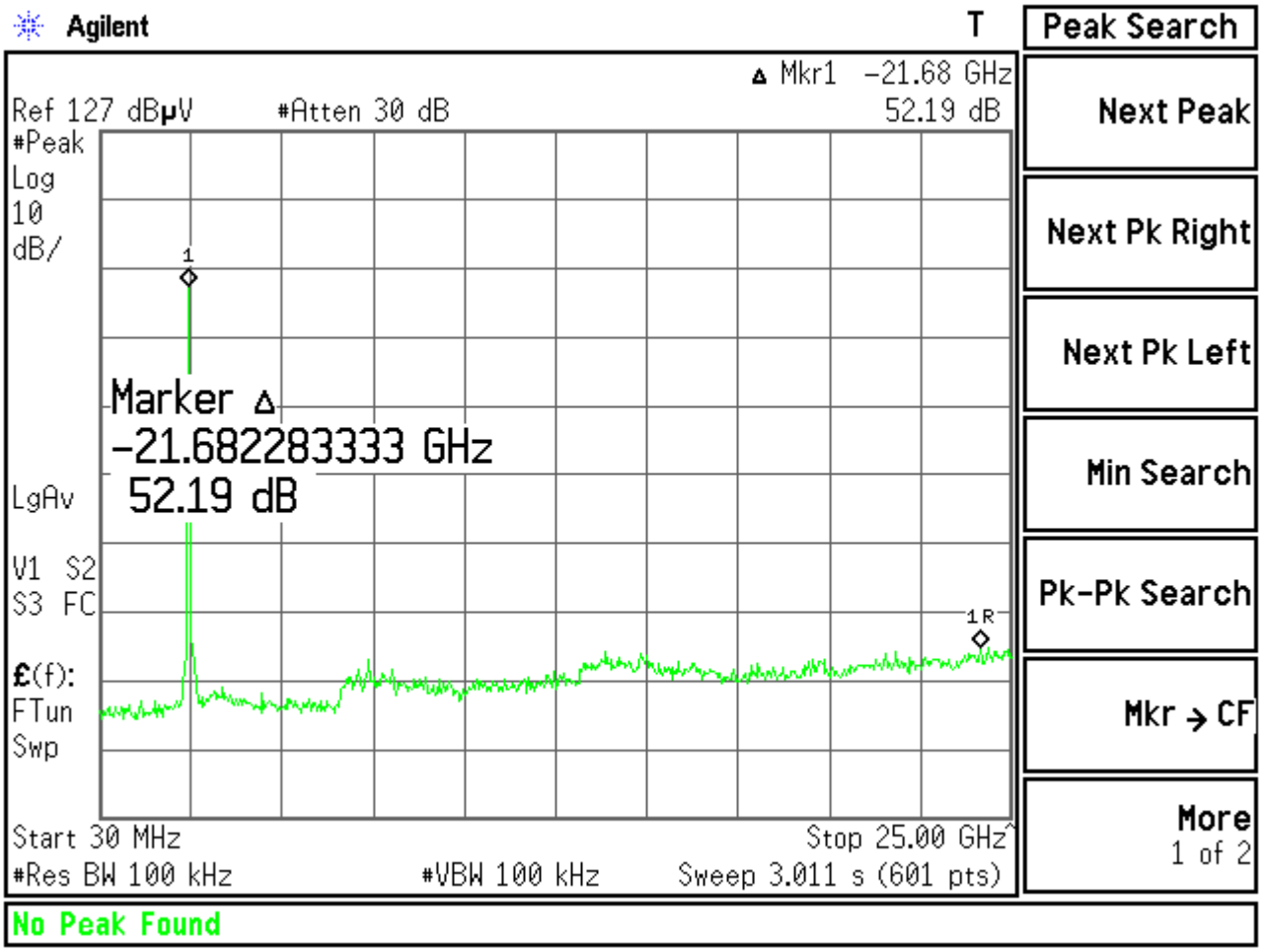



Agilent
T
Peak Search
Mkr1 -4.87 GHz
53.76 dB
Ref 127 dBµV
#Atten 30 dB
Next Peak
#Peak
Log
10
dB/
Next Pk Right
Next Pk Left
Marker Δ
-4.869150000 GHz
53.76 dB
LgAv
Min Search
V1 S2
S3 FC
Pk-Pk Search
£(f):
FTun
Swp
Mkr → CF
More
1 of 2
Start 30 MHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 3.011 s (601 pts)
No Peak Found

Channel 11 (2462MHz)



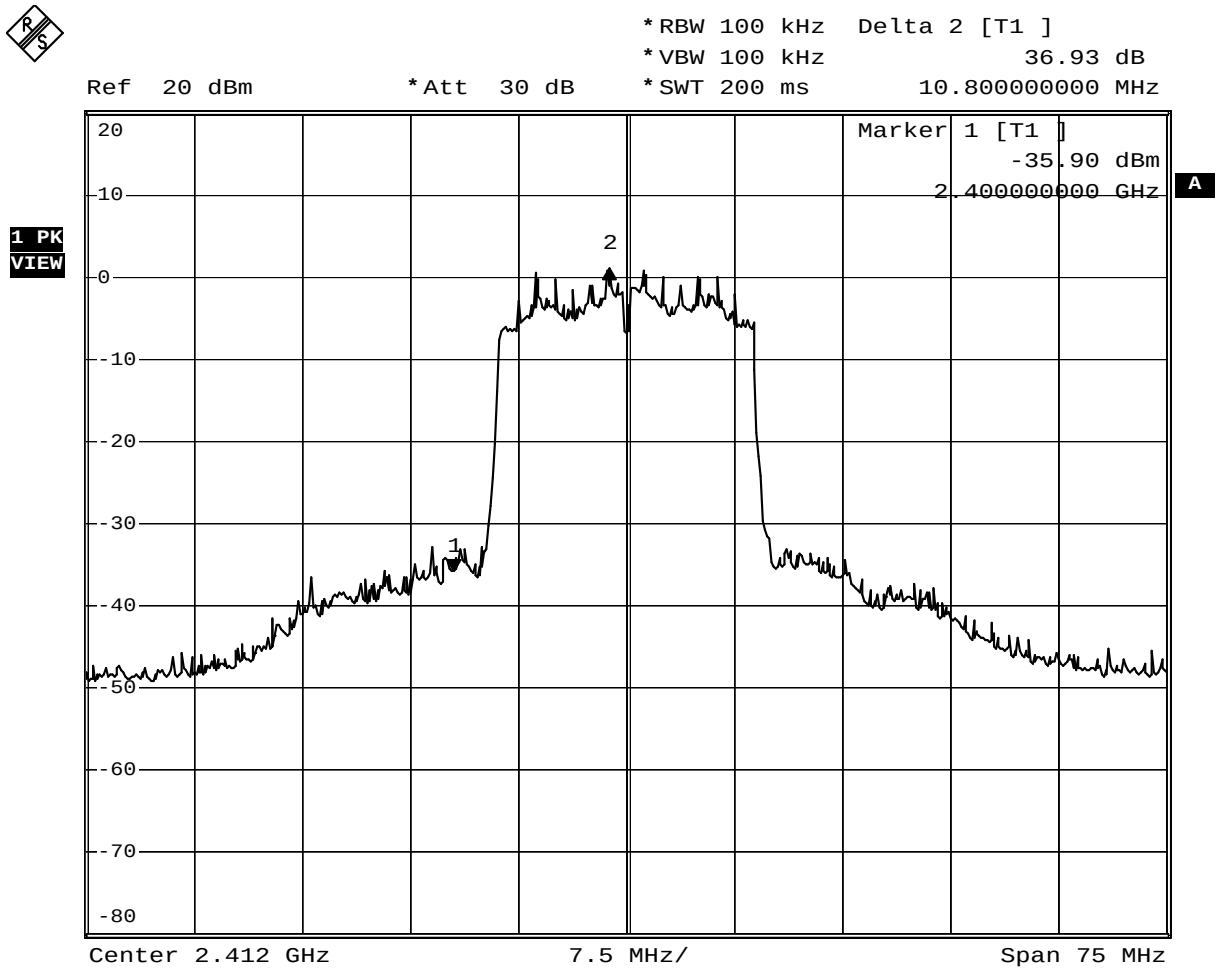
Date: 24.JUN.2009 11:32:44


Agilent
T
Peak Search
Mkr1 −21.68 GHz
52.19 dB
Ref 127 dBµV
#Atten 30 dB
#Peak
Log
10
dB/
1
Marker Δ
−21.682283333 GHz
52.19 dB
LgAv
V1 S2
S3 FC
£(f):
FTun
Swp
1R
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 30 MHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 3.011 s (601 pts)
No Peak Found

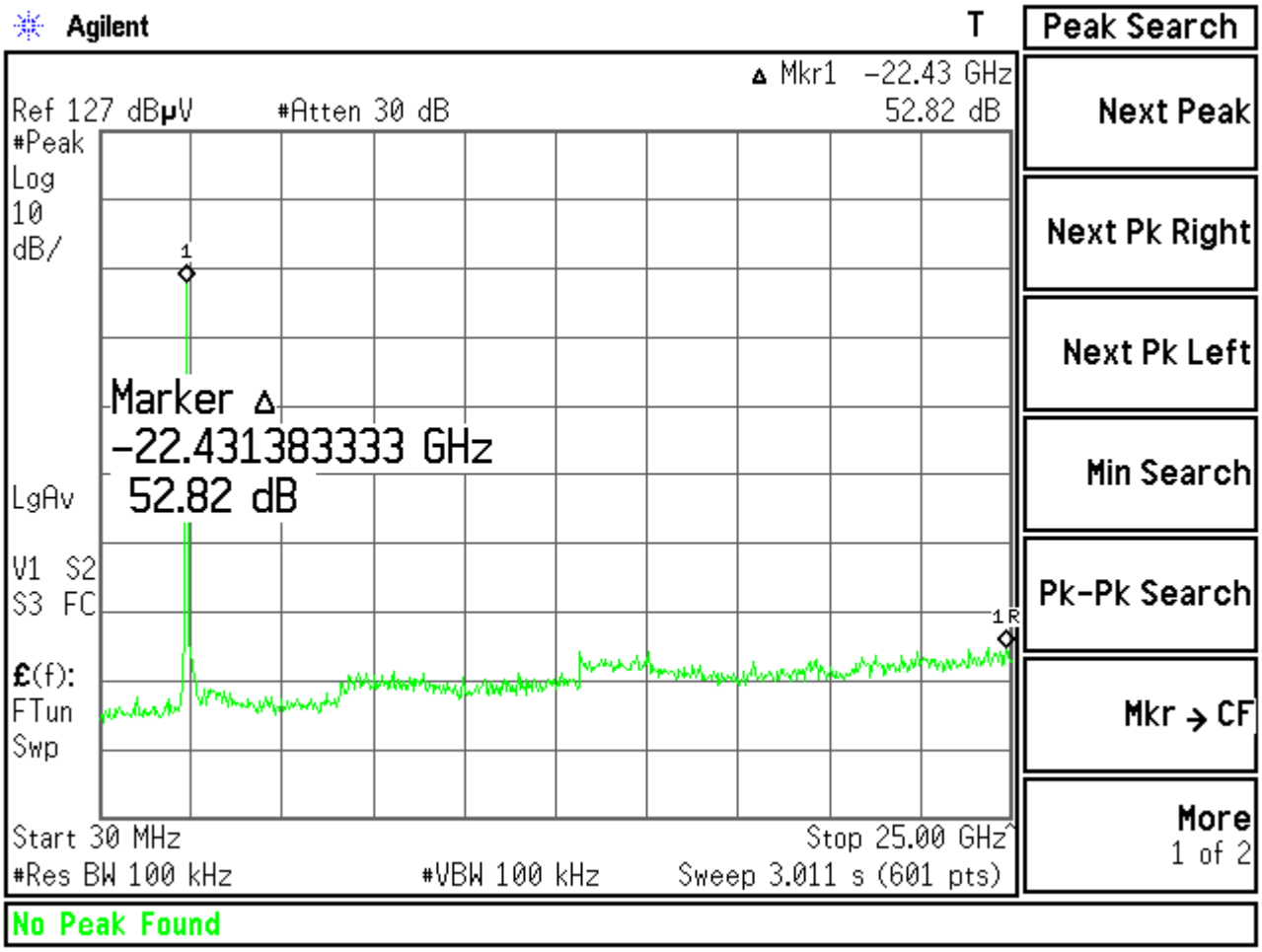
Product	ASUS Wireless SuperSpeedN Router		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

IEEE 802.11n (ANT B (20MHz)), Antenna Gain: 2.5dBi, Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	36.93	≧ 20	Pass
11	2462	42.22	≧ 20	Pass

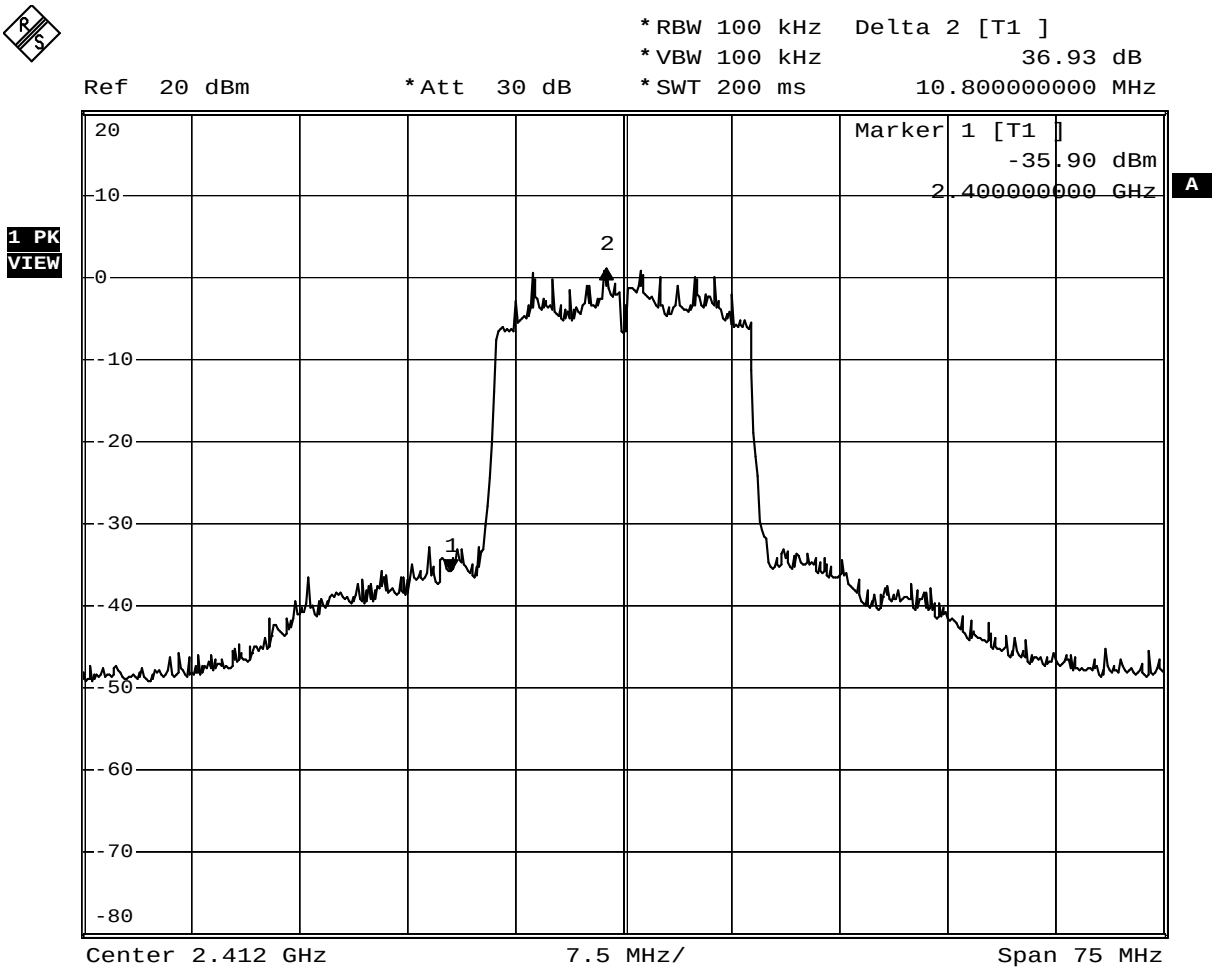
Channel 1 (2412MHz)



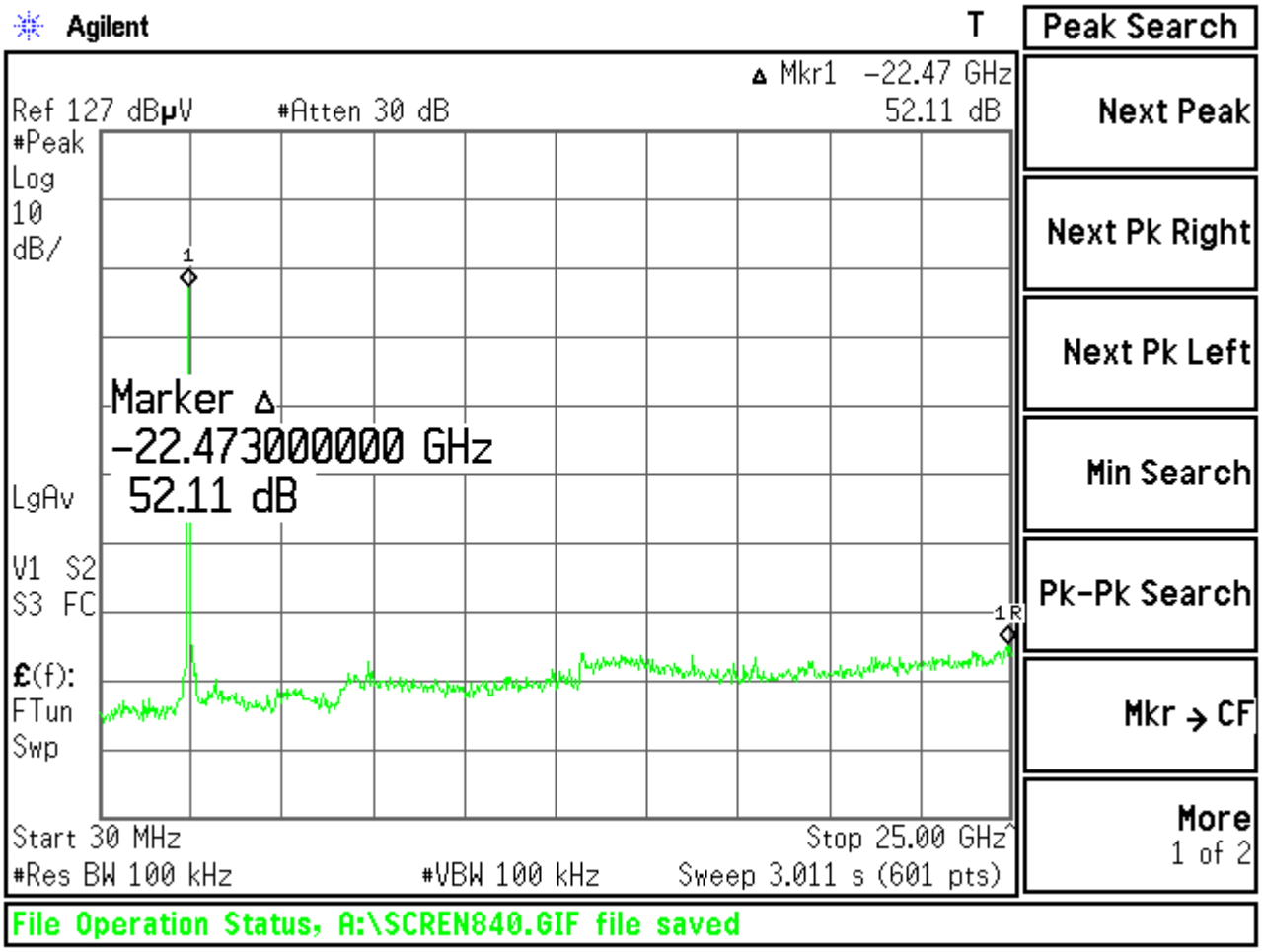
Date: 24.JUN.2009 11:21:25


Agilent
T
Peak Search
Mkr1 -22.43 GHz
Ref 127 dBµV
#Atten 30 dB
52.82 dB
Next Peak
#Peak
Log
10
dB/
Next Pk Right
Next Pk Left
Marker Δ
-22.431383333 GHz
52.82 dB
LgAv
Min Search
V1 S2
S3 FC
Pk-Pk Search
£(f):
FTun
Swp
Mkr → CF
More
1 of 2
Start 30 MHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 3.011 s (601 pts)
No Peak Found

Channel 11 (2462MHz)



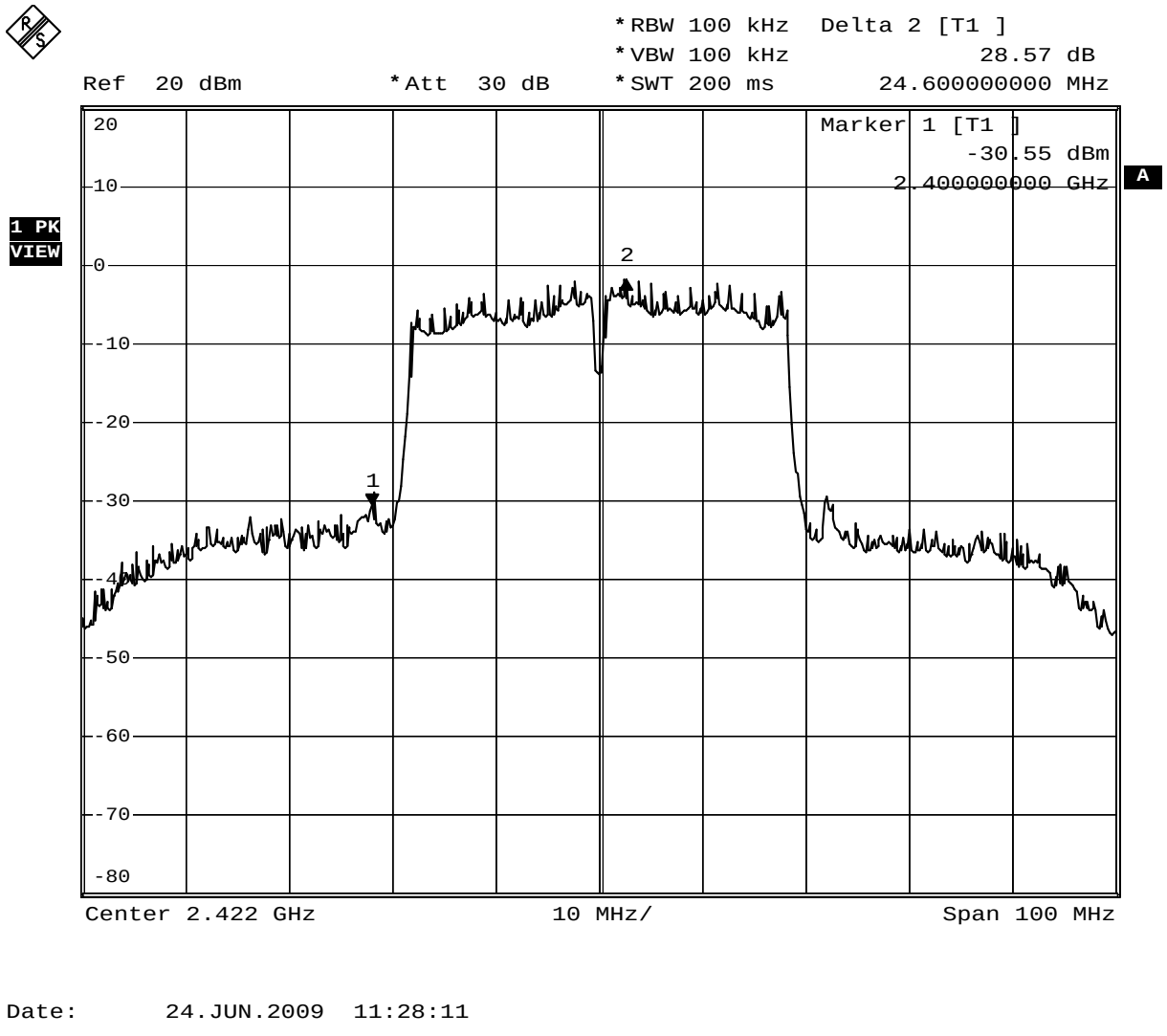
Date: 24.JUN.2009 11:21:25

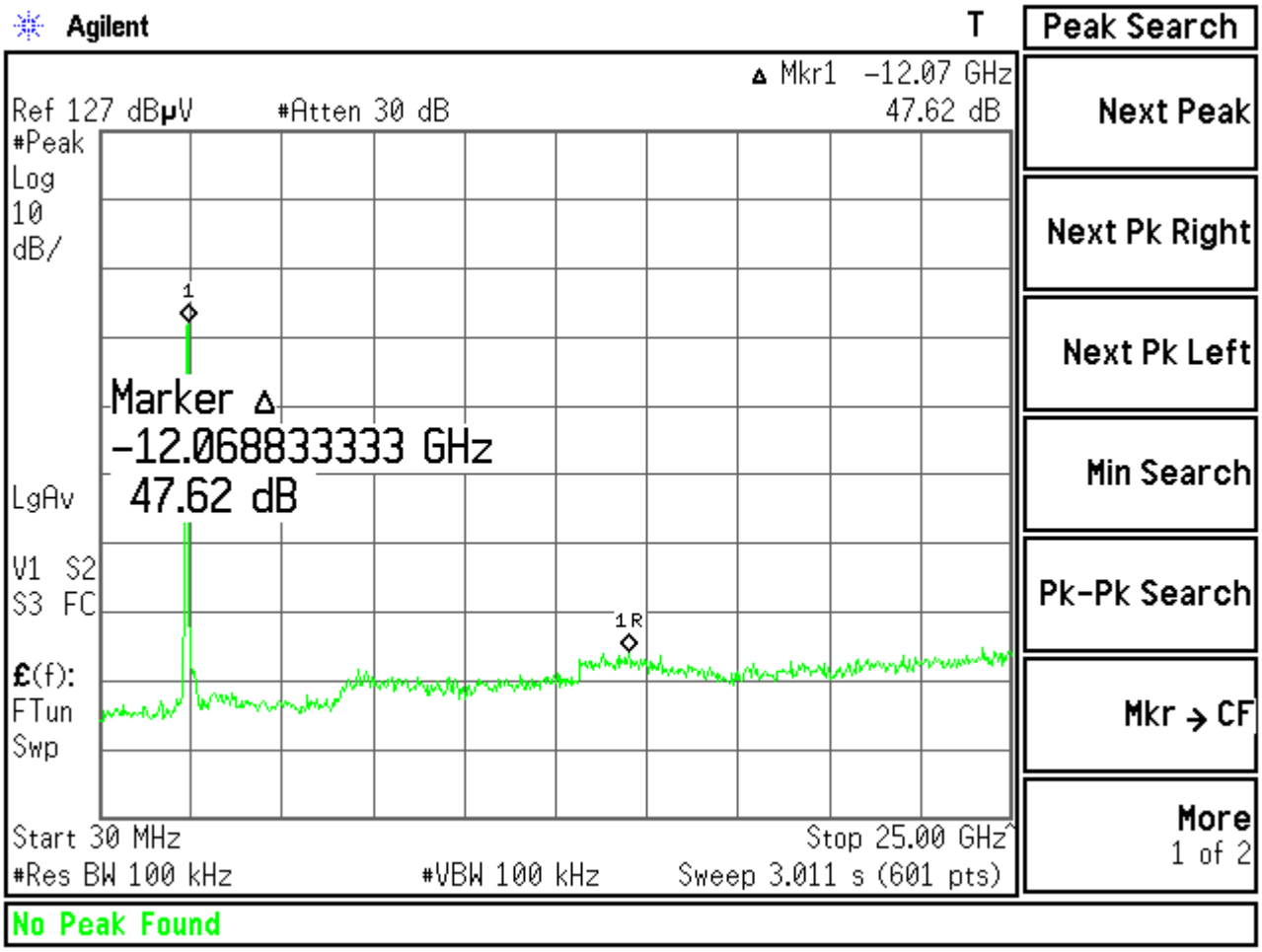

Agilent
T
Peak Search
Mkr1 −22.47 GHz
52.11 dB
Ref 127 dBµV
#Atten 30 dB
#Peak
Log
10
dB/
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Marker Δ
−22.473000000 GHz
52.11 dB
LgAv
V1 S2
S3 FC
£(f):
FTun
Swp
Start 30 MHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 3.011 s (601 pts)
File Operation Status, A:\SCREN840.GIF file saved

Product	ASUS Wireless SuperSpeedN Router		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

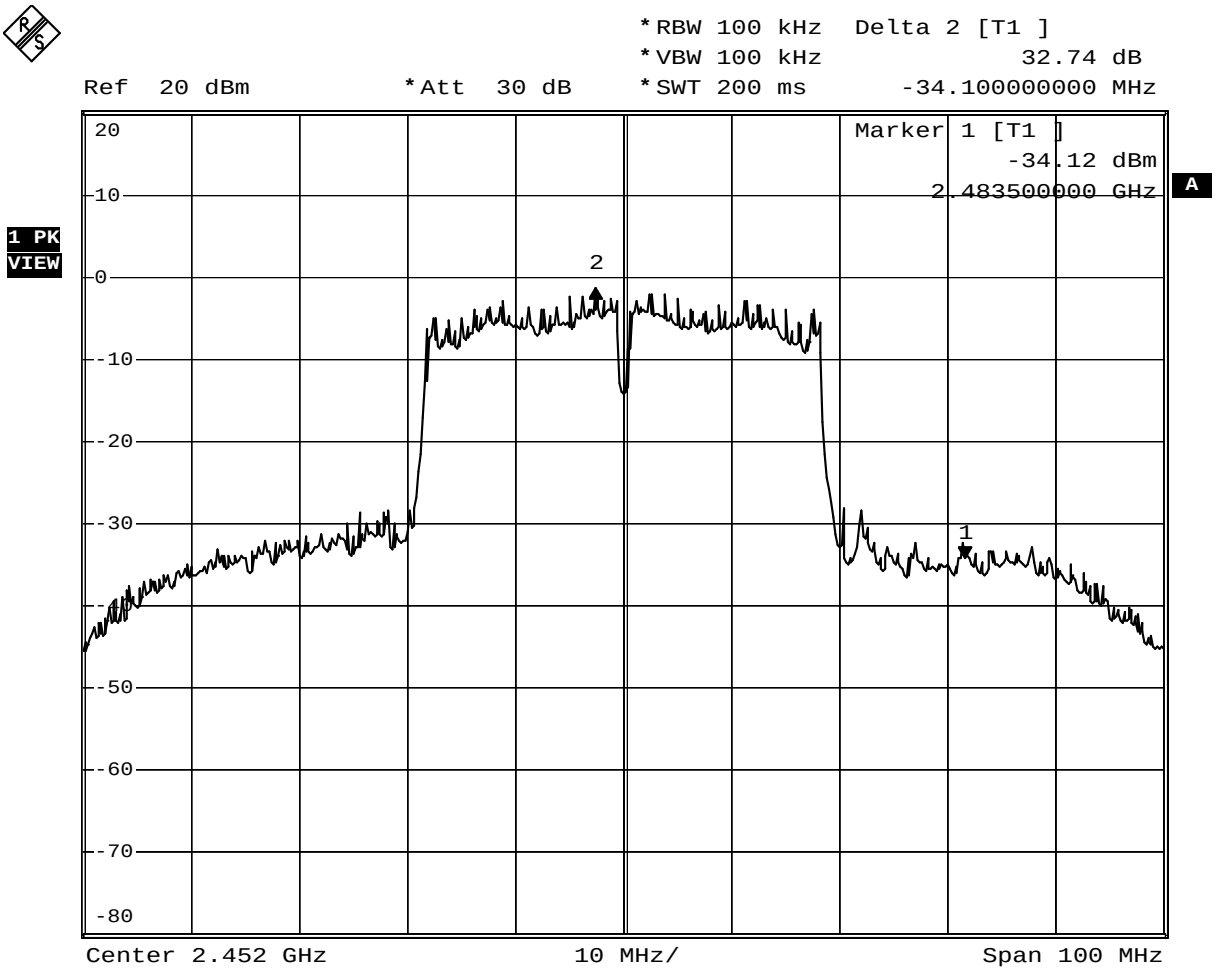
IEEE 802.11n (ANT A (40MHz)), Antenna Gain: 2.5dBi, Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	28.57	≧ 20	Pass
9	2452	32.74	≧ 20	Pass

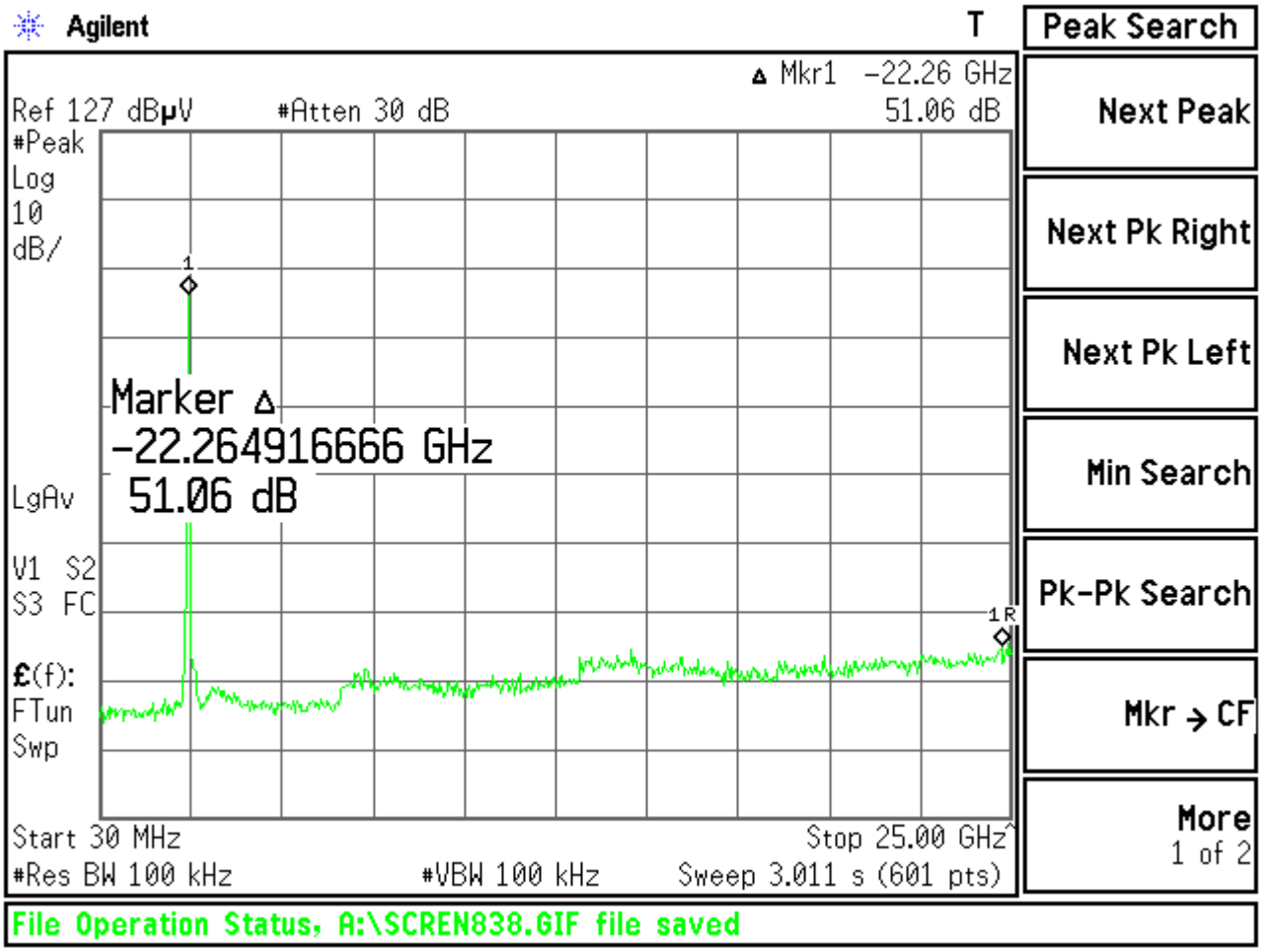
Channel 3 (2422MHz)




Agilent
T
Peak Search
Mkr1 -12.07 GHz
47.62 dB
Ref 127 dBµV
#Atten 30 dB
#Peak
Log
10
dB/
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
1
Marker Δ
-12.068833333 GHz
47.62 dB
LgAv
V1 S2
S3 FC
£(f):
FTun
Swp
1R
Start 30 MHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 3.011 s (601 pts)
No Peak Found

Channel 9 (2452MHz)

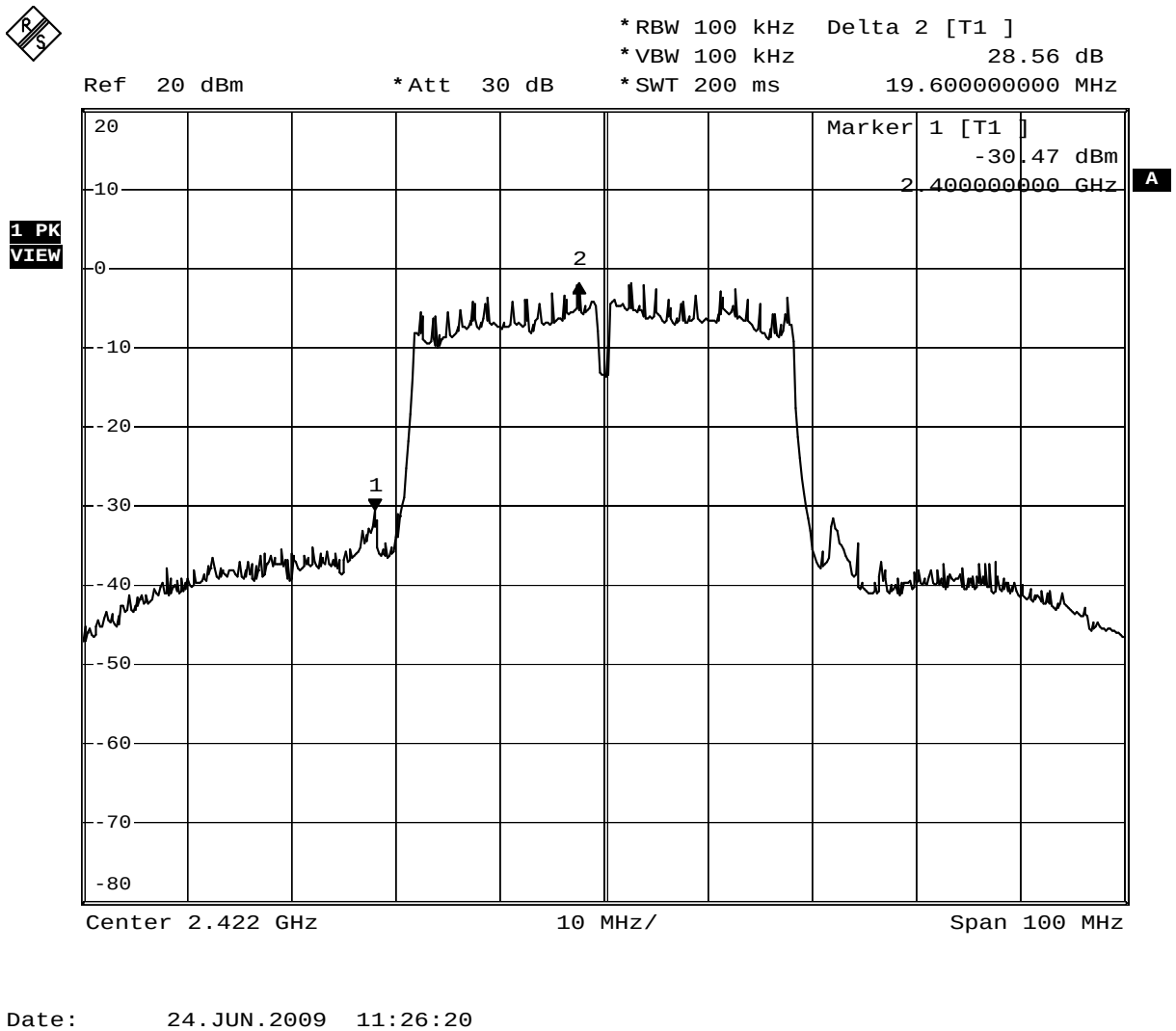


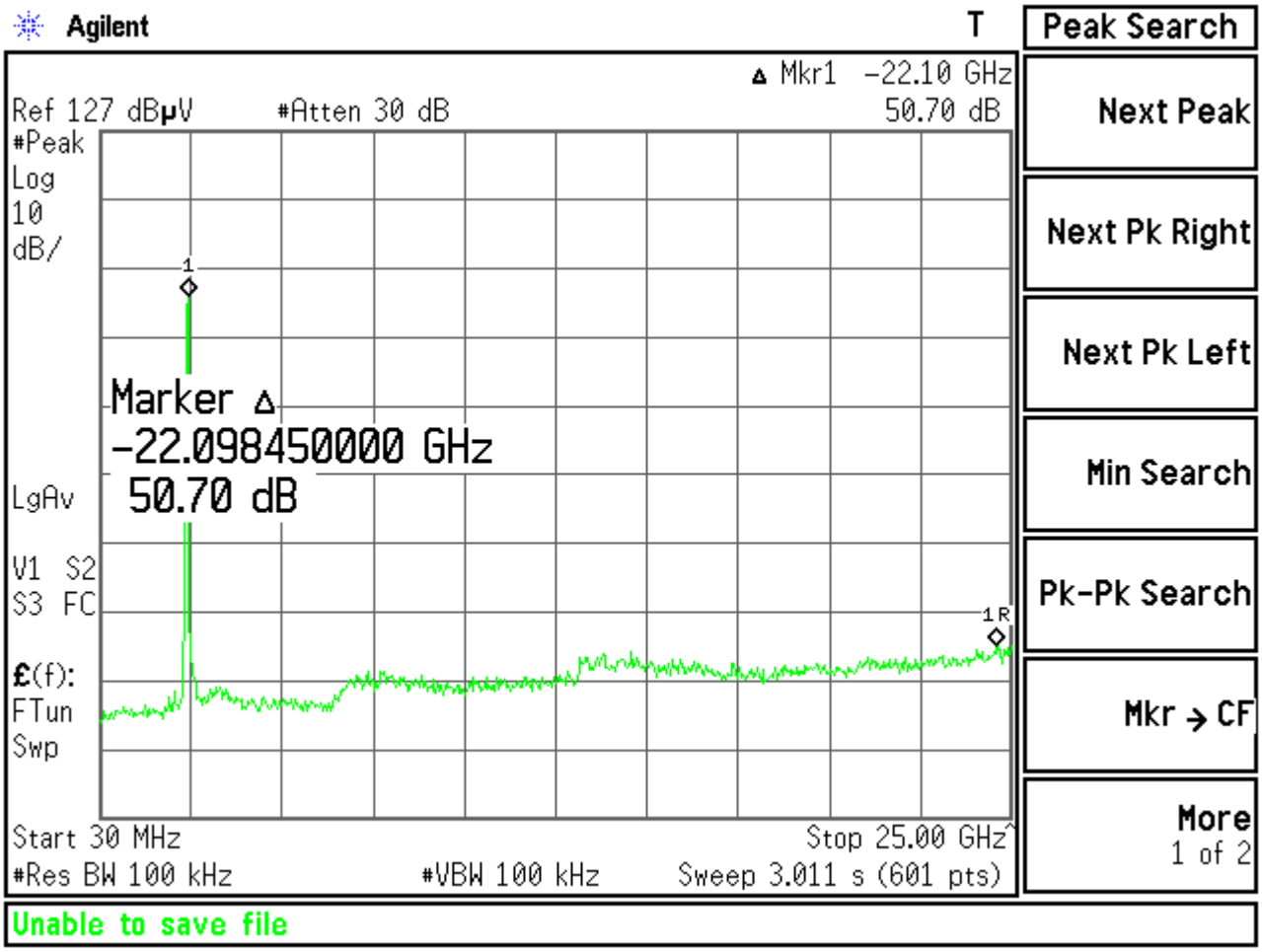

Agilent
T
Peak Search
Mkr1 −22.26 GHz
Ref 127 dBµV
#Atten 30 dB
51.06 dB
Next Peak
#Peak
Log
10
dB/
Next Pk Right
Next Pk Left
Marker Δ
−22.264916666 GHz
51.06 dB
LgAv
Min Search
V1 S2
S3 FC
Pk-Pk Search
£(f):
FTun
Swp
Mkr → CF
More
1 of 2
Start 30 MHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 3.011 s (601 pts)
File Operation Status, A:\SCREN838.GIF file saved

Product	ASUS Wireless SuperSpeedN Router		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

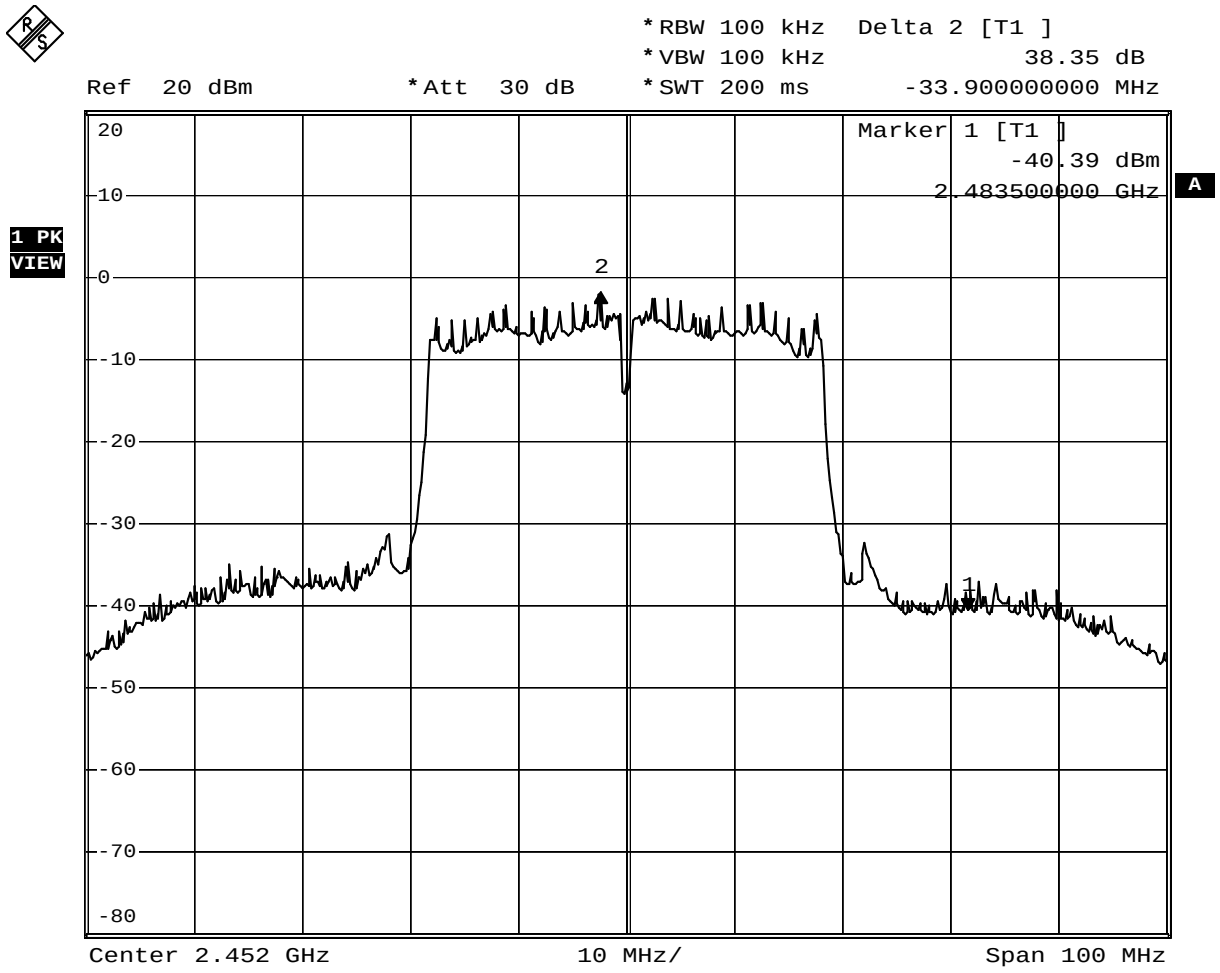
IEEE 802.11n (ANT B (40MHz)), Antenna Gain: 2.5dBi, Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	28.56	≧ 20	Pass
9	2452	38.35	≧ 20	Pass

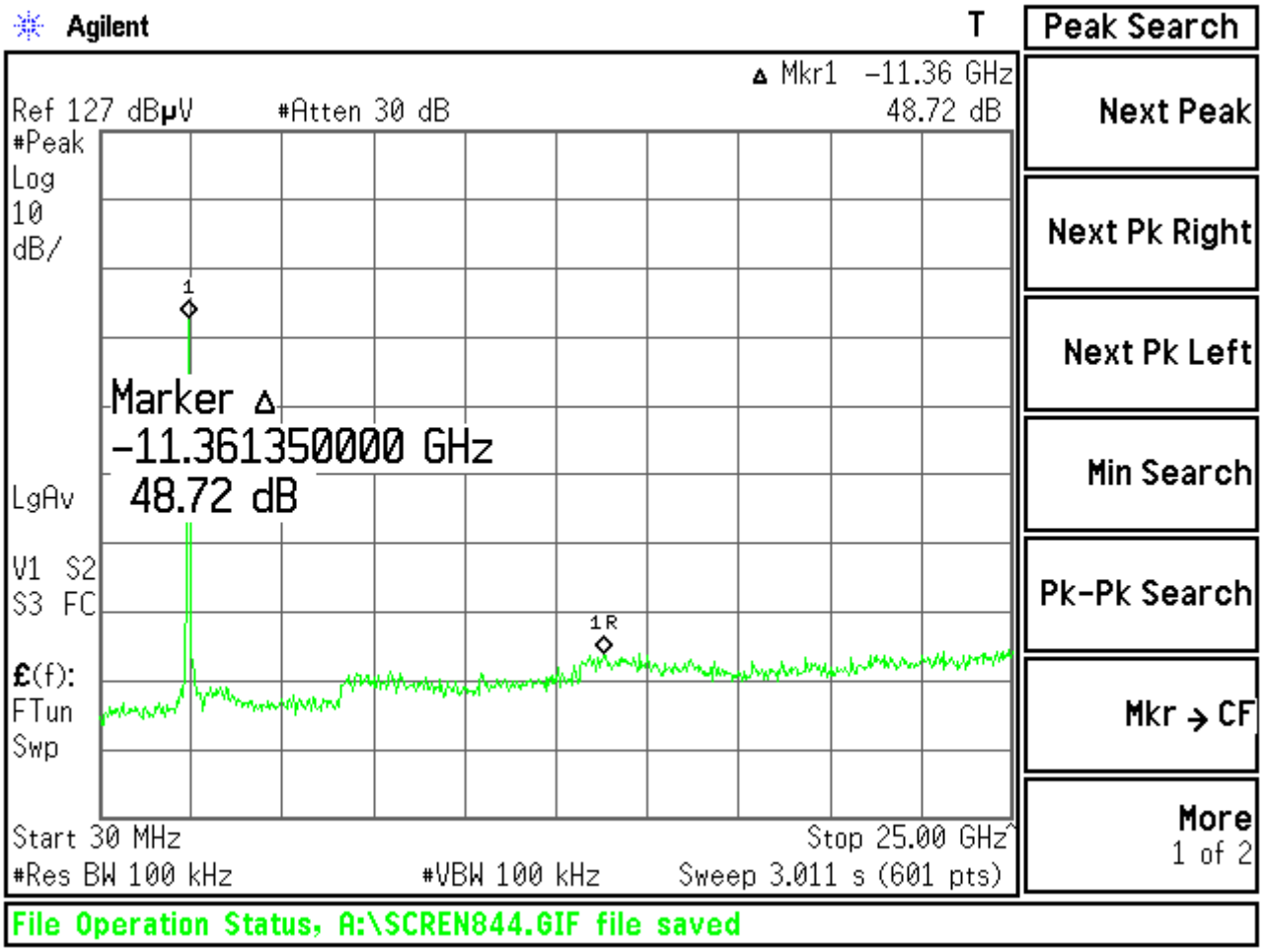
Channel 3 (2422MHz)




Agilent
T
Peak Search
Mkr1 -22.10 GHz
Ref 127 dBµV
#Atten 30 dB
50.70 dB
Next Peak
#Peak
Log
10
dB/
Next Pk Right
Next Pk Left
Marker Δ
-22.098450000 GHz
50.70 dB
LgAv
Min Search
V1 S2
S3 FC
Pk-Pk Search
£(f):
FTun
Swp
Mkr → CF
More
1 of 2
Start 30 MHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 3.011 s (601 pts)
Unable to save file

Channel 9 (2452MHz)




Agilent
T
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Mkr1 -11.36 GHz
48.72 dB
Ref 127 dBµV
#Atten 30 dB
#Peak
Log
10
dB/
Marker Δ
-11.361350000 GHz
48.72 dB
LgAv
V1 S2
S3 FC
£(f):
FTun
Swp
Start 30 MHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 3.011 s (601 pts)
File Operation Status, A:\SCREN844.GIF file saved

6. Radiated Emission Band Edge

6.1. Test Equipment

The following test equipments are used during the test:

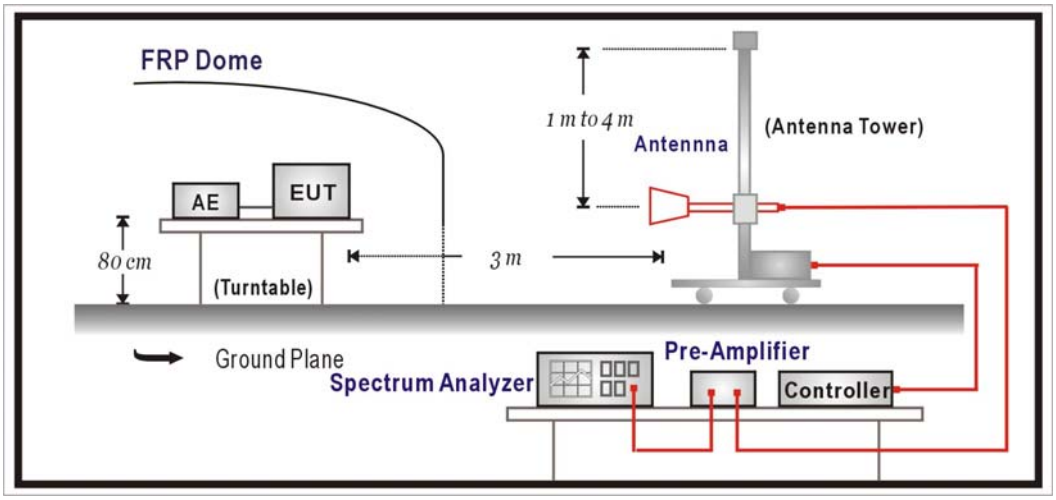
RF Radiated Measurement:					
Item	Equipment		Manufacturer	Model No. / Serial No.	Last Cal.
1	X	Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2008
2	X	Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2009
3		Loop Antenna	R & S	HFH2-Z2 / 833799/004	Sep., 2008
4		BiconiLog Antenna	Schwarzbeck	VULB 9166 / 1061	Sep., 2008
5		Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2008
6	X	Horn Antenna	Schwarzbeck	BBHA 9120D / BBHA9120D312	Sep., 2008
7	No.1 OATS				Sep., 2008

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

2. Test instruments are marked with “X” are used to measure the final test results.

6.2. Test Setup

RF Radiated Measurement:



6.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

6.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.
The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 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 is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2003 on radiated measurement.

6.5. Uncertainty

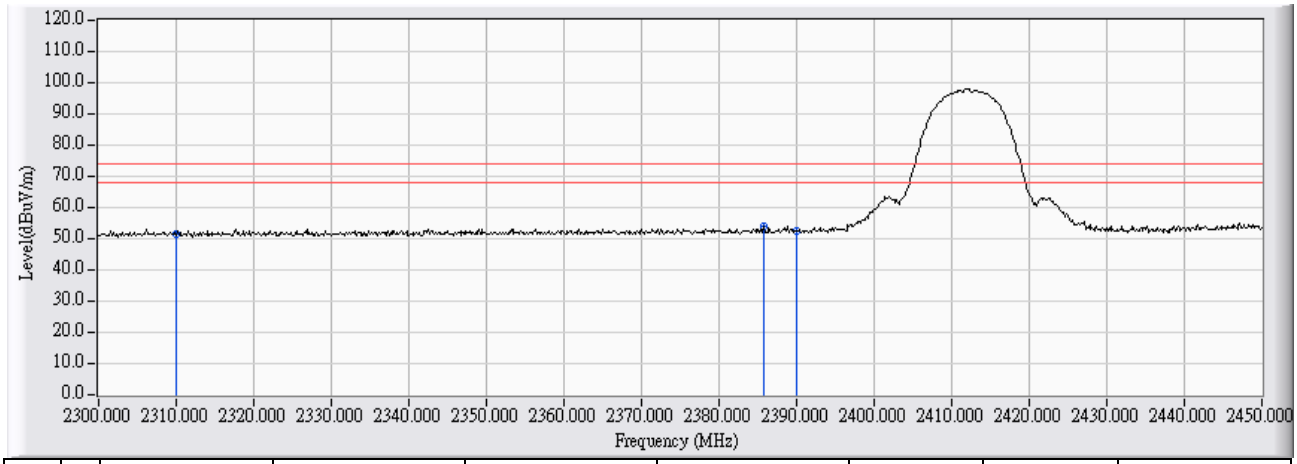
The measurement uncertainty

± 3.9 dB above 1GHz

6.6. Test Result

Radiated is defined as

Site : Site1	**Time : 2009/07/03 - 15:21**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : BandEdge - B - 2412MHz**

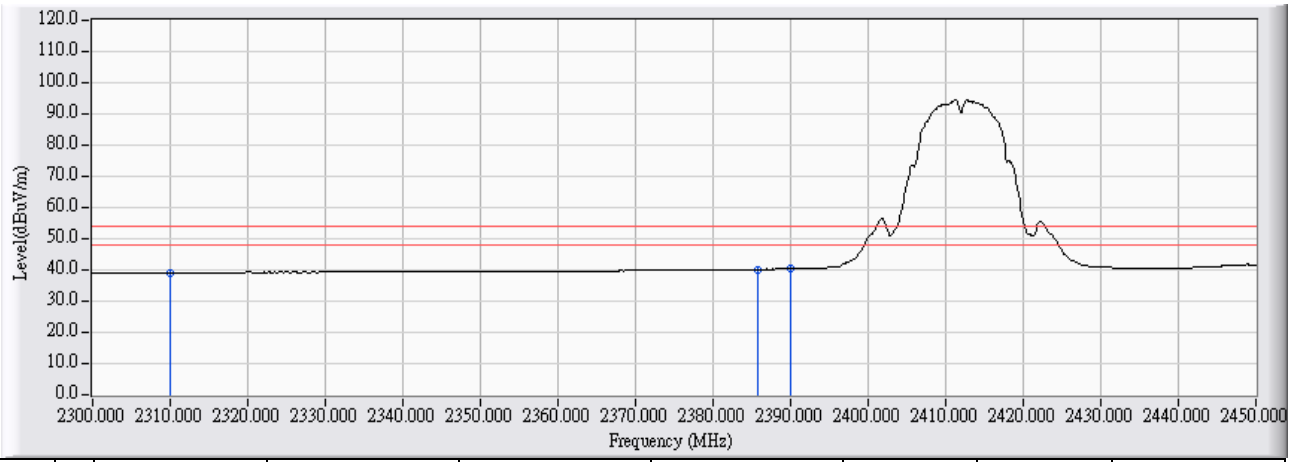


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	27.154	24.230	51.384	-22.616	74.000	PEAK
2	*	2385.800	27.529	26.634	54.162	-19.838	74.000	PEAK
3		2390.000	27.549	25.019	52.568	-21.432	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/03 - 15:22**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : BandEdge - B - 2412MHz**

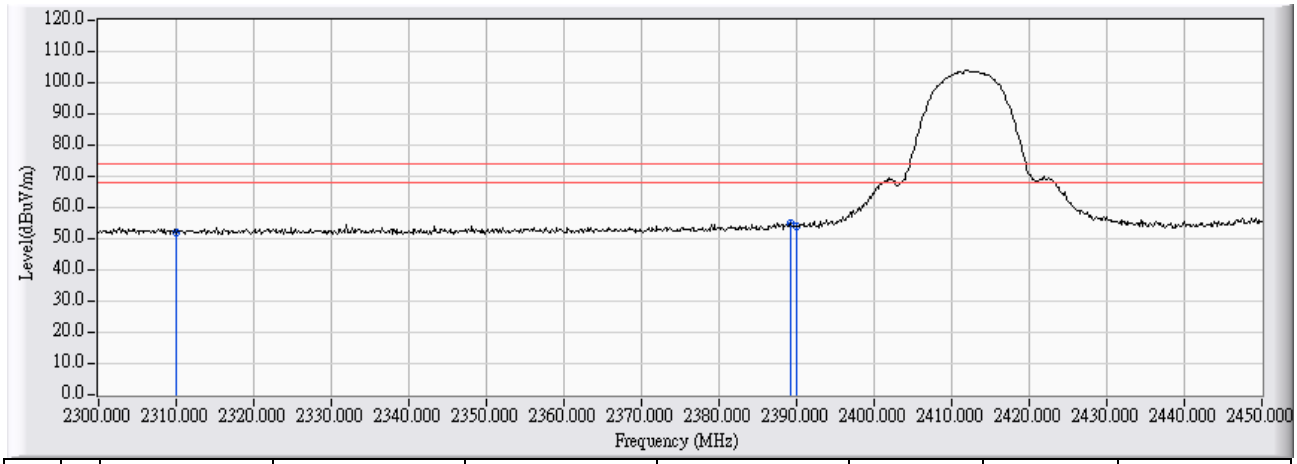


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	27.154	11.998	39.152	-14.848	54.000	AVERAGE
2		2385.800	27.529	12.665	40.193	-13.807	54.000	AVERAGE
3	*	2390.000	27.549	12.776	40.325	-13.675	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/03 - 15:46**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : BandEdge - B - 2412MHz**

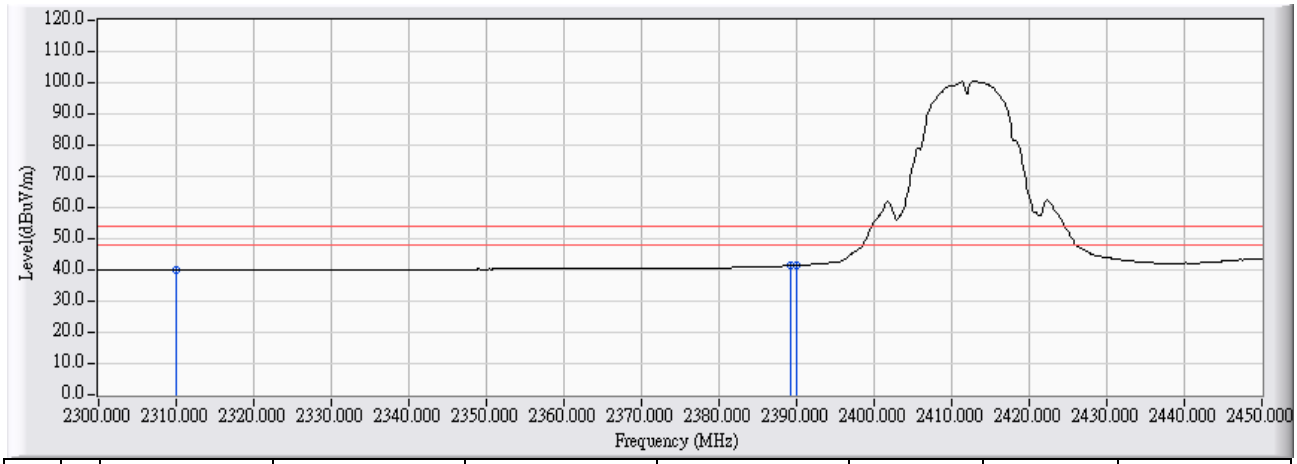


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	27.780	24.341	52.121	-21.879	74.000	PEAK
2	*	2389.250	27.374	27.707	55.081	-18.919	74.000	PEAK
3		2390.000	27.371	26.401	53.771	-20.229	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/03 - 15:47**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : BandEdge - B - 2412MHz**

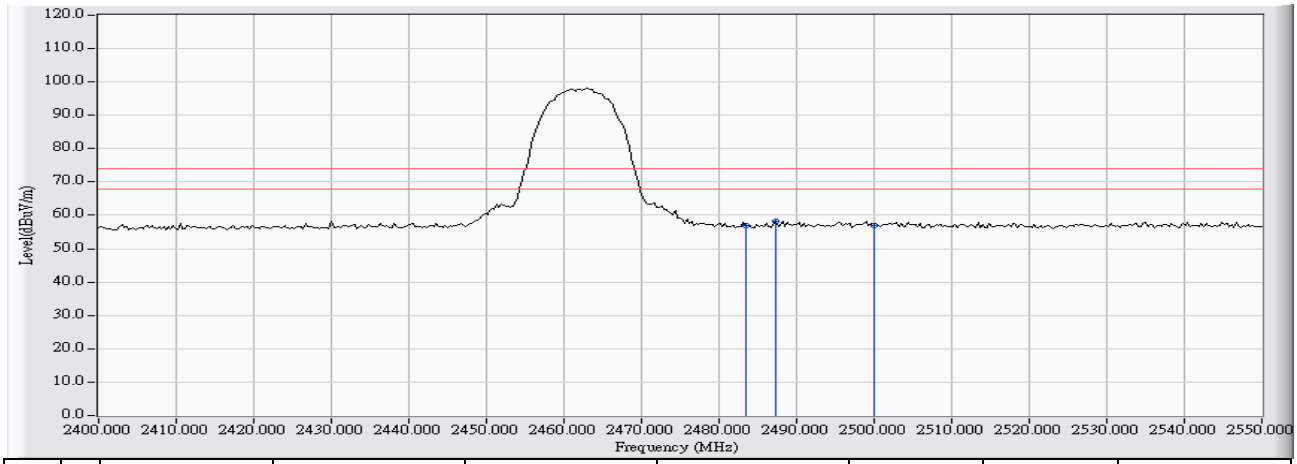


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	27.780	12.170	39.950	-14.050	54.000	AVERAGE
2		2389.250	27.374	14.009	41.383	-12.617	54.000	AVERAGE
3	*	2390.000	27.371	14.118	41.488	-12.512	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/07 - 13:10**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Bandedge - B - 2462**

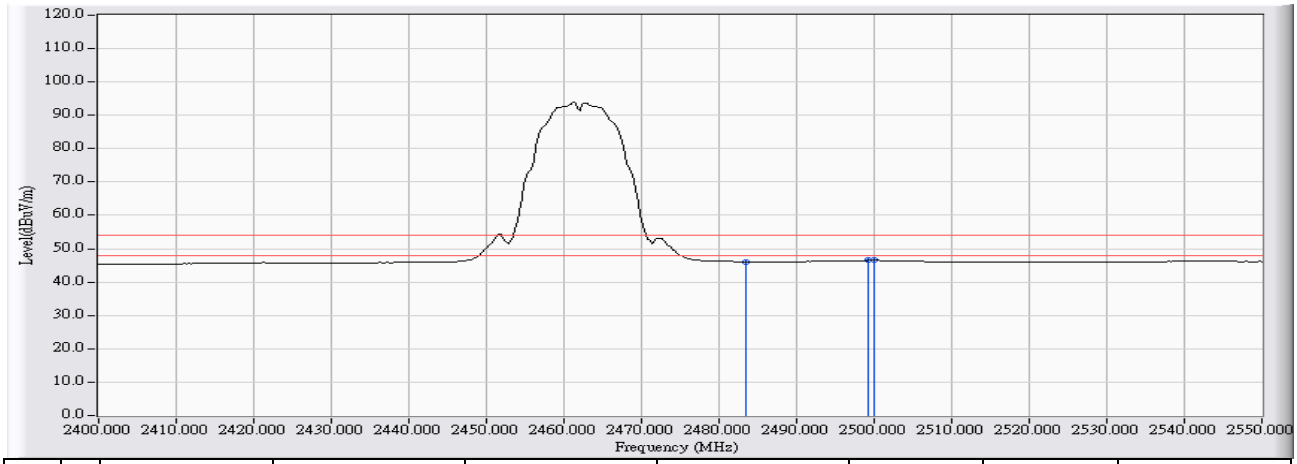


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	32.480	24.468	56.948	-17.052	74.000	PEAK
2	*	2487.300	32.498	25.755	58.253	-15.747	74.000	PEAK
3		2500.000	32.557	24.544	57.102	-16.898	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/07 - 13:11**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Bandedge - B - 2462**

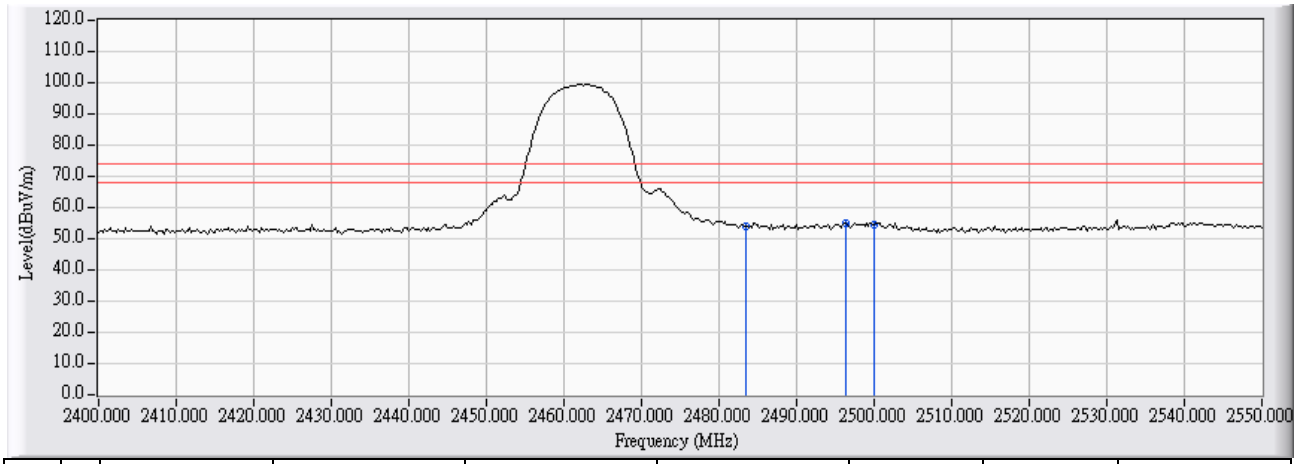


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	32.480	13.641	46.121	-7.879	54.000	AVERAGE
2	*	2499.300	32.555	13.958	46.513	-7.487	54.000	AVERAGE
3		2500.000	32.557	13.947	46.505	-7.495	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/03 - 16:34**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : BandEdge - B - 2462MHz**

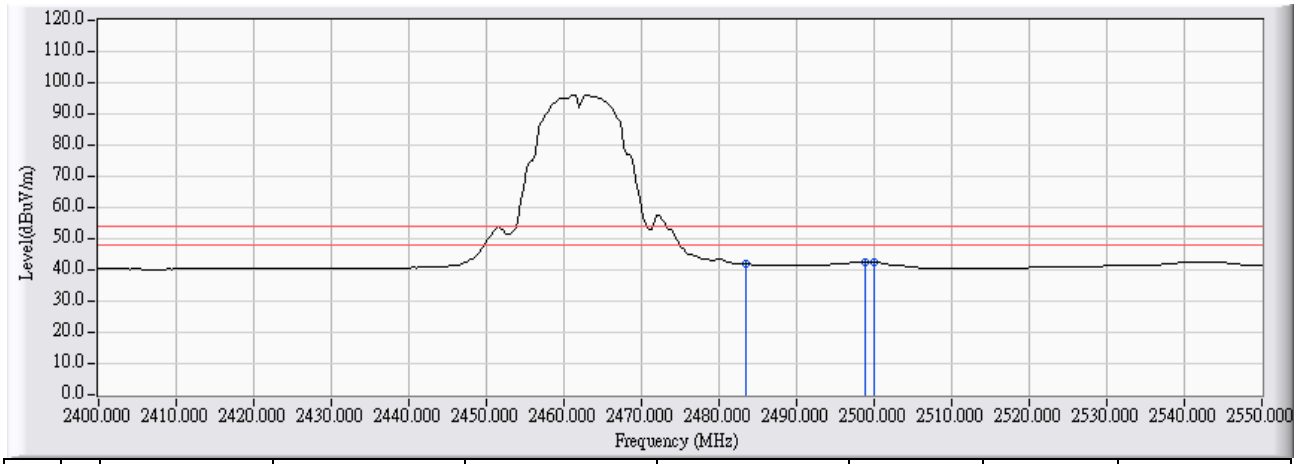


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	26.896	27.254	54.151	-19.849	74.000	PEAK
2	*	2496.250	26.824	28.358	55.182	-18.818	74.000	PEAK
3		2500.000	26.834	27.891	54.725	-19.275	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/03 - 16:35**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : BandEdge - B - 2462MHz**

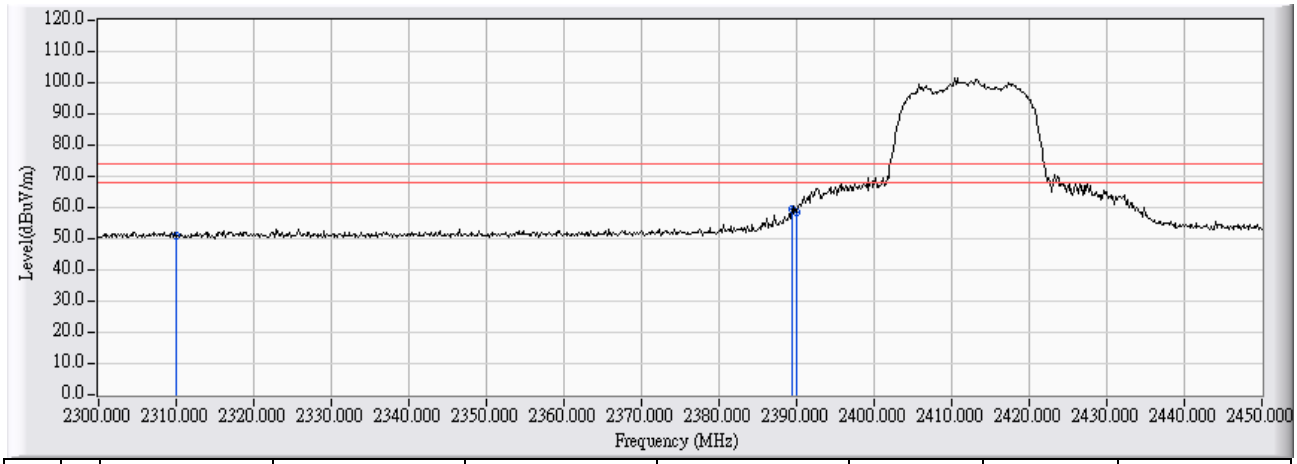


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	26.896	14.913	41.810	-12.190	54.000	AVERAGE
2	*	2498.750	26.830	15.634	42.465	-11.535	54.000	AVERAGE
3		2500.000	26.834	15.604	42.438	-11.562	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/03 - 15:29**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : BandEdge - G - 2412MHz**

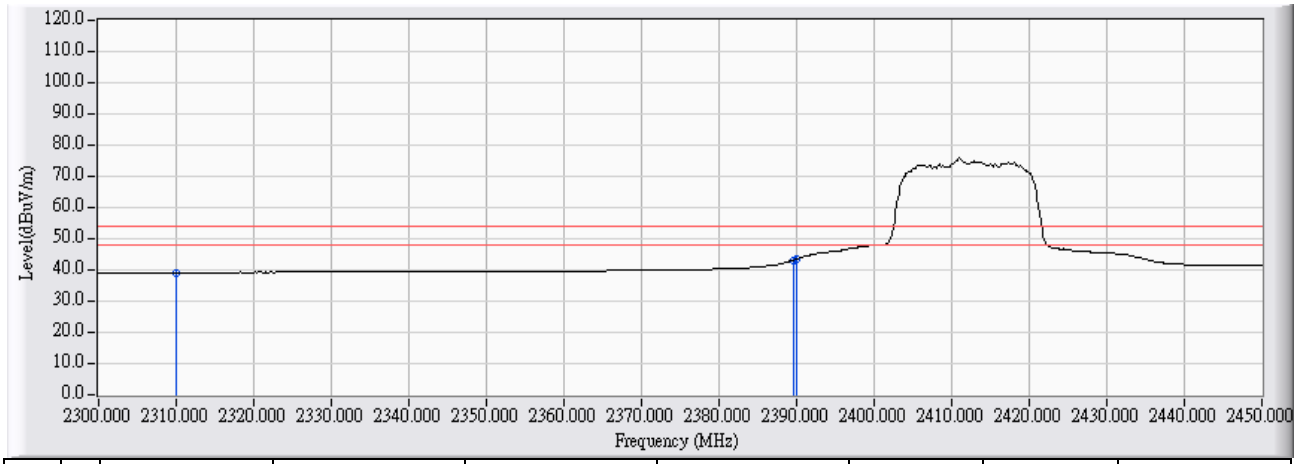


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	27.154	23.888	51.042	-22.958	74.000	PEAK
2	*	2389.400	27.546	31.764	59.310	-14.690	74.000	PEAK
3		2390.000	27.549	30.913	58.462	-15.538	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/03 - 15:30**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : BandEdge - G - 2412MHz**

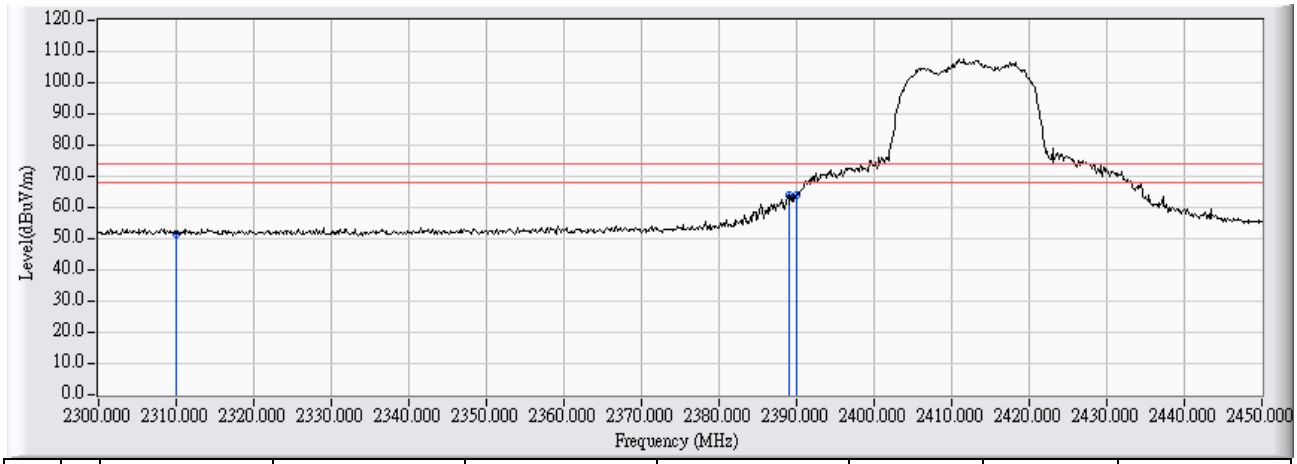


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	27.154	12.005	39.159	-14.841	54.000	AVERAGE
2		2389.550	27.546	15.549	43.095	-10.905	54.000	AVERAGE
3	*	2390.000	27.549	15.971	43.520	-10.480	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/03 - 15:49**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : BandEdge - G - 2412MHz**

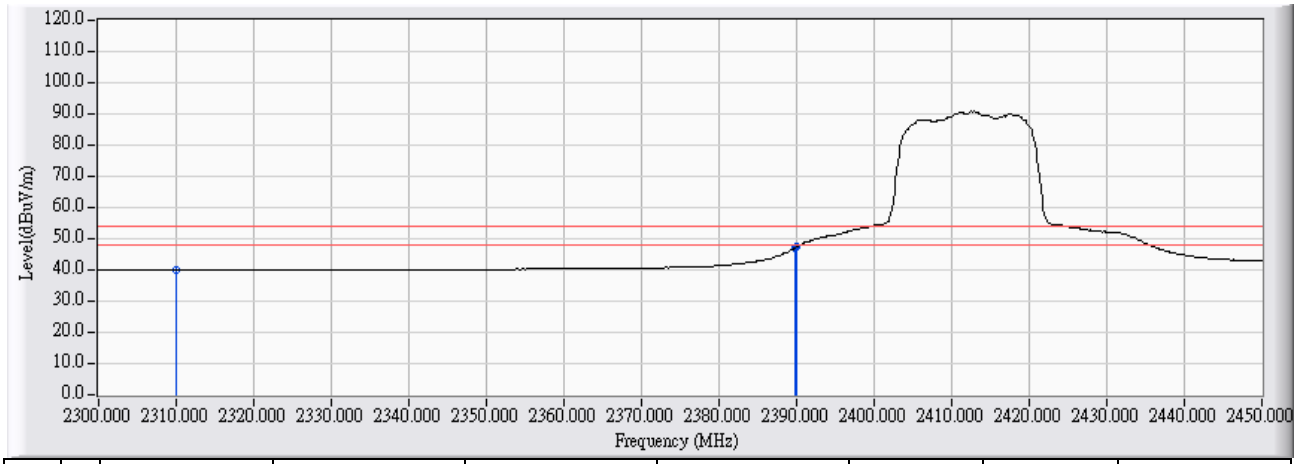


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	27.780	23.901	51.681	-22.319	74.000	PEAK
2	*	2388.950	27.376	36.870	64.246	-9.754	74.000	PEAK
3		2390.000	27.371	36.873	64.243	-9.757	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/03 - 15:50**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : BandEdge - G - 2412MHz**

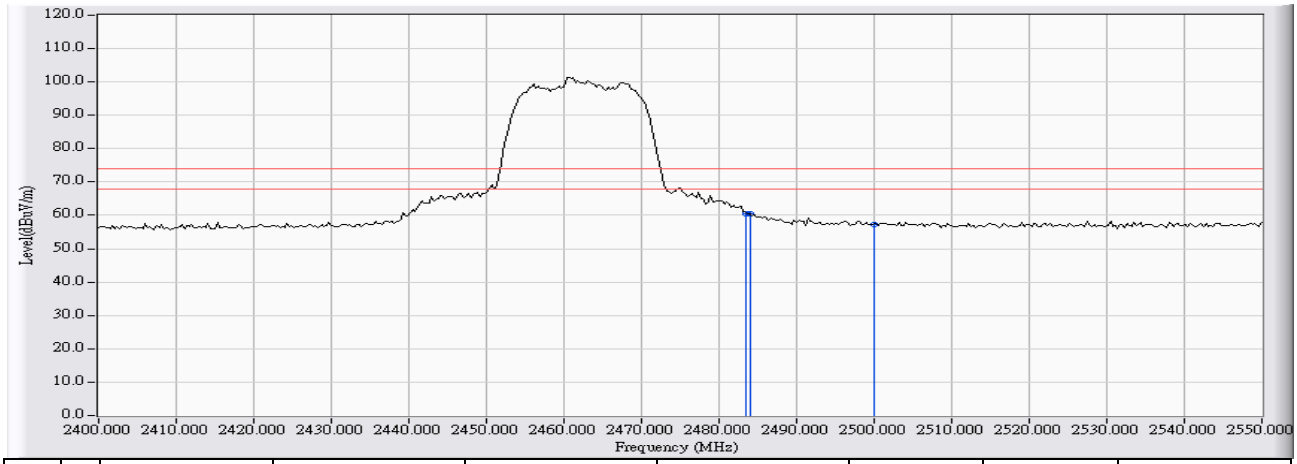


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	27.780	12.116	39.896	-14.104	54.000	AVERAGE
2		2389.850	27.371	19.770	47.141	-6.859	54.000	AVERAGE
3	*	2390.000	27.371	20.018	47.388	-6.612	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/07 - 13:13**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Bandedge - G - 2462**

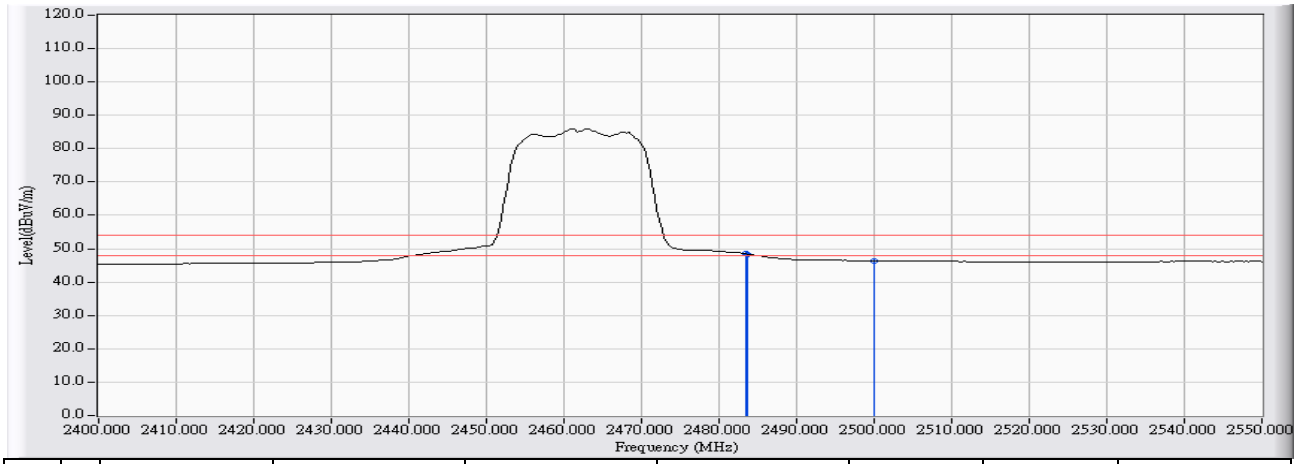


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	32.480	28.091	60.571	-13.429	74.000	PEAK
2		2484.000	32.482	27.895	60.377	-13.623	74.000	PEAK
3		2500.000	32.557	24.704	57.262	-16.738	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/07 - 13:13**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Bandedge - G - 2462**

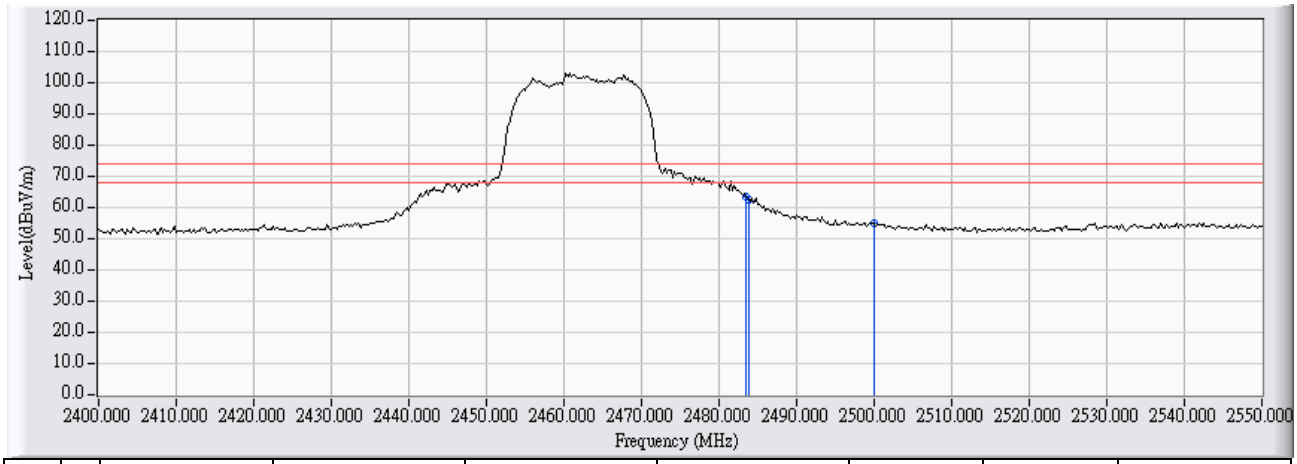


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	32.480	15.944	48.424	-5.576	54.000	AVERAGE
2		2483.700	32.481	15.862	48.343	-5.657	54.000	AVERAGE
3		2500.000	32.557	13.866	46.424	-7.576	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/03 - 16:29**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : BandEdge - G - 2462MHz**

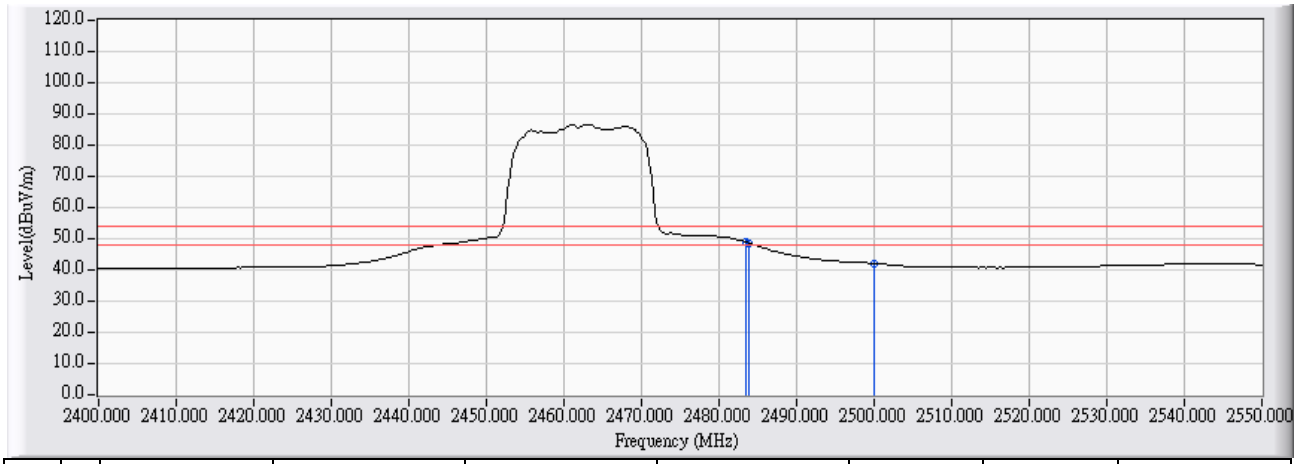


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	26.896	36.403	63.300	-10.700	74.000	PEAK
2		2483.750	26.896	35.849	62.744	-11.256	74.000	PEAK
3		2500.000	26.834	28.017	54.851	-19.149	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/03 - 16:32**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : BandEdge - G - 2462MHz**

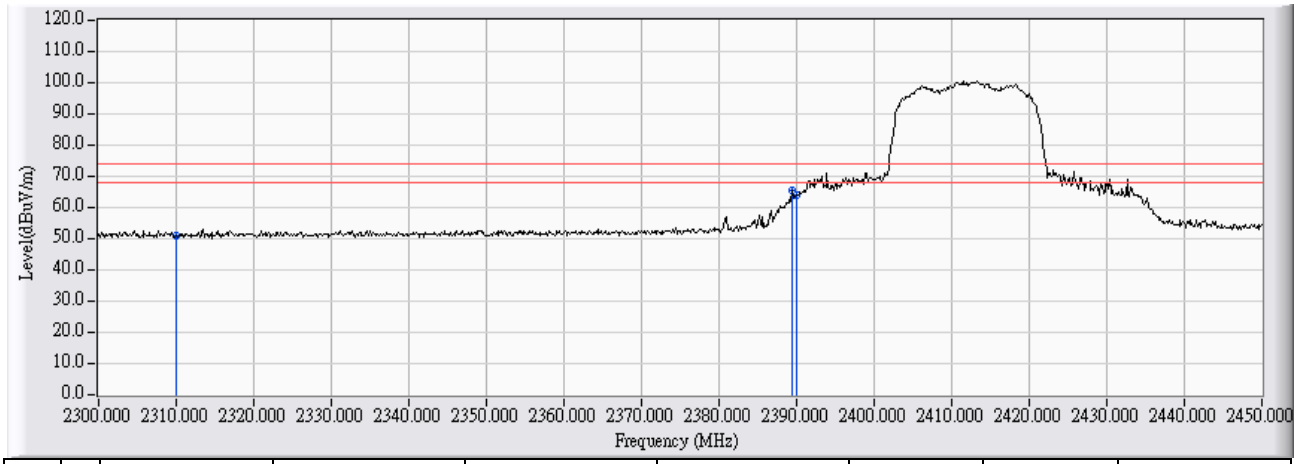


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	26.896	22.039	48.936	-5.064	54.000	AVERAGE
2		2483.750	26.896	21.851	48.746	-5.254	54.000	AVERAGE
3		2500.000	26.834	15.324	42.158	-11.842	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/03 - 15:35**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : BandEdge - N_20MHz - 2412MHz**

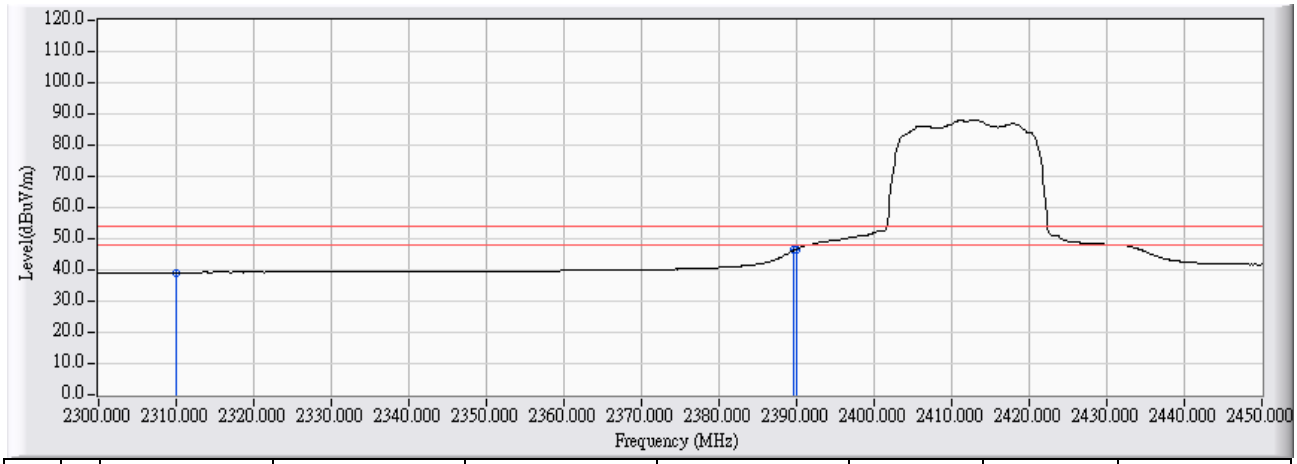


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	27.154	23.756	50.910	-23.090	74.000	PEAK
2	*	2389.400	27.546	37.901	65.447	-8.553	74.000	PEAK
3		2390.000	27.549	36.578	64.127	-9.873	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/03 - 15:36**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : BandEdge - N_20MHz - 2412MHz**

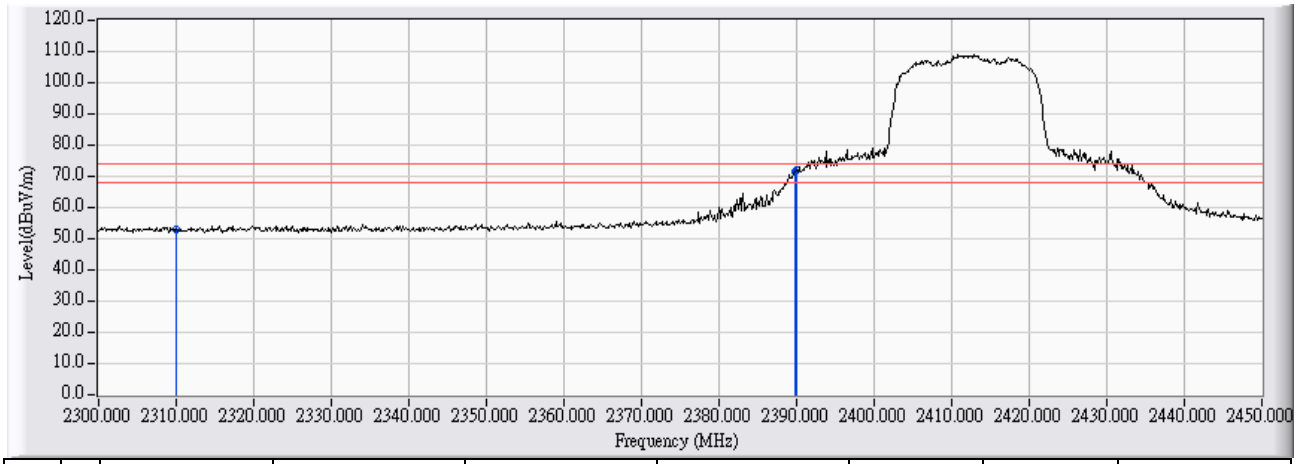


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	27.154	12.053	39.207	-14.793	54.000	AVERAGE
2		2389.700	27.547	18.798	46.345	-7.655	54.000	AVERAGE
3	*	2390.000	27.549	19.132	46.681	-7.319	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/03 - 15:41**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : BandEdge - N_20MHz - 2412MHz**

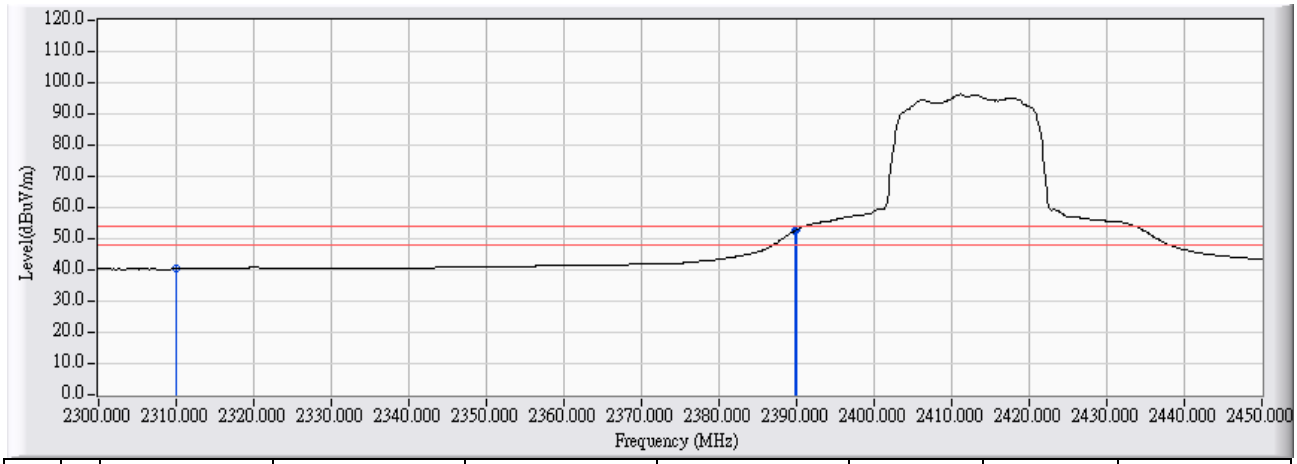


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	27.780	25.183	52.963	-21.037	74.000	PEAK
2		2389.850	27.371	43.926	71.297	-2.703	74.000	PEAK
3	*	2390.000	27.371	44.753	72.123	-1.877	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/03 - 15:43**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : BandEdge - N_20MHz - 2412MHz**

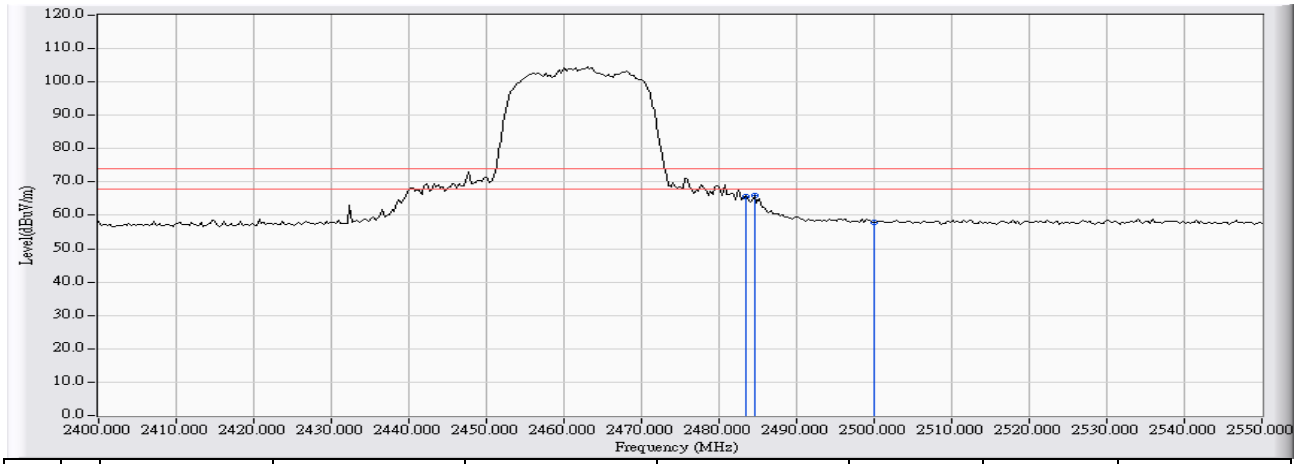


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	27.780	12.486	40.266	-13.734	54.000	AVERAGE
2		2389.850	27.371	25.285	52.656	-1.344	54.000	AVERAGE
3	*	2390.000	27.371	25.513	52.883	-1.117	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/07 - 13:06**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Bandedge – N_20MHz - 2462 MHz**

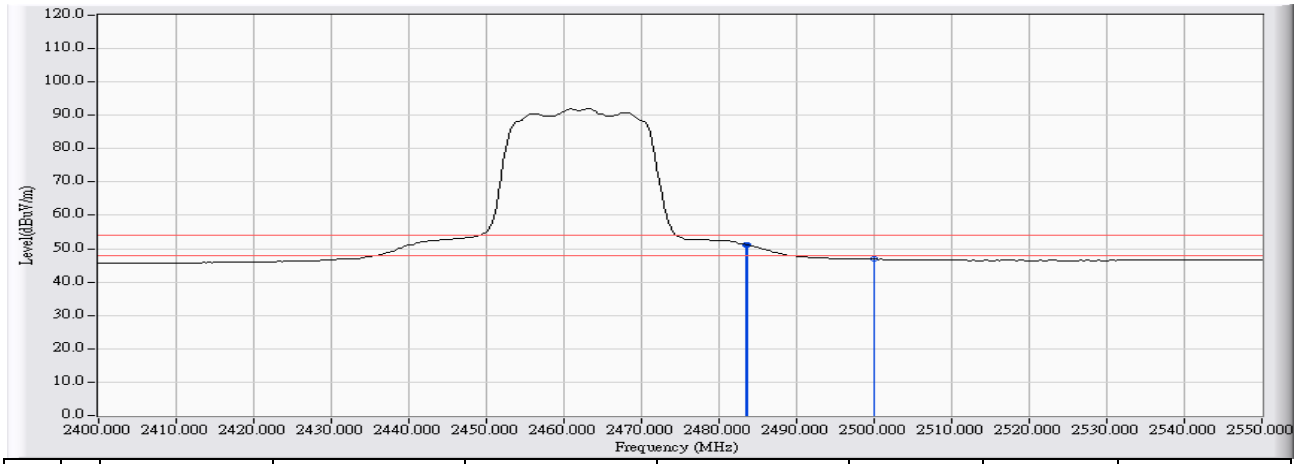


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	32.480	33.051	65.531	-8.469	74.000	PEAK
2	*	2484.600	32.485	33.421	65.906	-8.094	74.000	PEAK
3		2500.000	32.557	25.378	57.936	-16.064	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/07 - 13:07**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Bandedge – N_20MHz - 2462 MHz**

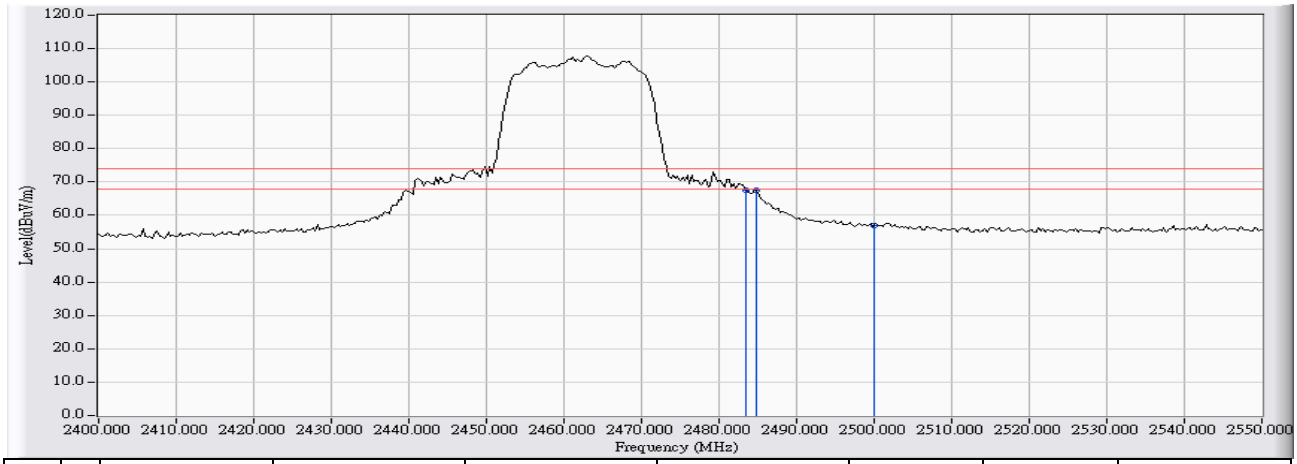


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	32.480	18.701	51.181	-2.819	54.000	AVERAGE
2		2483.700	32.481	18.627	51.108	-2.892	54.000	AVERAGE
3		2500.000	32.557	14.264	46.822	-7.178	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/07 - 11:59**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Bandedge – N_20MHz - 2462 MHz**

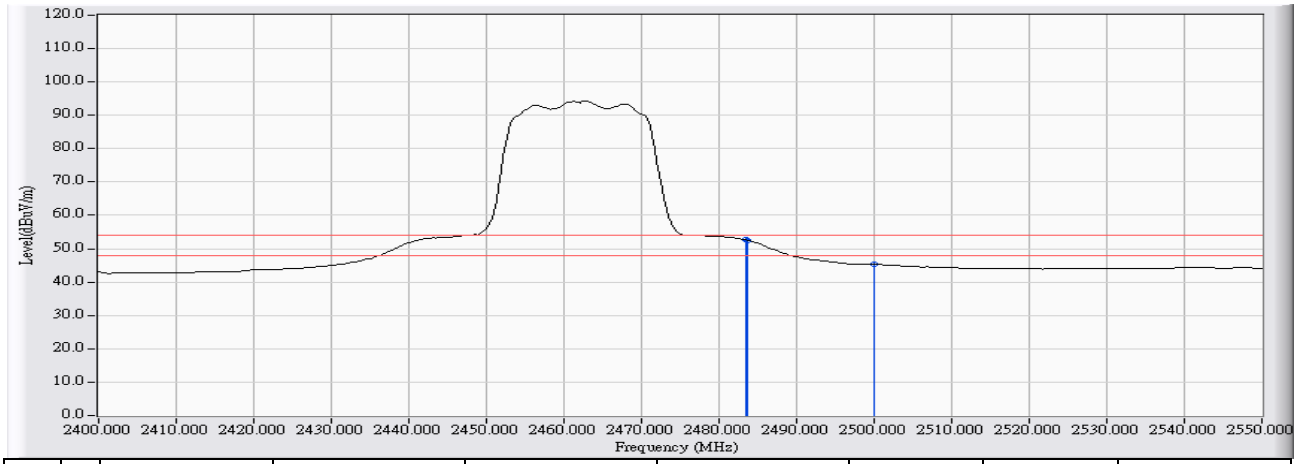


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	28.156	39.559	67.714	-6.286	74.000	PEAK
2		2484.900	28.150	39.344	67.494	-6.506	74.000	PEAK
3		2500.000	28.142	28.857	56.999	-17.001	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/07 - 11:58**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Bandedge – N_20MHz - 2462 MHz**

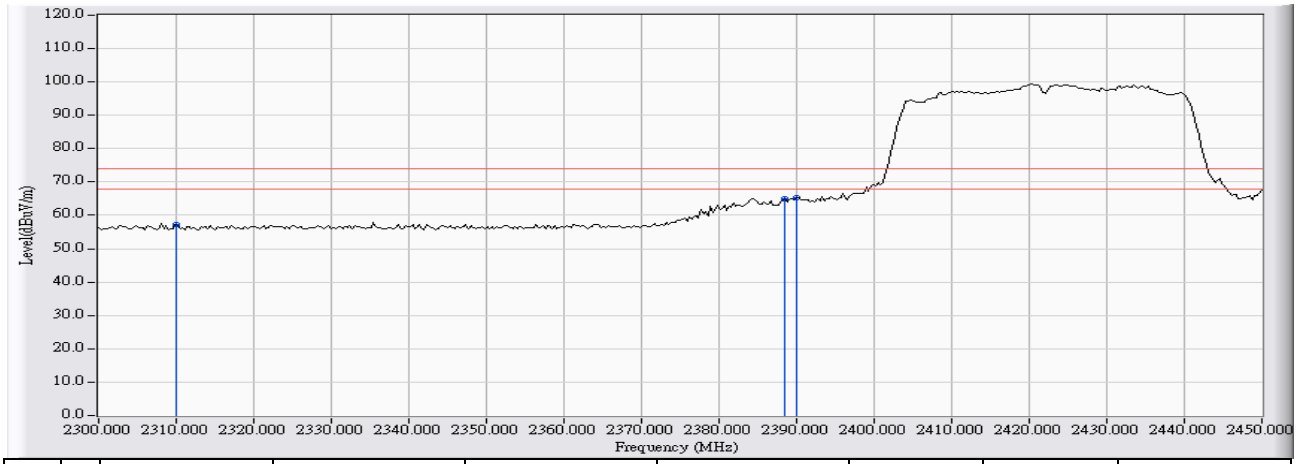


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	28.156	24.495	52.650	-1.350	54.000	AVERAGE
2		2483.700	28.155	24.343	52.498	-1.502	54.000	AVERAGE
3		2500.000	28.142	17.153	45.295	-8.705	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/07 - 11:17**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Bandedge – N_40MHz - 2422 MHz**

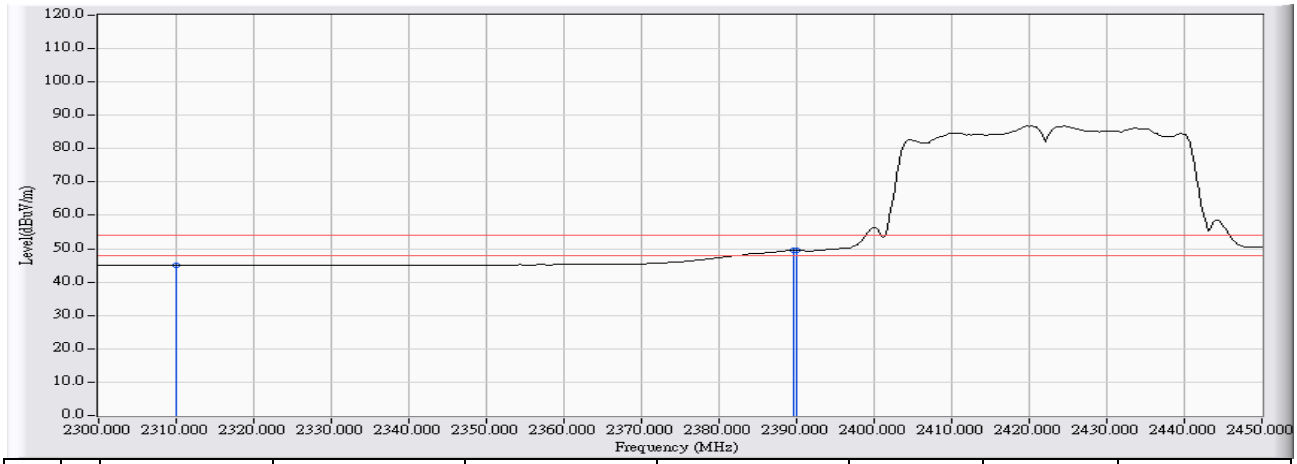


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	31.658	25.629	57.286	-16.714	74.000	PEAK
2		2388.500	32.029	32.992	65.021	-8.979	74.000	PEAK
3	*	2390.000	32.036	33.250	65.286	-8.714	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/07 - 11:18**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Bandedge – N_40MHz - 2422 MHz**

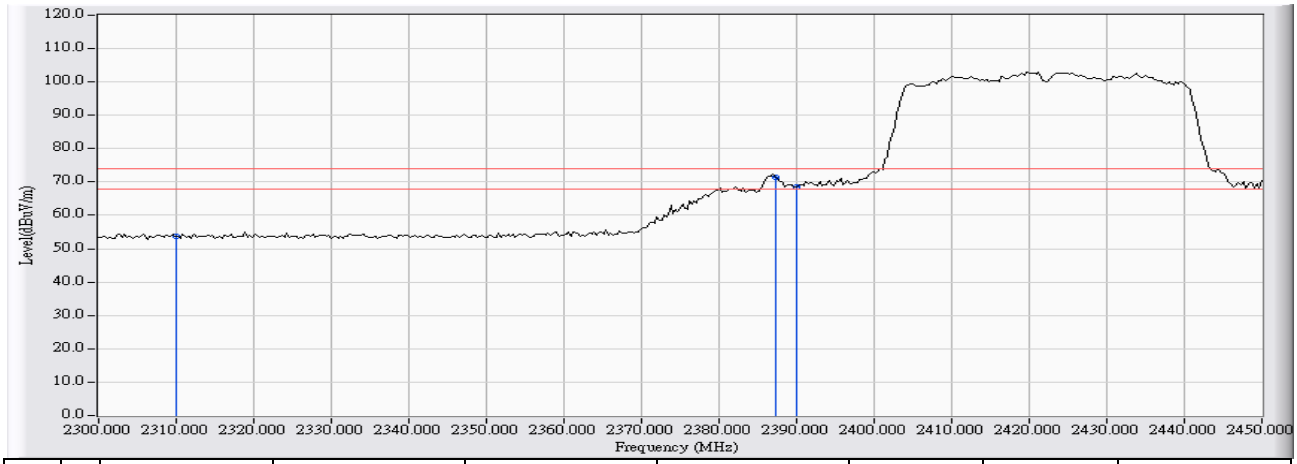


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	31.658	13.342	44.999	-9.001	54.000	AVERAGE
2	*	2389.700	32.034	17.509	49.543	-4.457	54.000	AVERAGE
3		2390.000	32.036	17.490	49.526	-4.474	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/07 - 11:09**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Bandedge – N_40MHz - 2422 MHz**

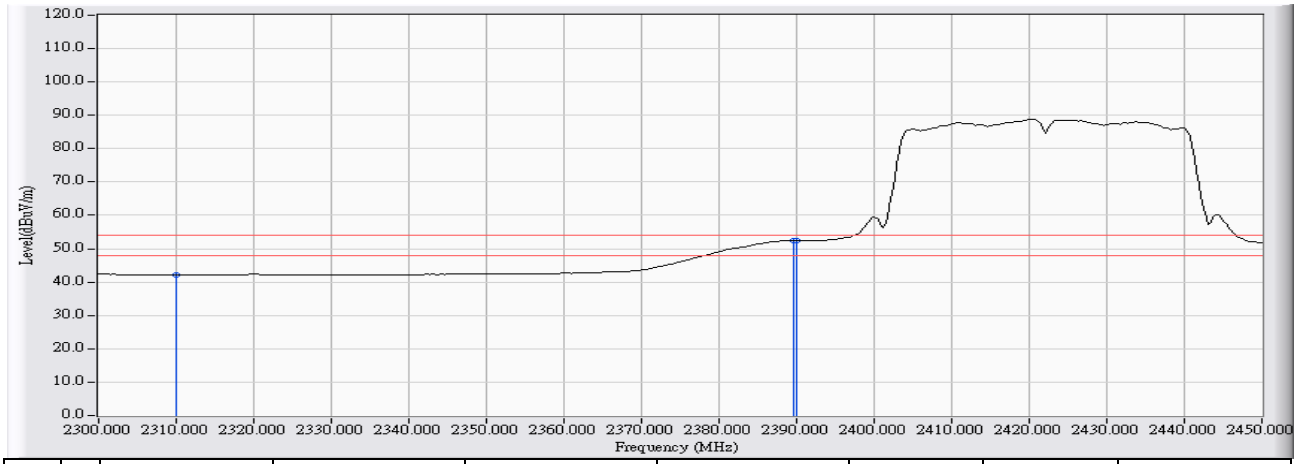


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	28.738	24.962	53.699	-20.301	74.000	PEAK
2	*	2387.300	28.478	42.912	71.390	-2.610	74.000	PEAK
3		2390.000	28.470	39.919	68.389	-5.611	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/07 - 11:07**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Bandedge – N_40MHz - 2422 MHz**

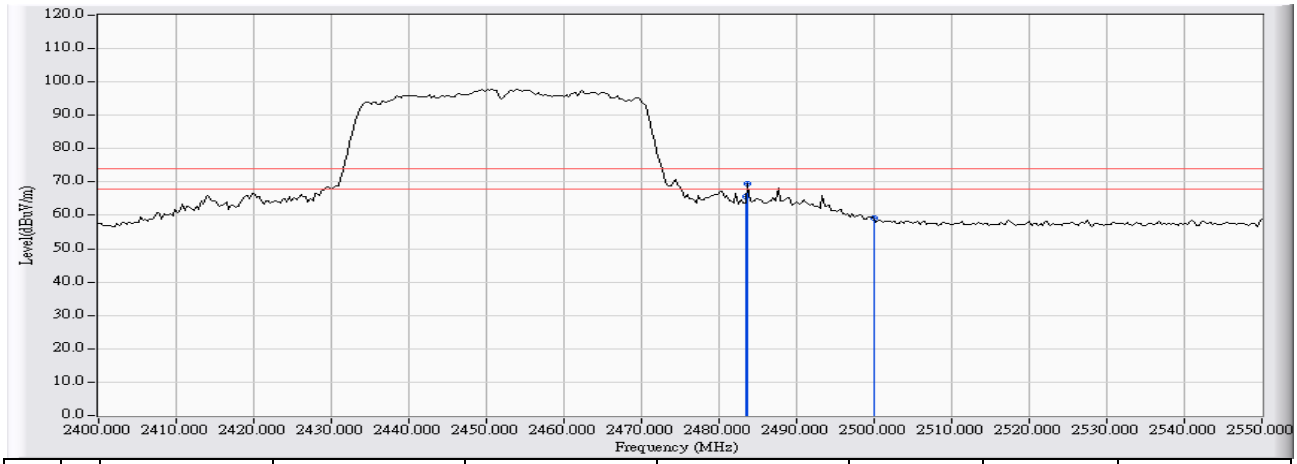


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	28.738	13.531	42.268	-11.732	54.000	AVERAGE
2		2389.700	28.470	23.854	52.325	-1.675	54.000	AVERAGE
3	*	2390.000	28.470	23.942	52.412	-1.588	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/07 - 11:36**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Bandedge – N_40MHz - 2452 MHz**

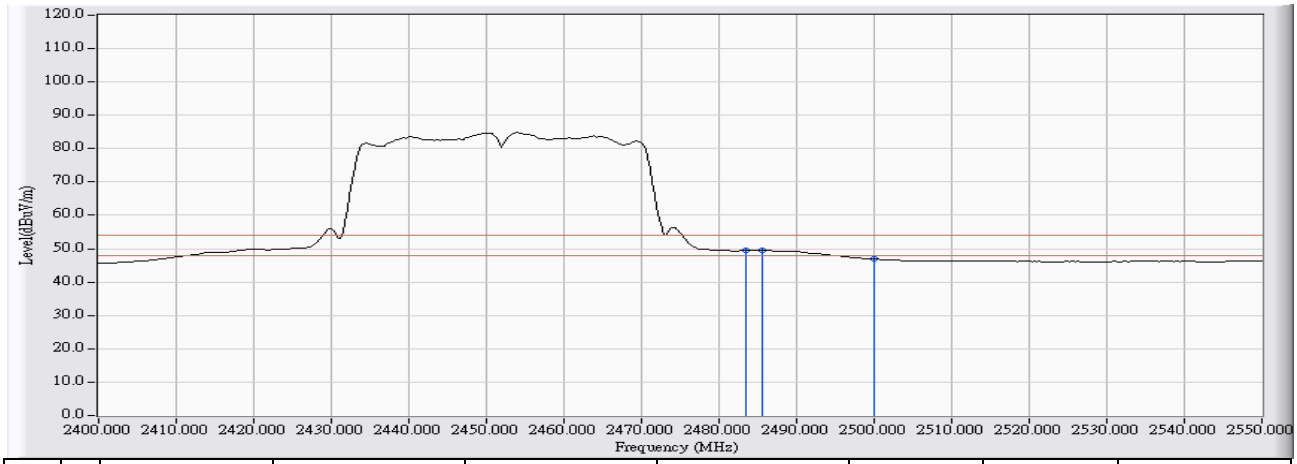


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	32.480	33.185	65.665	-8.335	74.000	PEAK
2	*	2483.700	32.481	37.053	69.534	-4.466	74.000	PEAK
3		2500.000	32.557	26.511	59.069	-14.931	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/07 - 11:38**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Bandedge – N_40MHz - 2452 MHz**

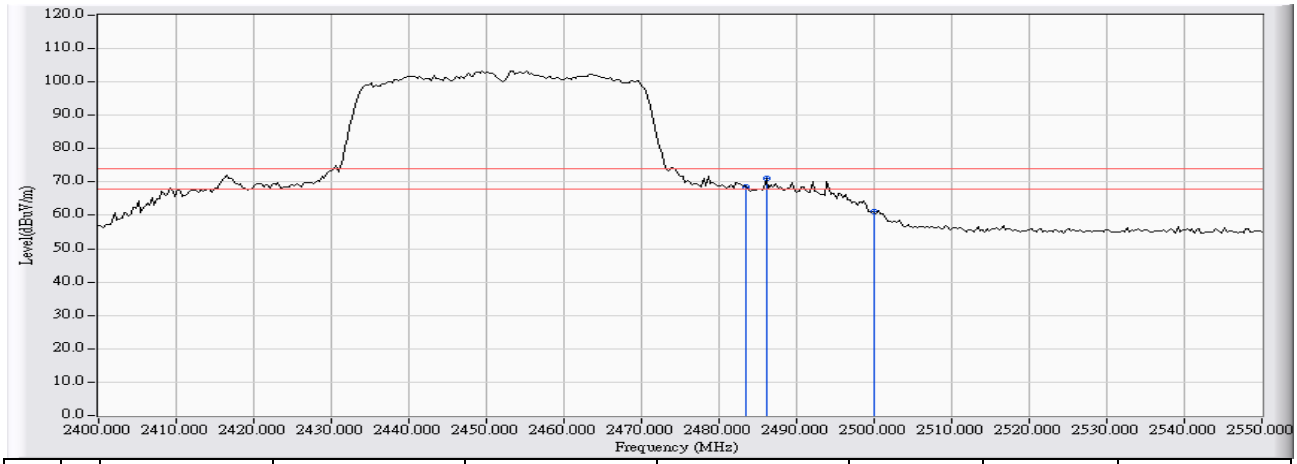


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	32.480	16.993	49.473	-4.527	54.000	AVERAGE
2	*	2485.500	32.490	17.134	49.624	-4.376	54.000	AVERAGE
3		2500.000	32.557	14.343	46.901	-7.099	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/07 - 11:30**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Bandedge – N_40MHz - 2452 MHz**

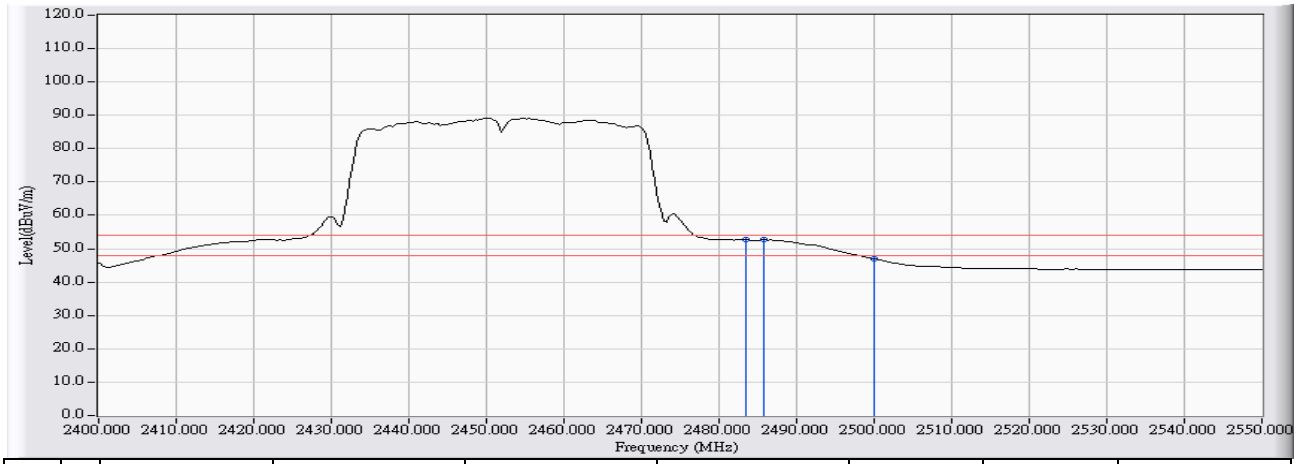


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	28.156	40.435	68.590	-5.410	74.000	PEAK
2	*	2486.100	28.145	42.871	71.016	-2.984	74.000	PEAK
3		2500.000	28.142	32.841	60.983	-13.017	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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 : Site1	**Time : 2009/07/07 - 11:31**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : Site1_FCC_EFS_1-18G(2009-06) - VERTICAL	**Power : AC 120V / 60Hz**
EUT : ASUS Wireless SuperSpeedN Router	**Note : Bandedge – N_40MHz - 2452 MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	28.156	24.471	52.626	-1.374	54.000	AVERAGE
2	*	2485.800	28.147	24.549	52.696	-1.304	54.000	AVERAGE
3		2500.000	28.142	18.755	46.897	-7.103	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, 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.

7. Occupied Bandwidth

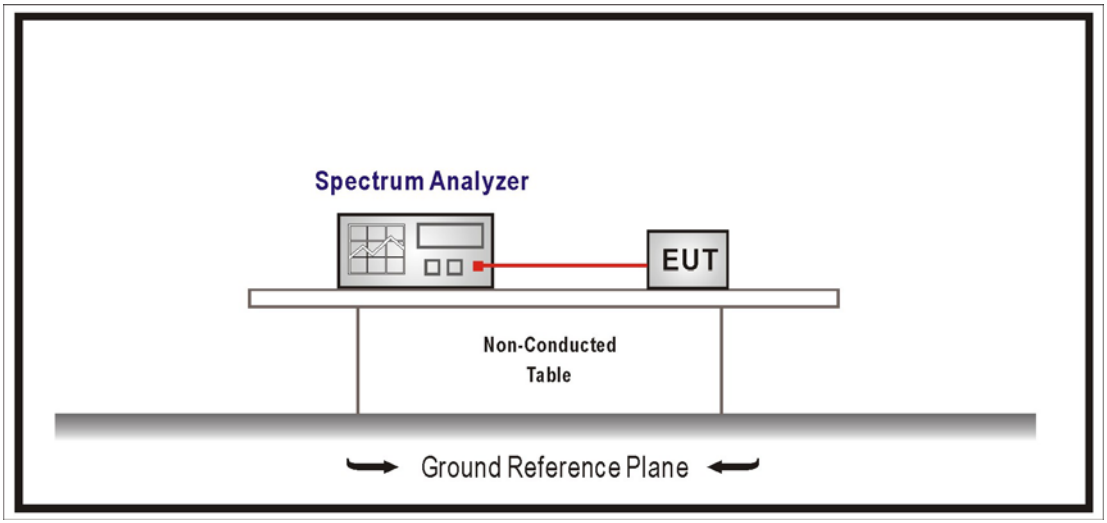
7.1. Test Equipment

The following test equipments are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Mar., 2009
2	No.1 OATS			Sep., 2008

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

7.2. Test Setup



7.3. Test Procedures

The EUT was setup according to ANSI C63.4, 2003; tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.
Set RBW = 100 KHz, Span greater than RBW.

7.4. Limits

The 6 dB bandwidth must be greater than 500 KHz.

7.5. Uncertainty

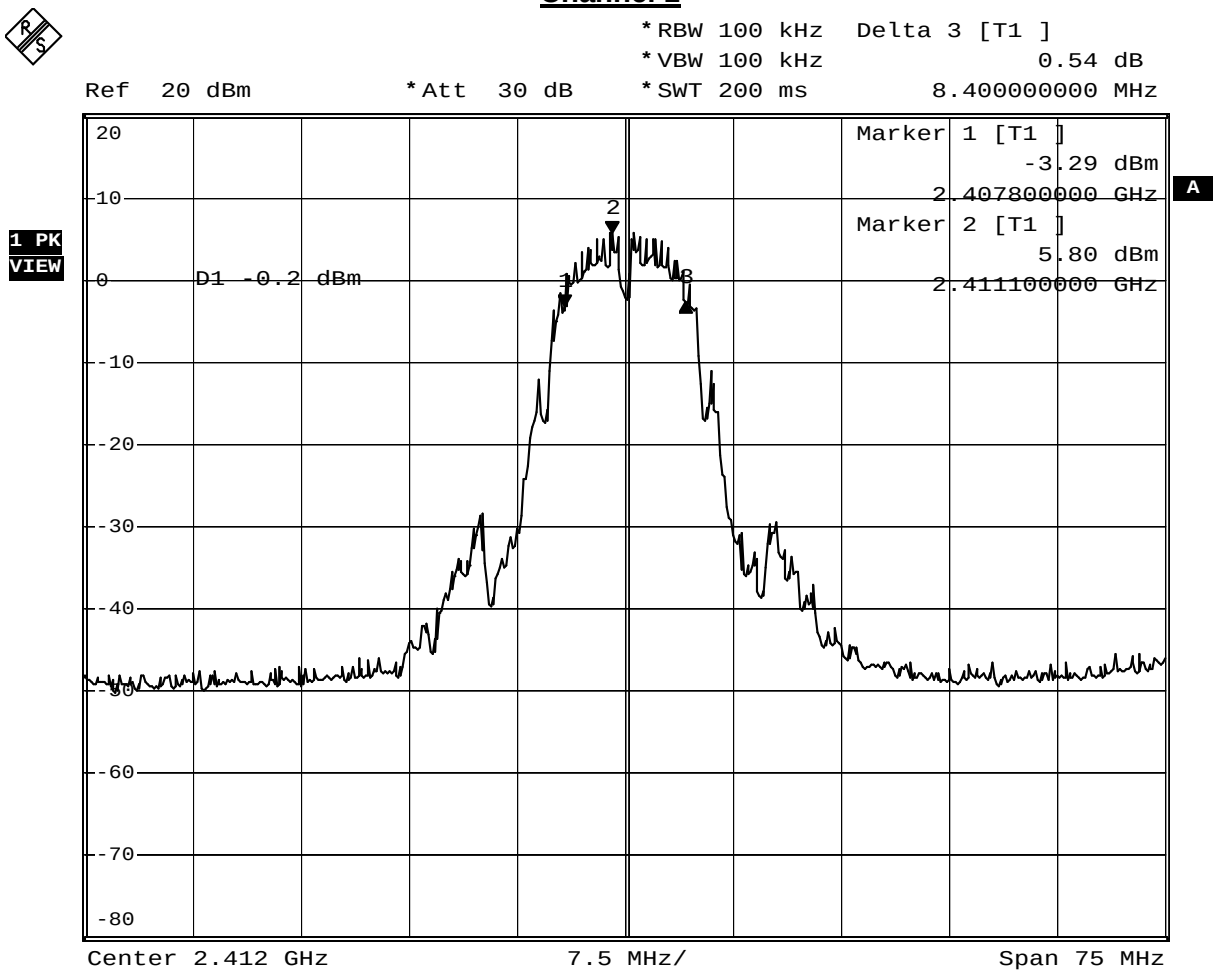
The measurement uncertainty is defined as ±150Hz

7.6. Test Result

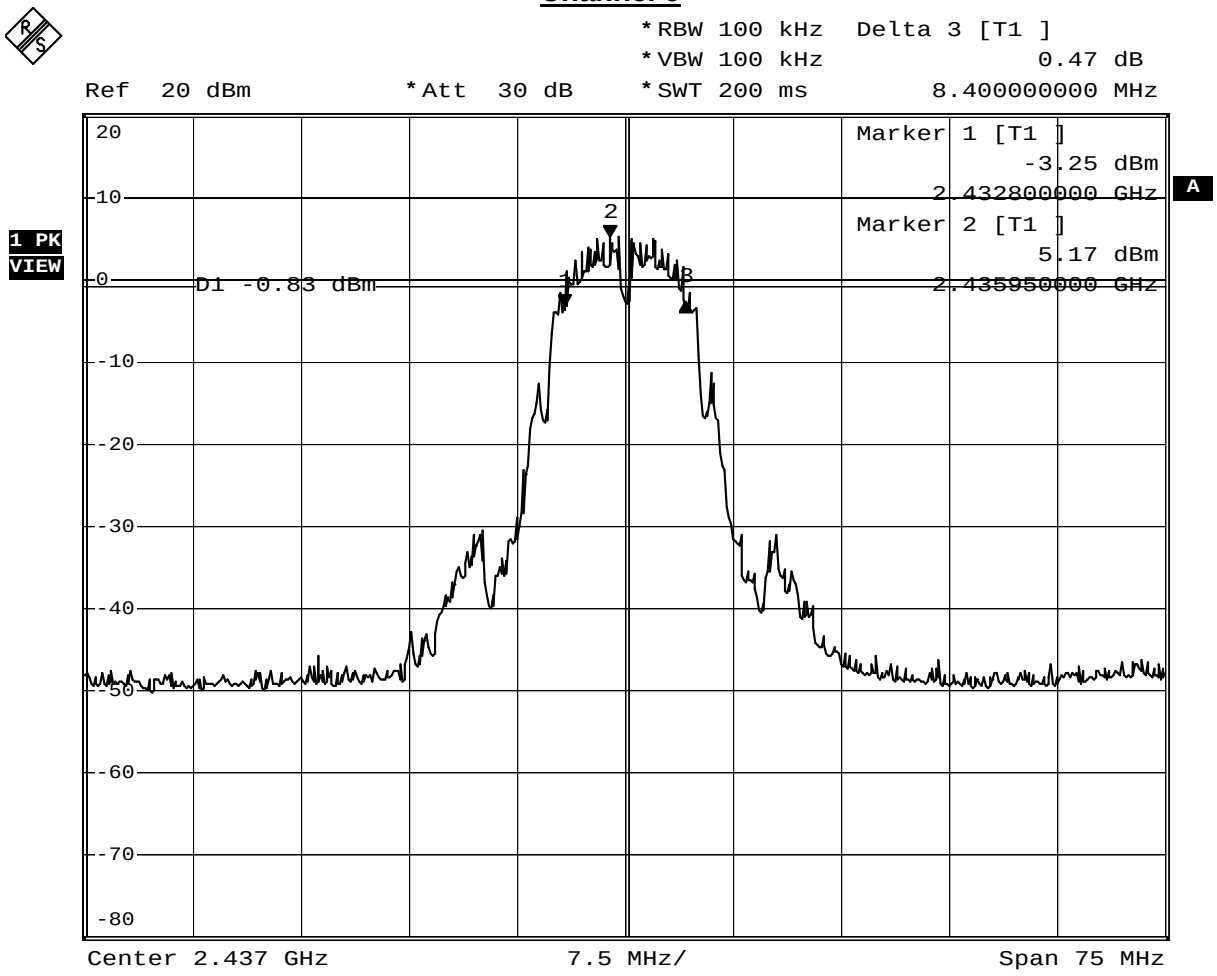
Product	ASUS Wireless SuperSpeedN Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

802.11 b				
Channel No.	Frequency (MHz)	Measurement Level (KHz)	Required Limit (KHz)	Result
1	2412.00	8400	≧500	Pass
6	2437.00	8400	≧500	Pass
11	2462.00	8400	≧500	Pass

Channel 1

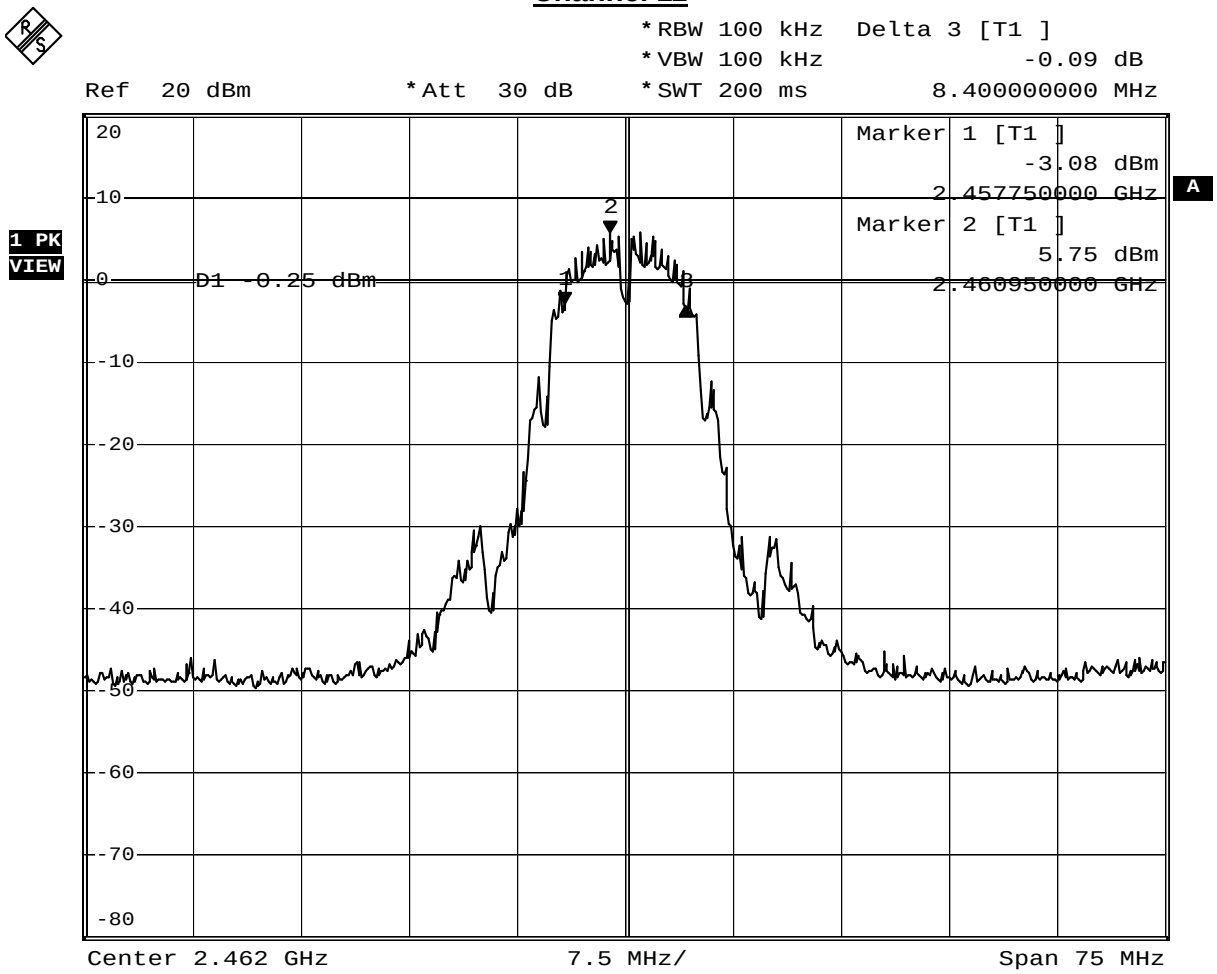


Channel 6



Date: 24.JUN.2009 14:55:27

Channel 11

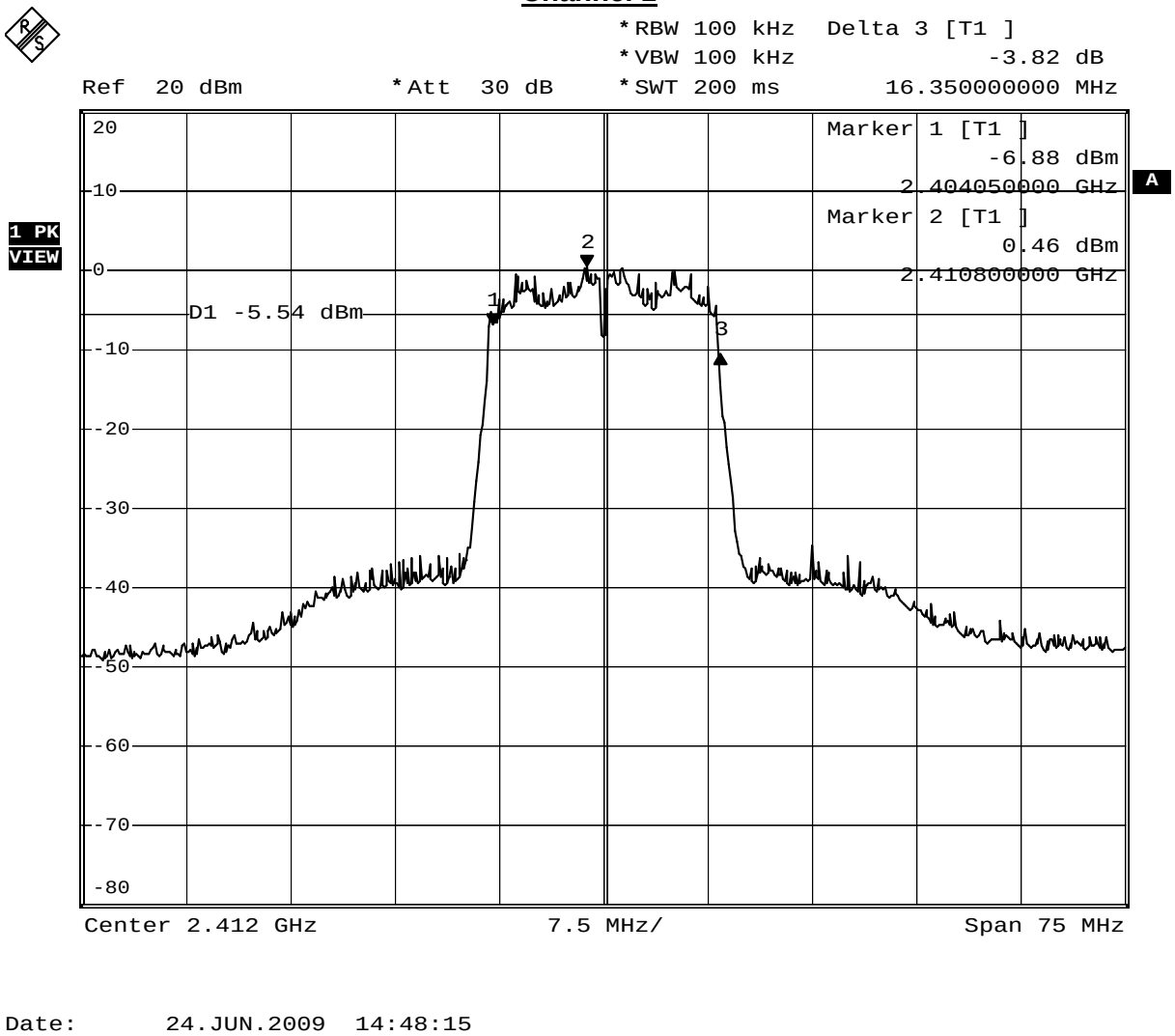


Date: 24.JUN.2009 12:14:52

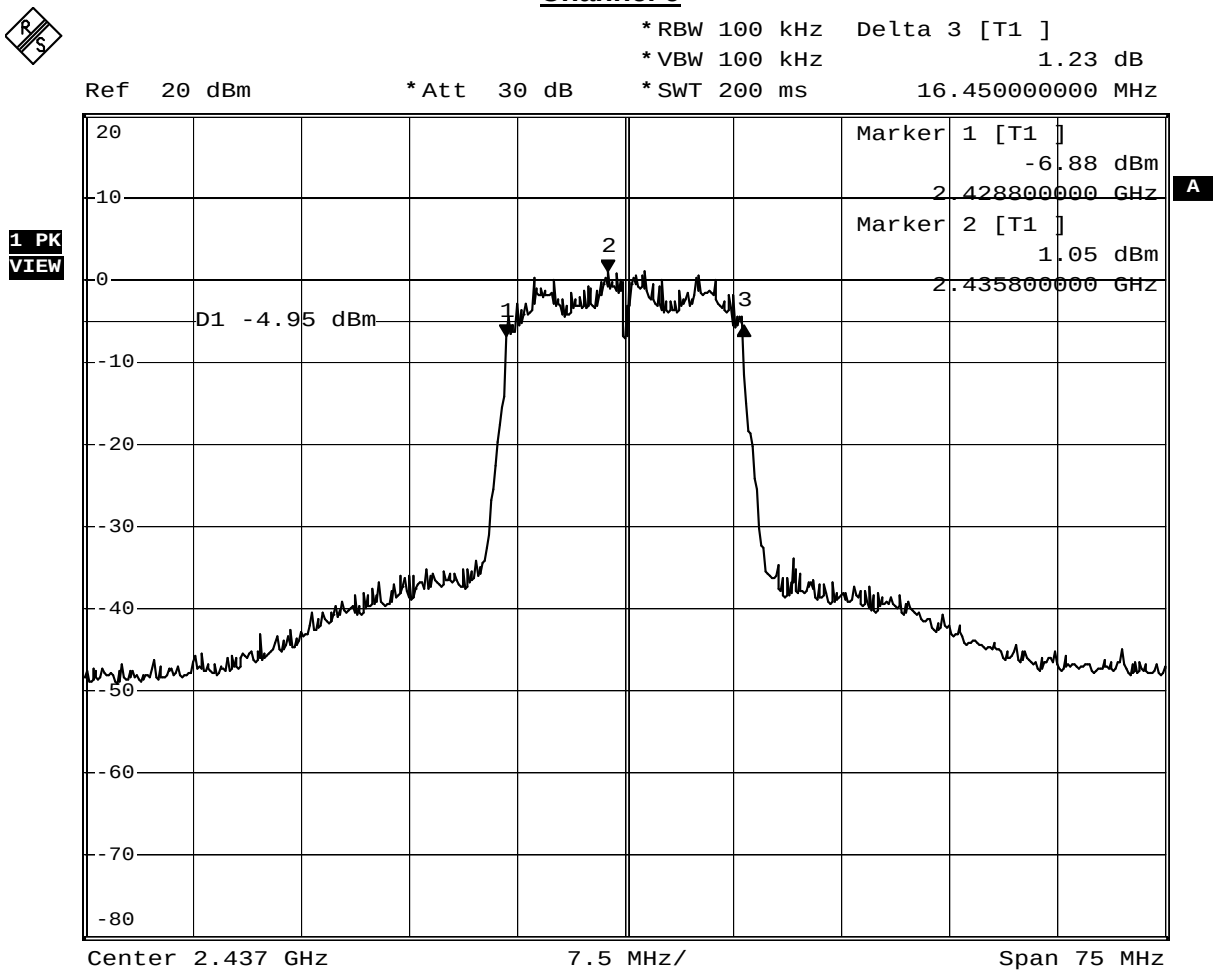
Product	ASUS Wireless SuperSpeedN Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measurement Level (KHz)	Required Limit (KHz)	Result
1	2412.00	16350	≧500	Pass
6	2437.00	16450	≧500	Pass
11	2462.00	16200	≧500	Pass

Channel 1

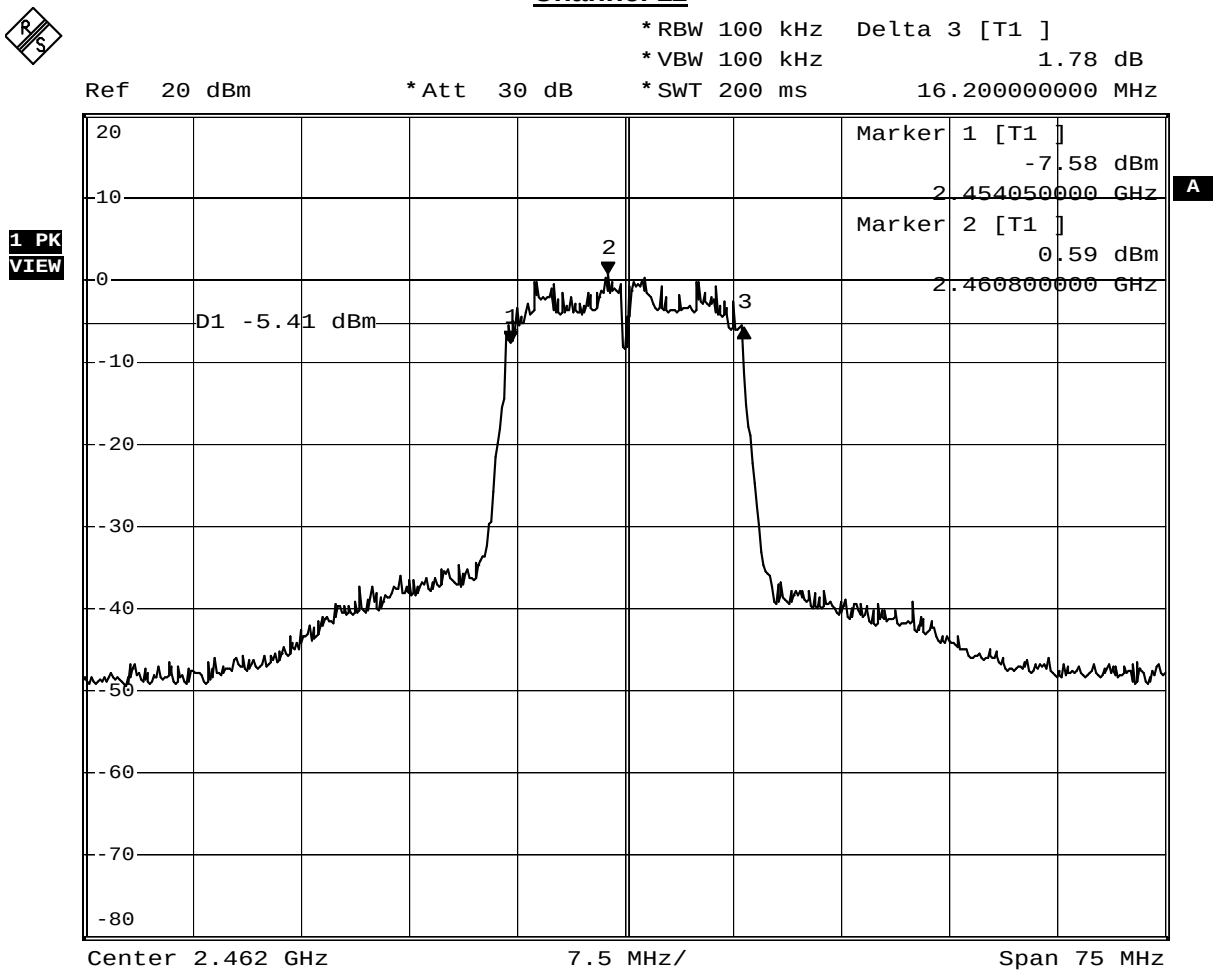


Channel 6



Date: 24.JUN.2009 14:40:57

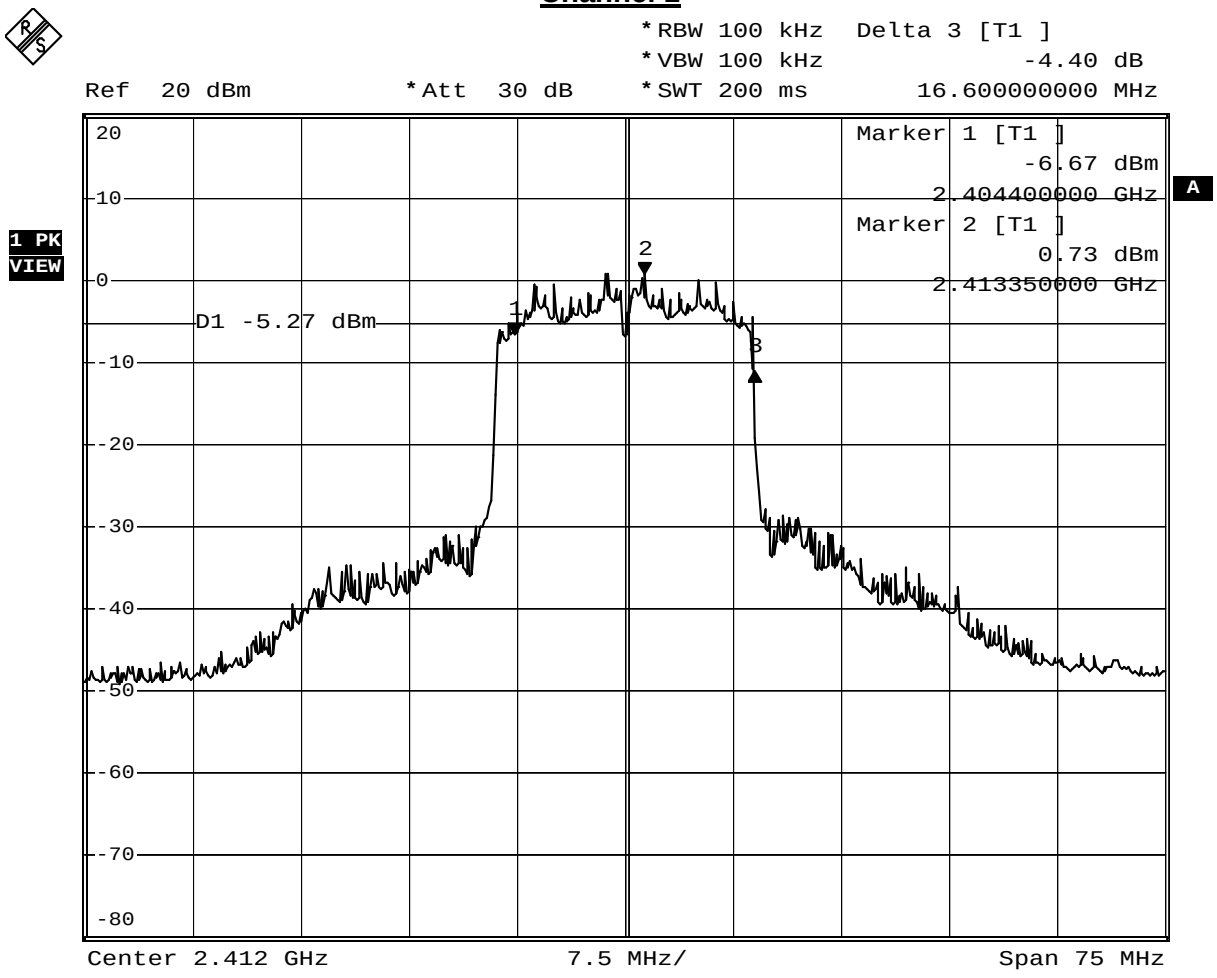
Channel 11


*RBW 100 kHz
*VBW 100 kHz
*SWT 200 ms
Delta 3 [T1]
1.78 dB
16.200000000 MHz
Ref 20 dBm
*Att 30 dB
Marker 1 [T1]
-7.58 dBm
2.454050000 GHz
Marker 2 [T1]
0.59 dBm
2.460800000 GHz
1 PK
VIEW
A
D1 -5.41 dBm
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.462 GHz
7.5 MHz/
Span 75 MHz
Date: 24.JUN.2009 12:20:15

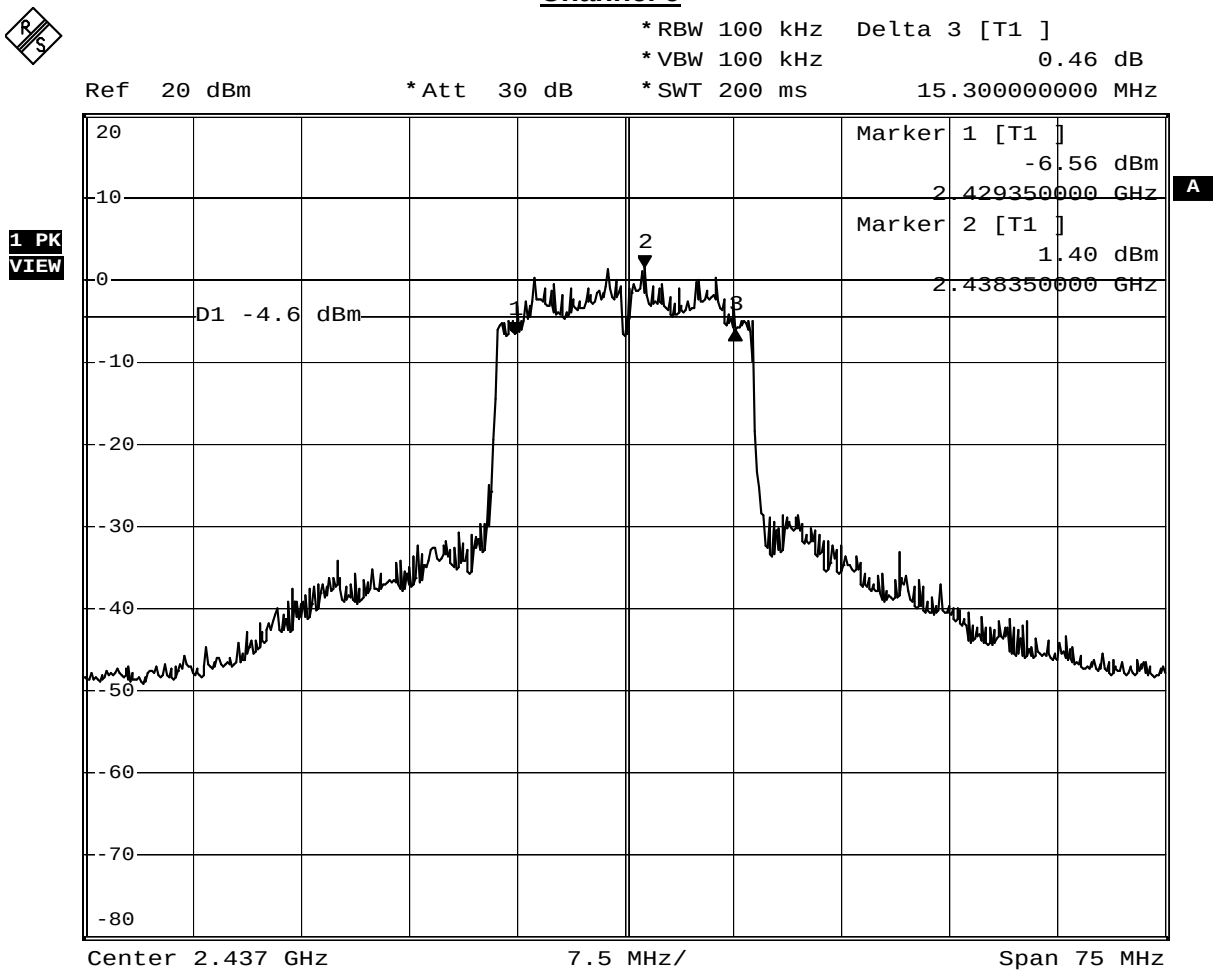
Product	ASUS Wireless SuperSpeedN Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

IEEE 802.11n (ANT A (20MHz))				
Channel No.	Frequency (MHz)	Measurement Level (KHz)	Required Limit (KHz)	Result
1	2412.00	16600	≧500	Pass
6	2437.00	15300	≧500	Pass
11	2462.00	15900	≧500	Pass

Channel 1

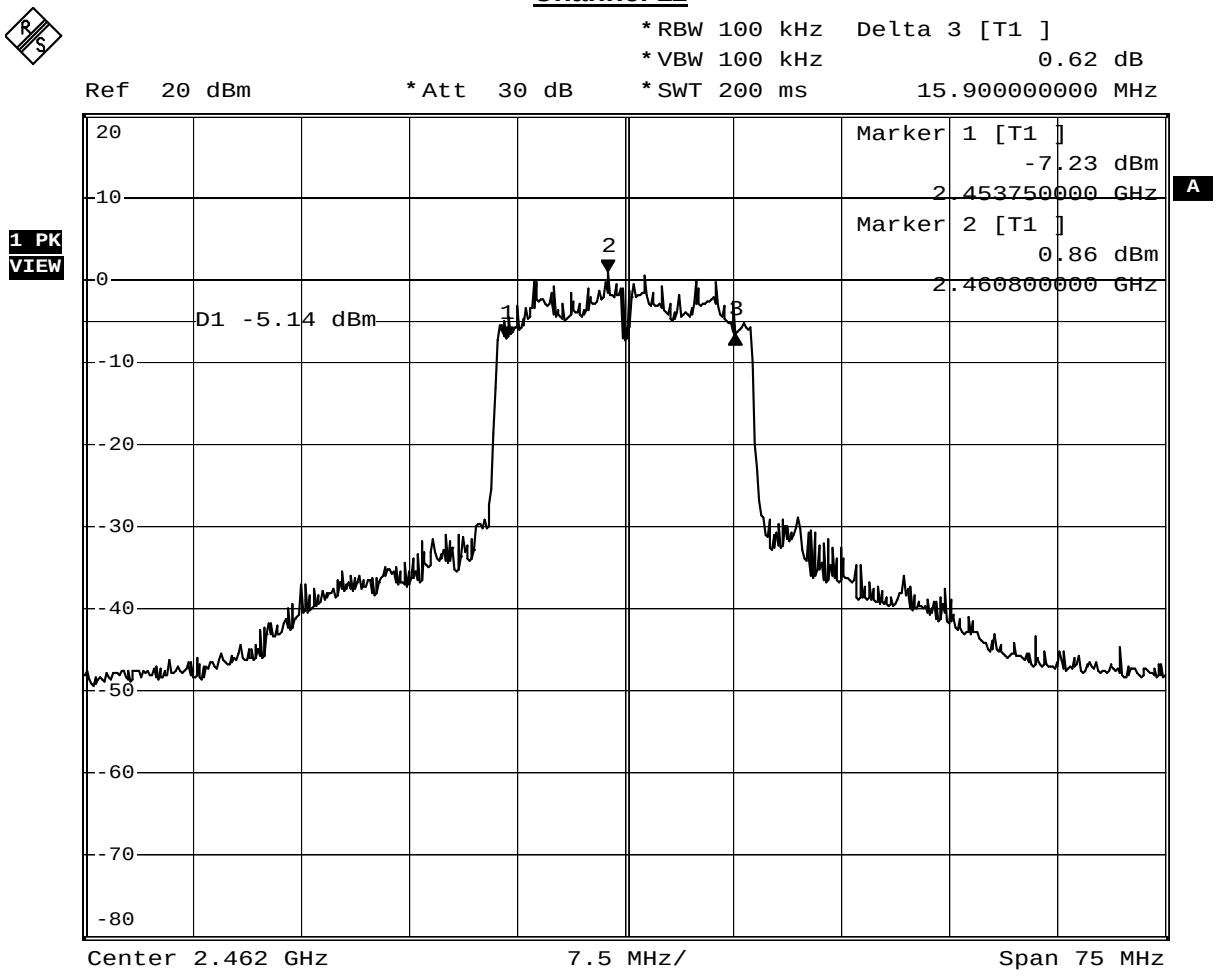


Channel 6



Date: 24.JUN.2009 17:57:39

Channel 11

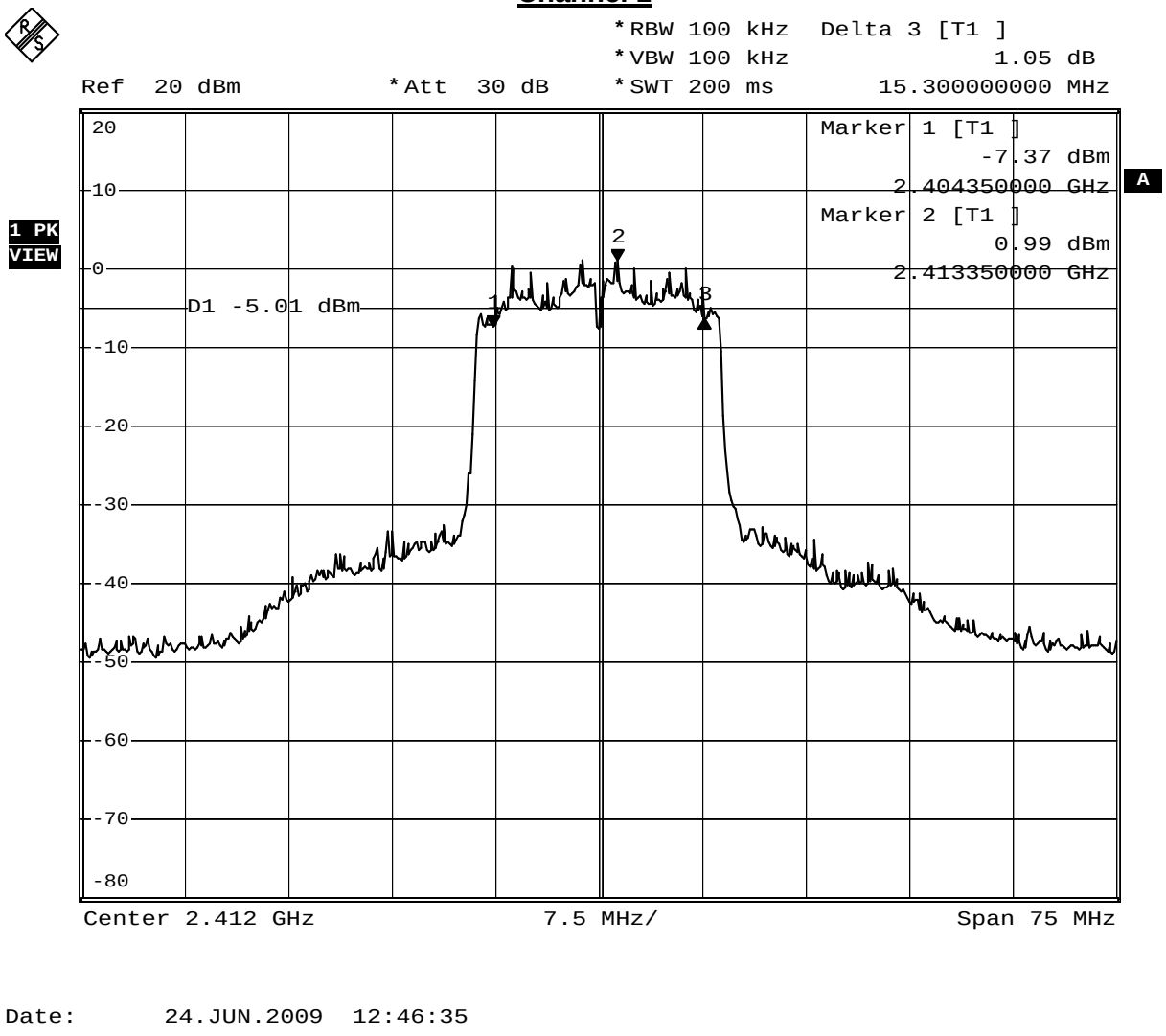


Date: 24.JUN.2009 14:28:56

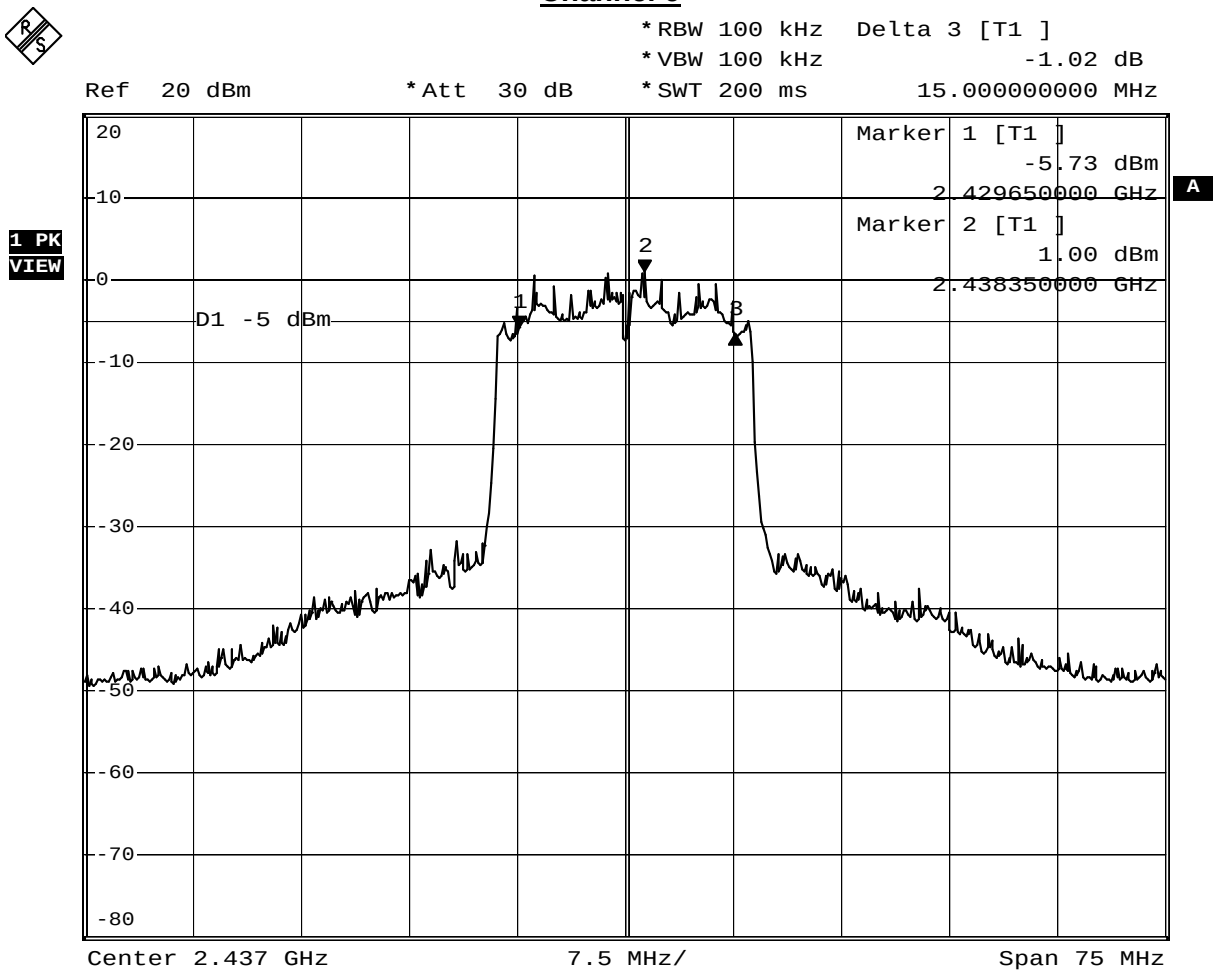
Product	ASUS Wireless SuperSpeedN Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

IEEE 802.11n (ANT B (20MHz))				
Channel No.	Frequency (MHz)	Measurement Level (KHz)	Required Limit (KHz)	Result
1	2412.00	15300	≧500	Pass
6	2437.00	15000	≧500	Pass
11	2462.00	14650	≧500	Pass

Channel 1

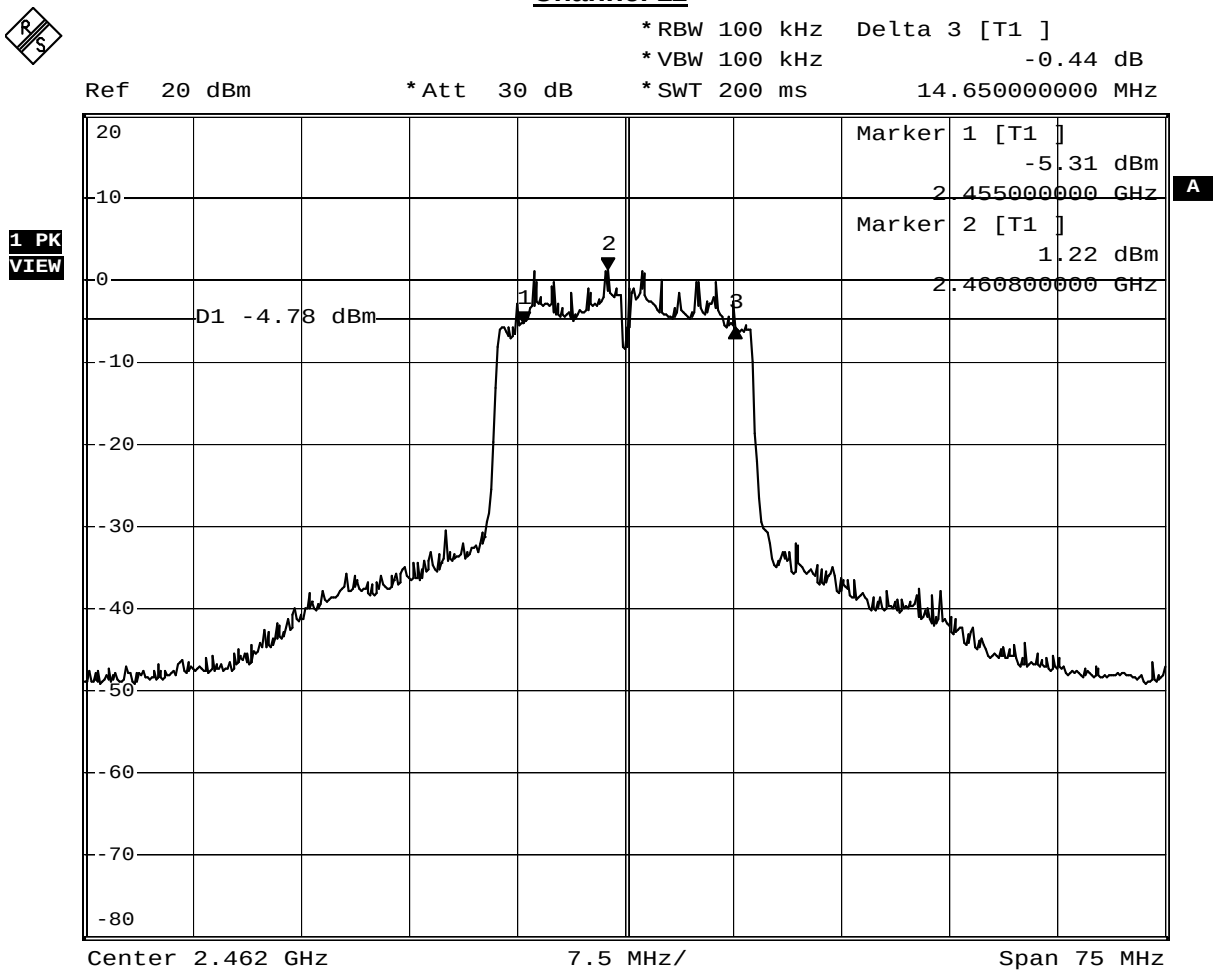


Channel 6



Date: 24.JUN.2009 13:03:04

Channel 11

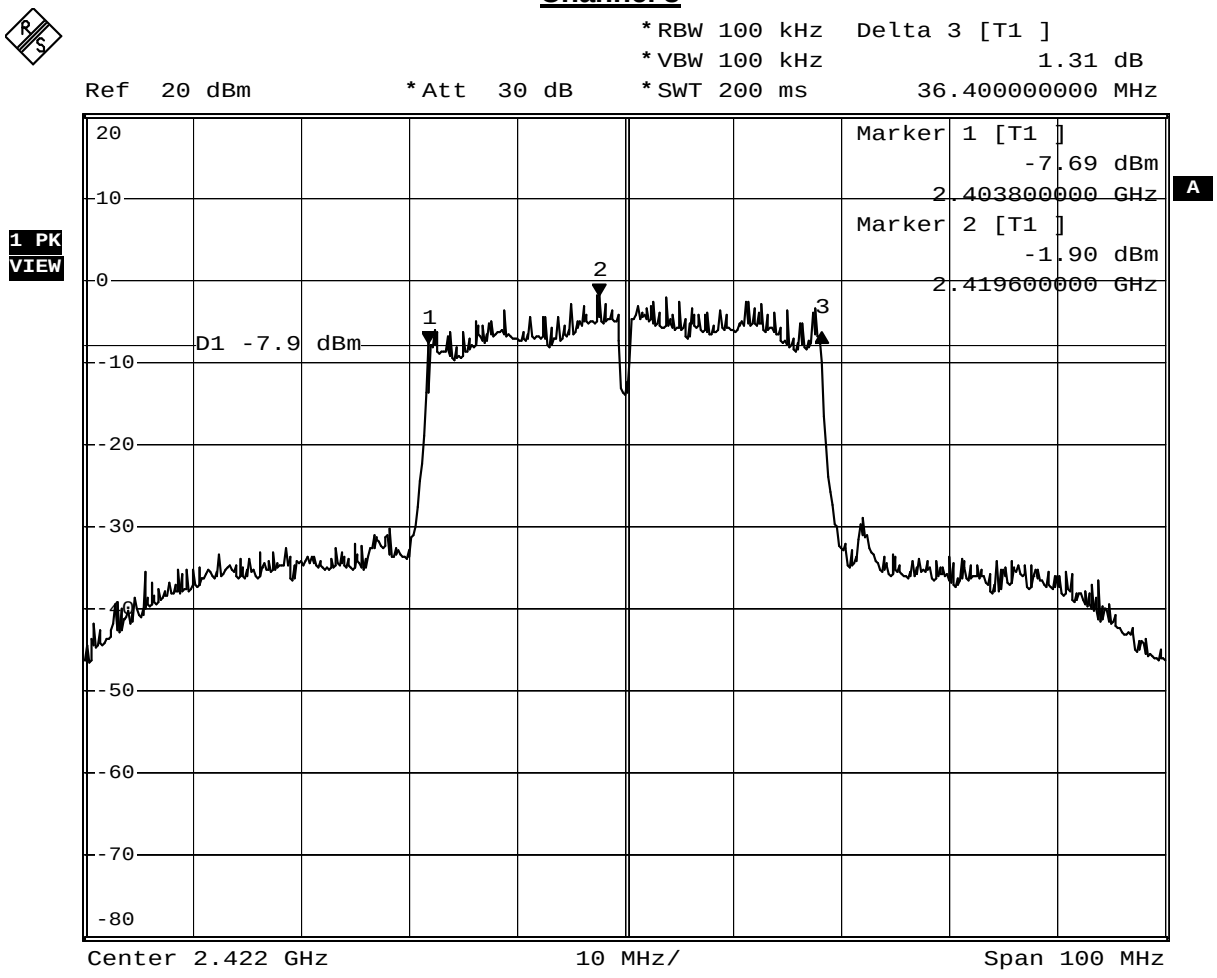


Date: 24.JUN.2009 13:04:51

Product	ASUS Wireless SuperSpeedN Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

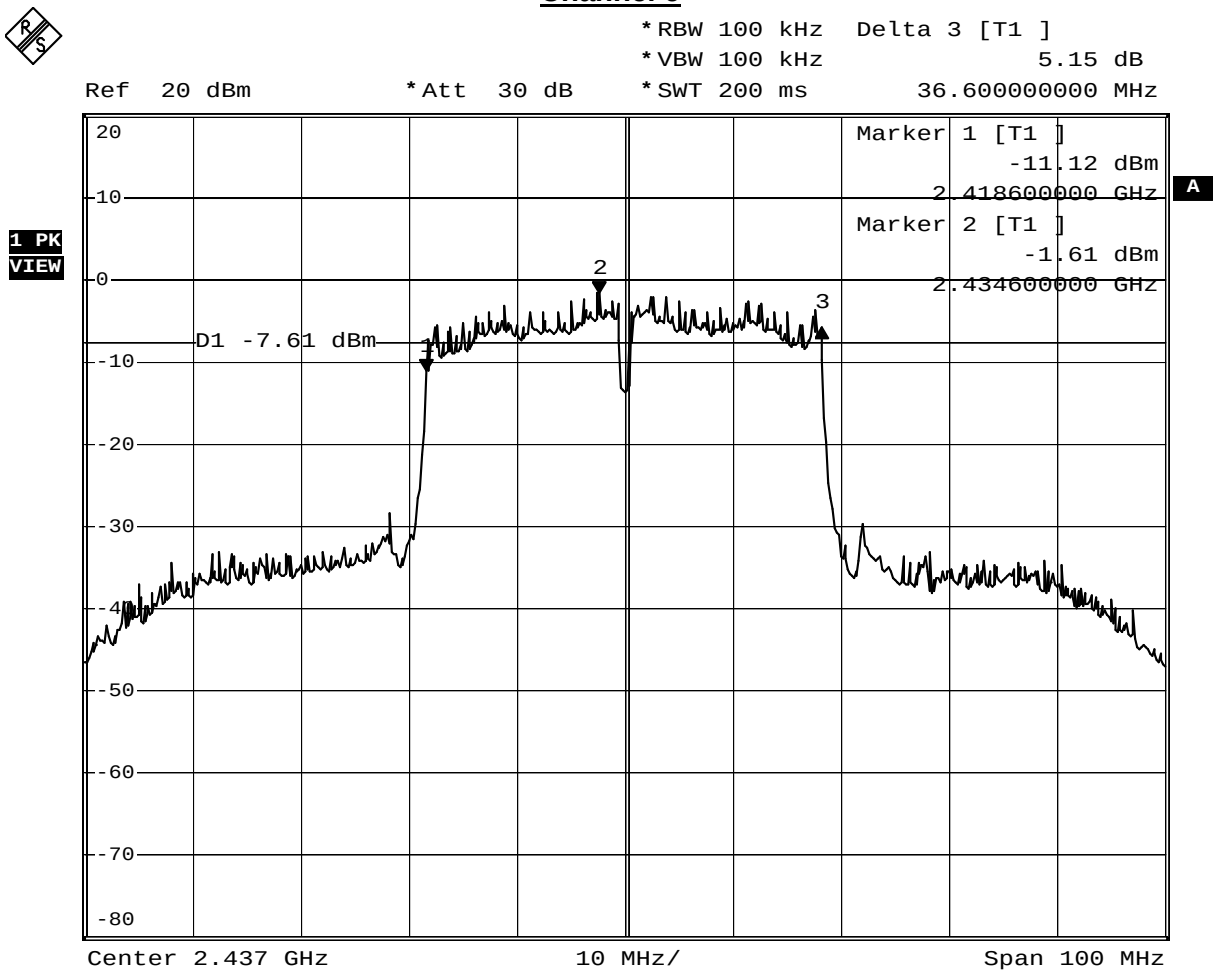
IEEE 802.11n (ANT A (40MHz))				
Channel No.	Frequency (MHz)	Measurement Level (KHz)	Required Limit (KHz)	Result
3	2422	36400	≧500	Pass
6	2437	36600	≧500	Pass
9	2452	36400	≧500	Pass

Channel 3



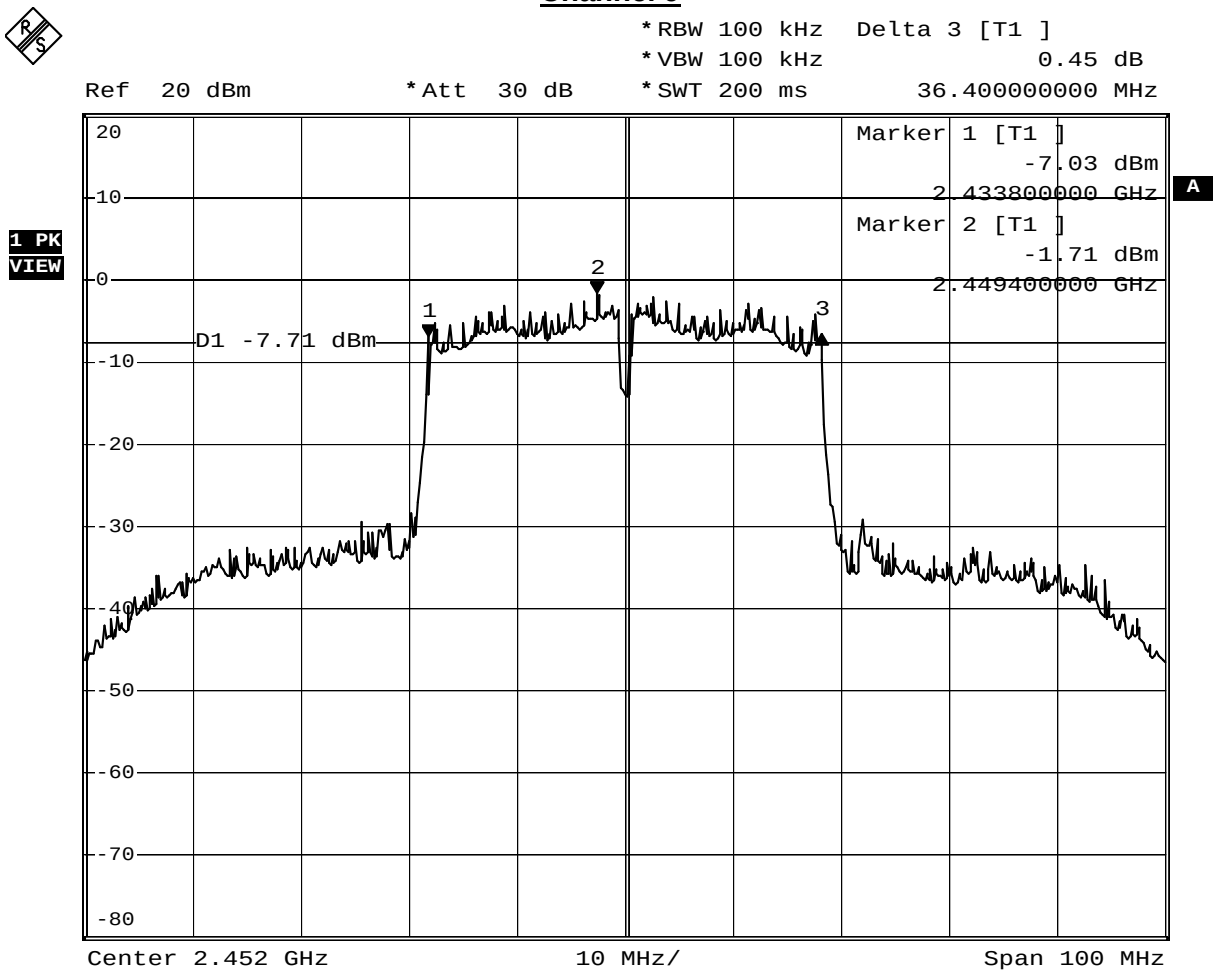
Date: 24.JUN.2009 14:10:15

Channel 6



Date: 24.JUN.2009 14:05:54

Channel 9

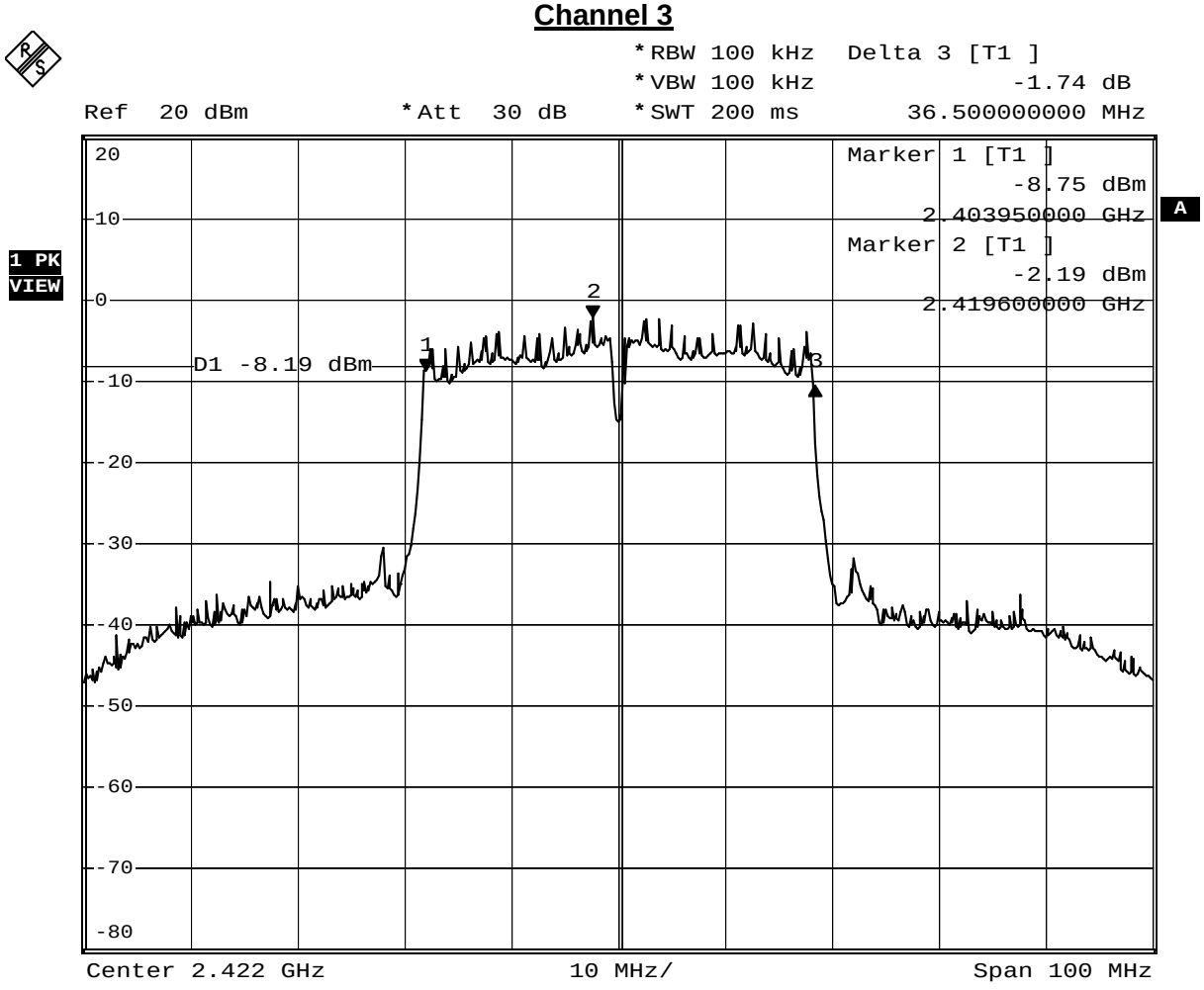


Date: 24.JUN.2009 14:17:44

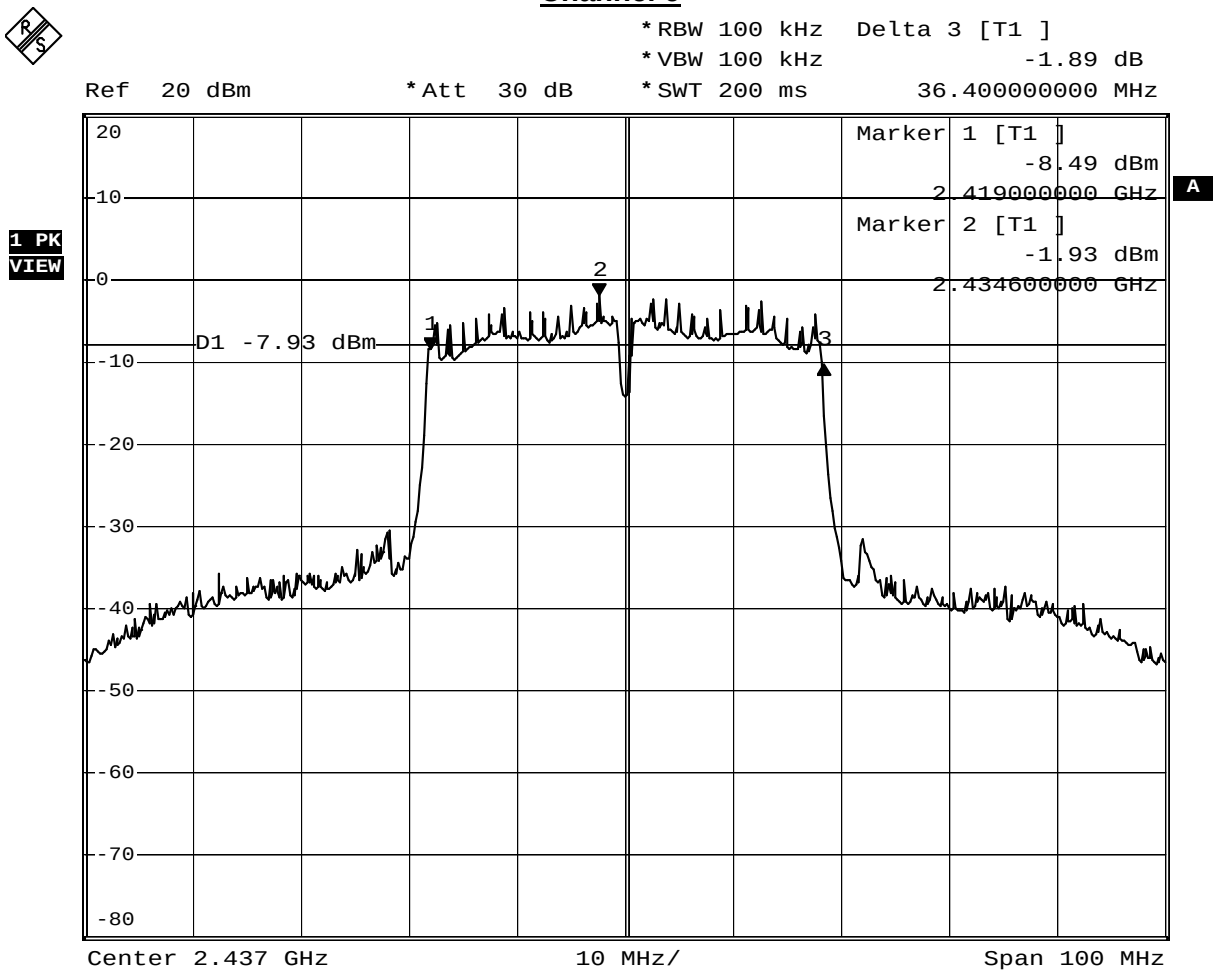
Product	ASUS Wireless SuperSpeedN Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

IEEE 802.11n (ANT B (40MHz))				
Channel No.	Frequency (MHz)	Measurement Level (KHz)	Required Limit (KHz)	Result
3	2422	36500	≧500	Pass
6	2437	36400	≧500	Pass
9	2452	36200	≧500	Pass

Channel 3

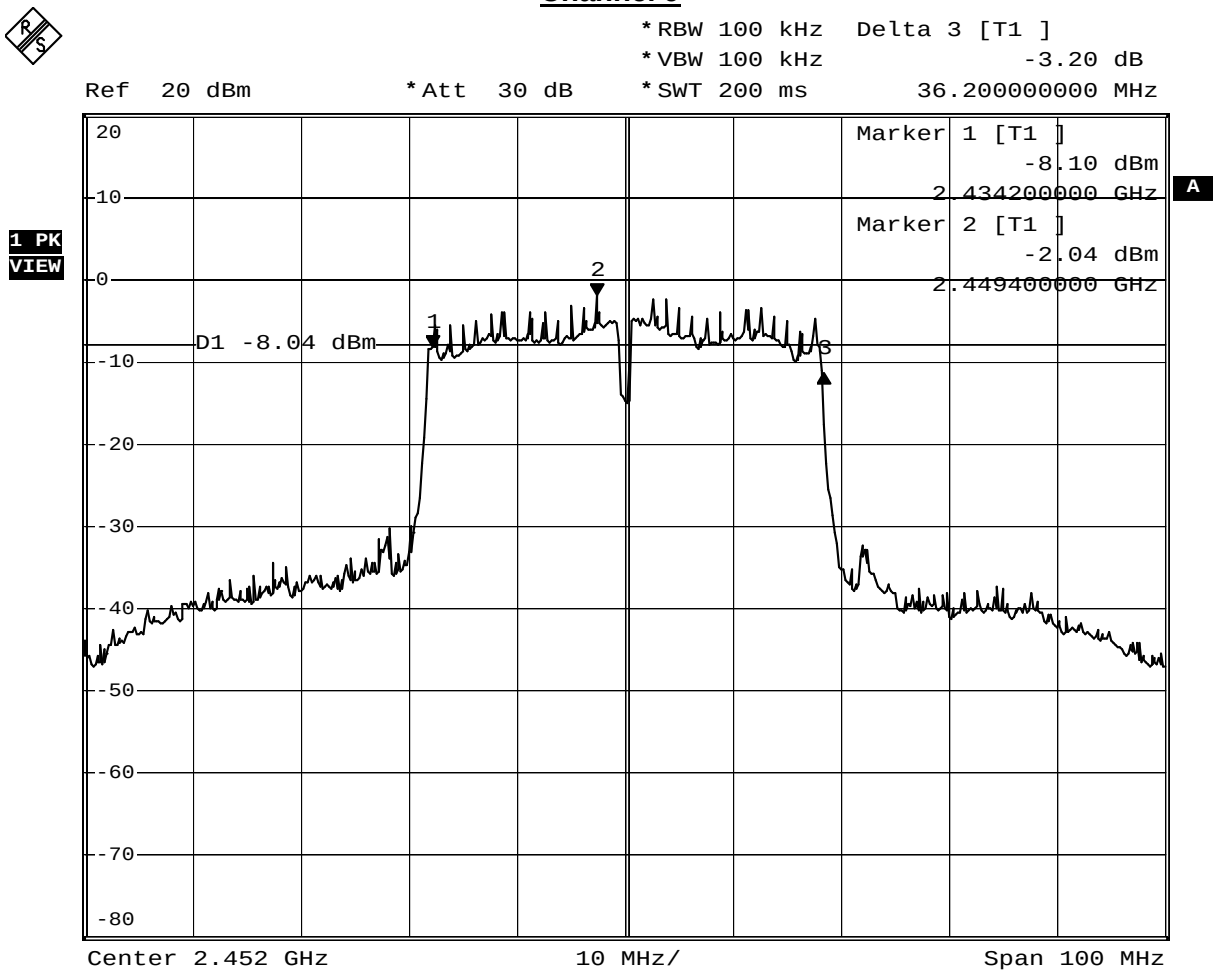


Channel 6



Date: 24.JUN.2009 13:01:13

Channel 9



Date: 24.JUN.2009 12:59:15

8. Power Density

8.1. Test Equipment

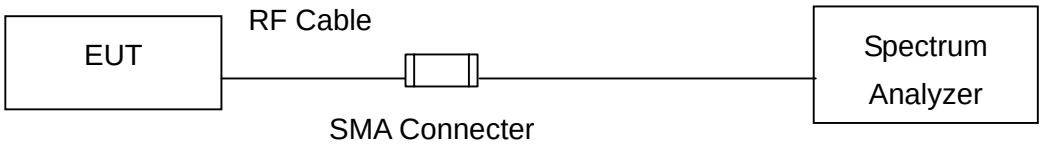
The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Mar., 2009
2	No.1 OATS			Sep., 2008

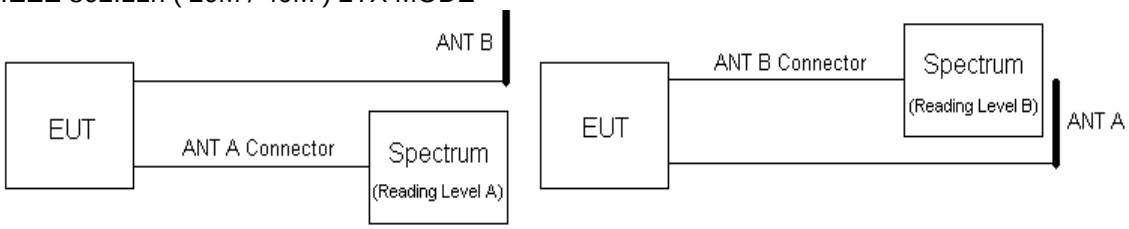
Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

8.2. Test Setup

IEEE 802.11 b / g MODE



IEEE 802.11n (20M / 40M) 2TX MODE



8.3. Limits

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8dBm in any 3KHz band during any time interval of continuous transmission.

8.4. Test Procedures

The EUT was setup according to ANSI C63.4, 2003; tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.
Set RBW= 3 KHz, Set VBW≧ 9 KHz, Sweep time=Auto, Set detector=Peak detector

8.5. Uncertainty

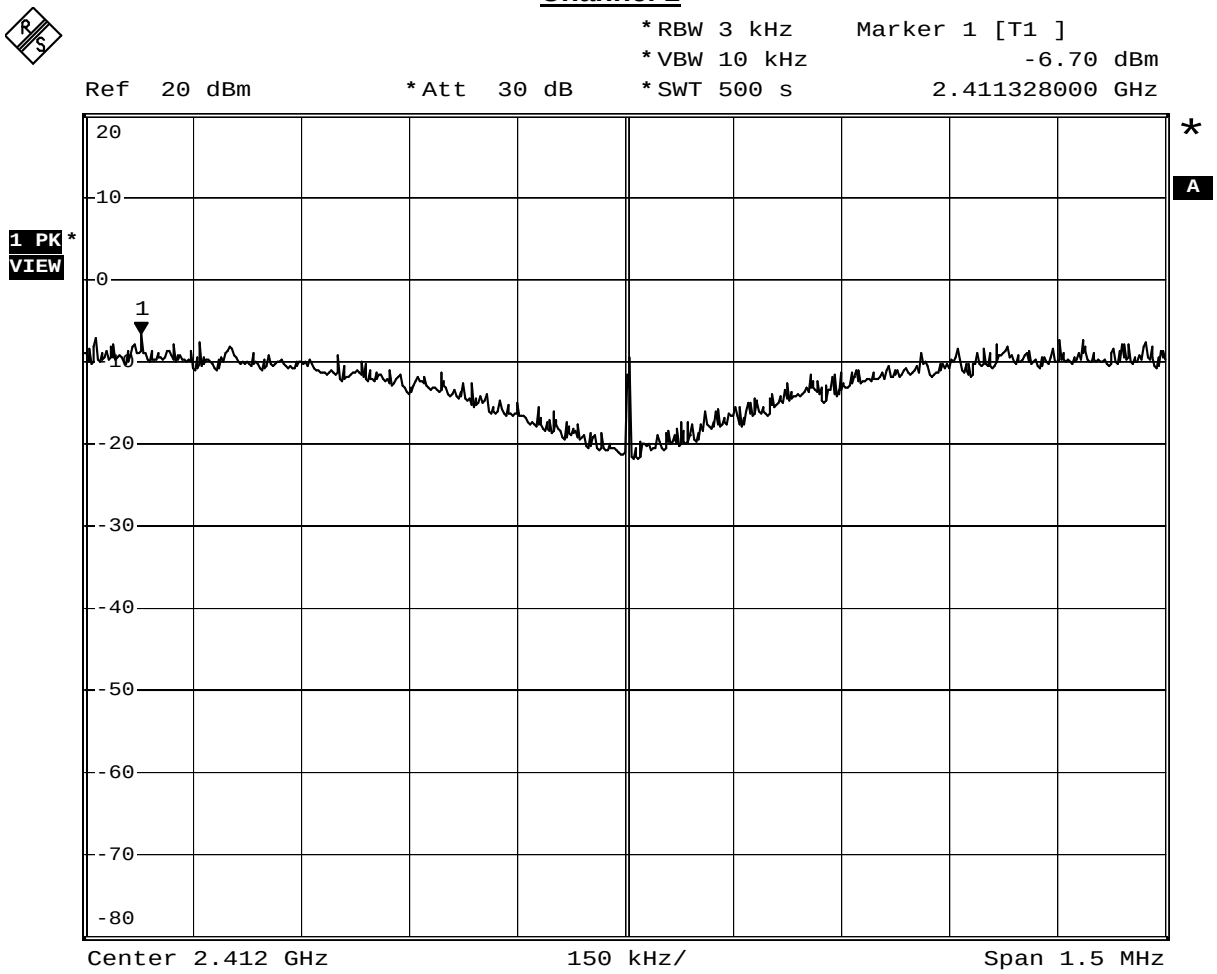
The measurement uncertainty is defined as ±1.27dB.

8.6. Test Result

Product	ASUS Wireless SuperSpeedN Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

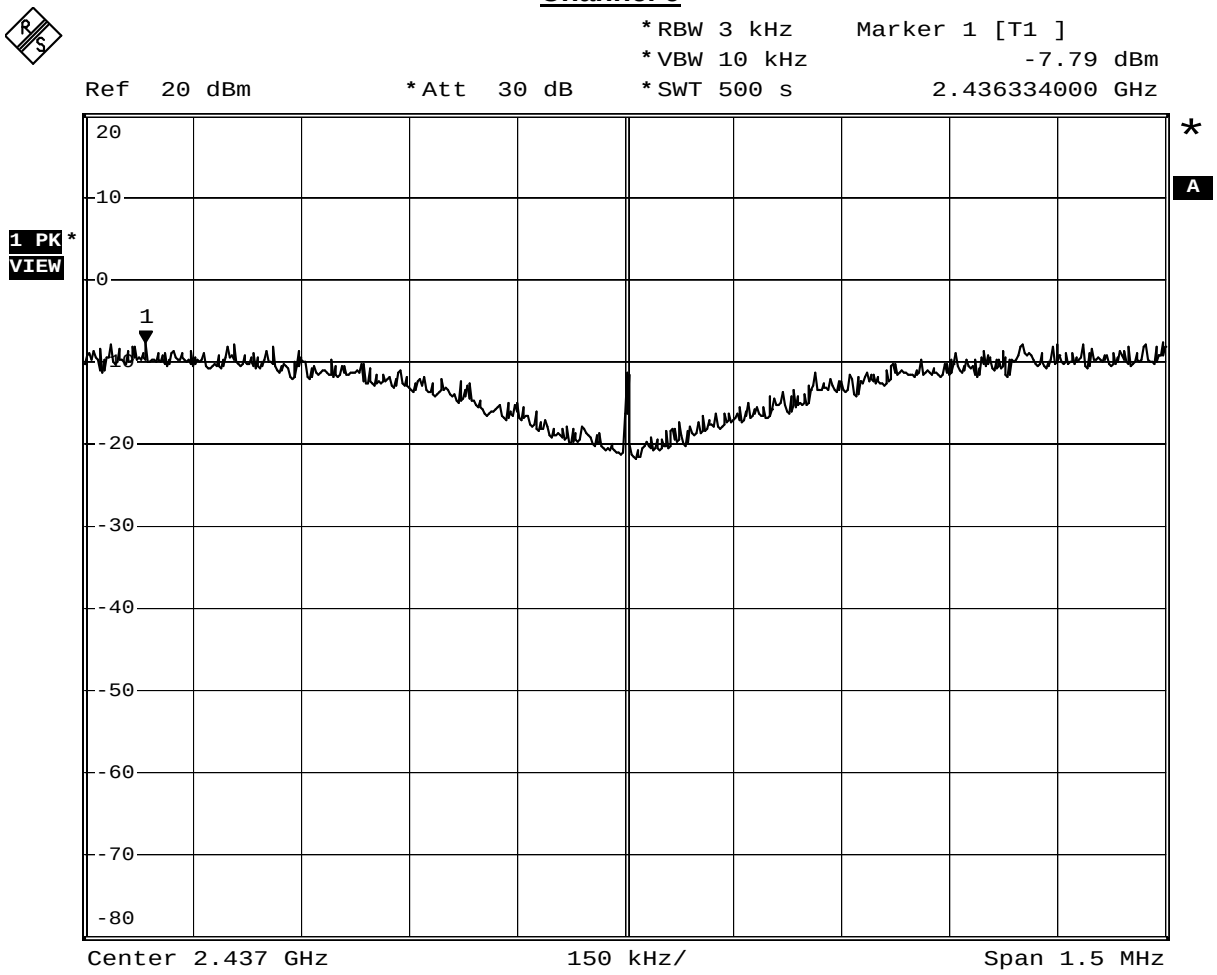
IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-6.70	≦8	Pass
6	2437	-7.79	≦8	Pass
11	2462	-7.44	≦8	Pass

Channel 1



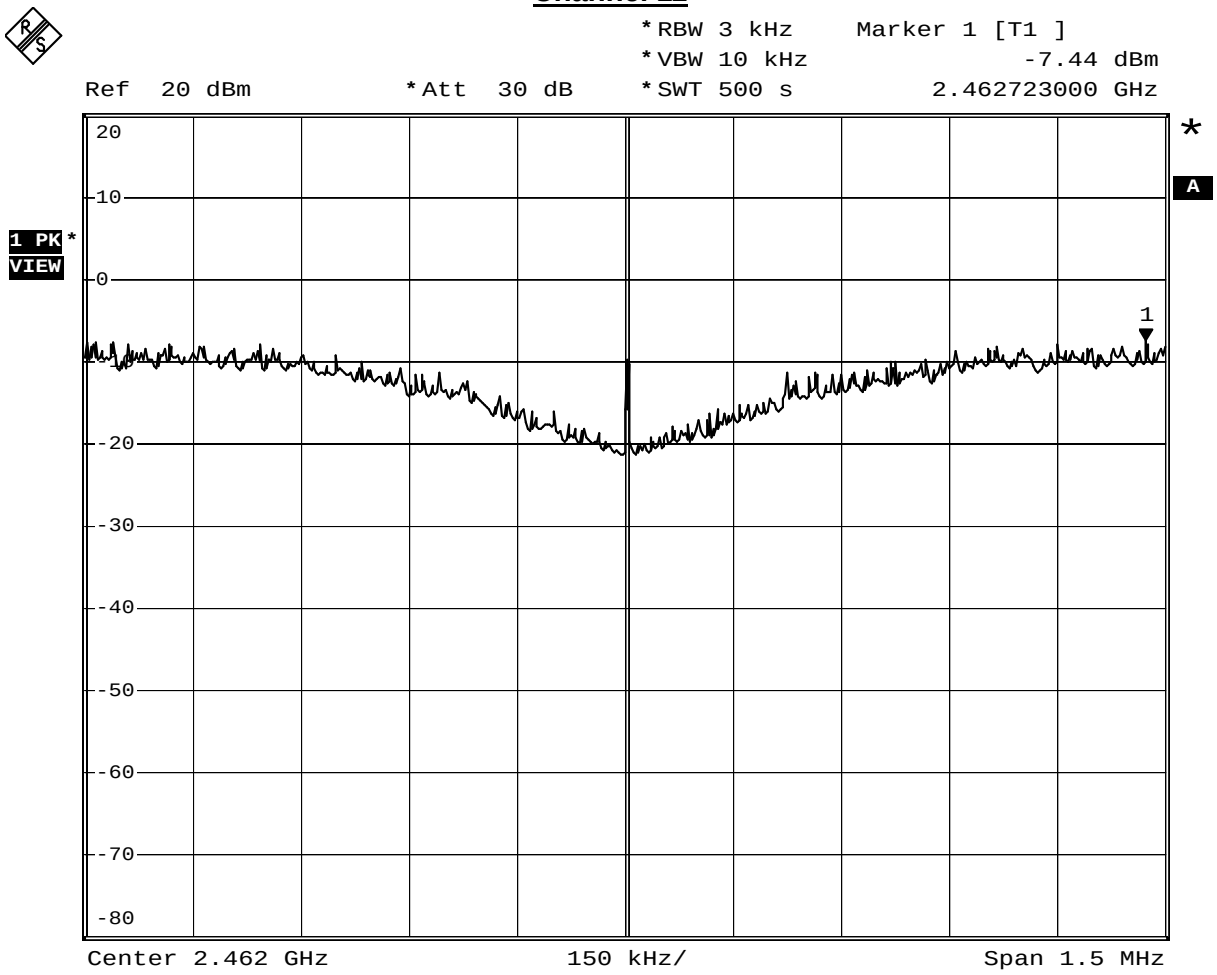
Date: 24.JUN.2009 15:22:08

Channel 6



Date: 24.JUN.2009 15:30:29

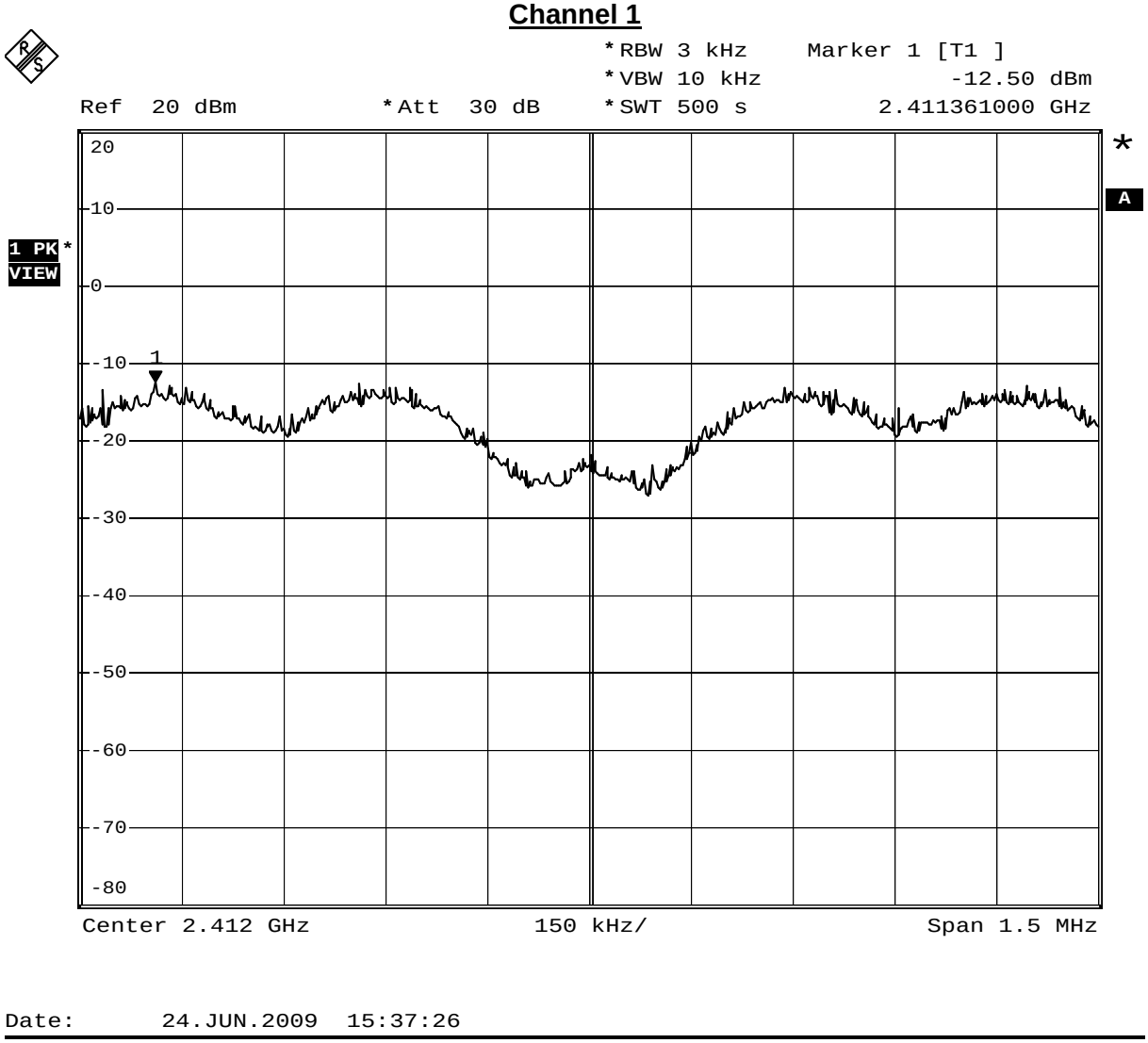
Channel 11


*RBW 3 kHz
*VBW 10 kHz
*SWT 500 s
Marker 1 [T1]
-7.44 dBm
2.462723000 GHz
Ref 20 dBm
*Att 30 dB
1 PK*
VIEW
A
20
10
0
-20
-30
-40
-50
-60
-70
-80
Center 2.462 GHz
150 kHz/
Span 1.5 MHz
Date: 24.JUN.2009 15:34:17

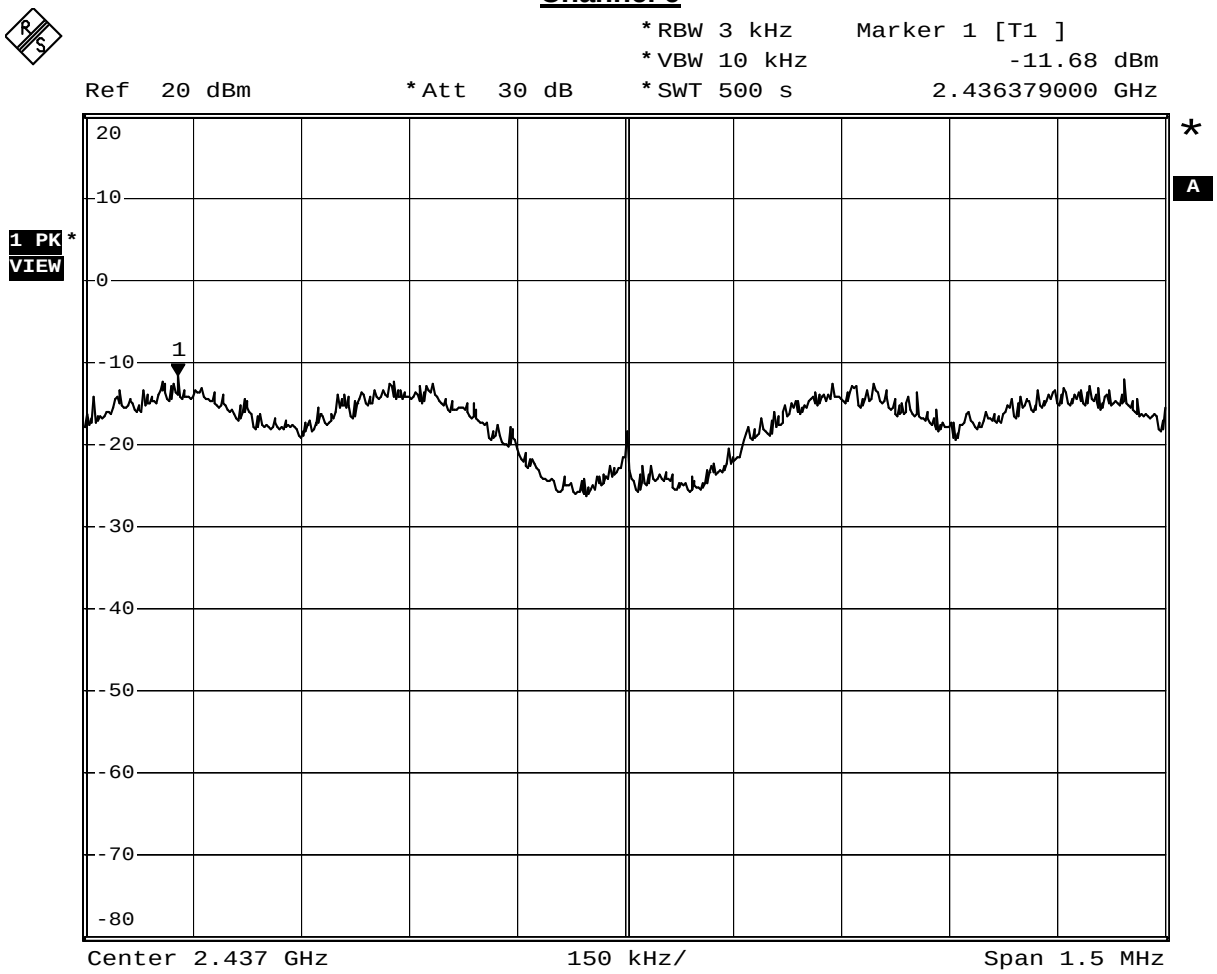
Product	ASUS Wireless SuperSpeedN Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-12.50	≦8	Pass
6	2437	-11.68	≦8	Pass
11	2462	-12.10	≦8	Pass

Channel 1

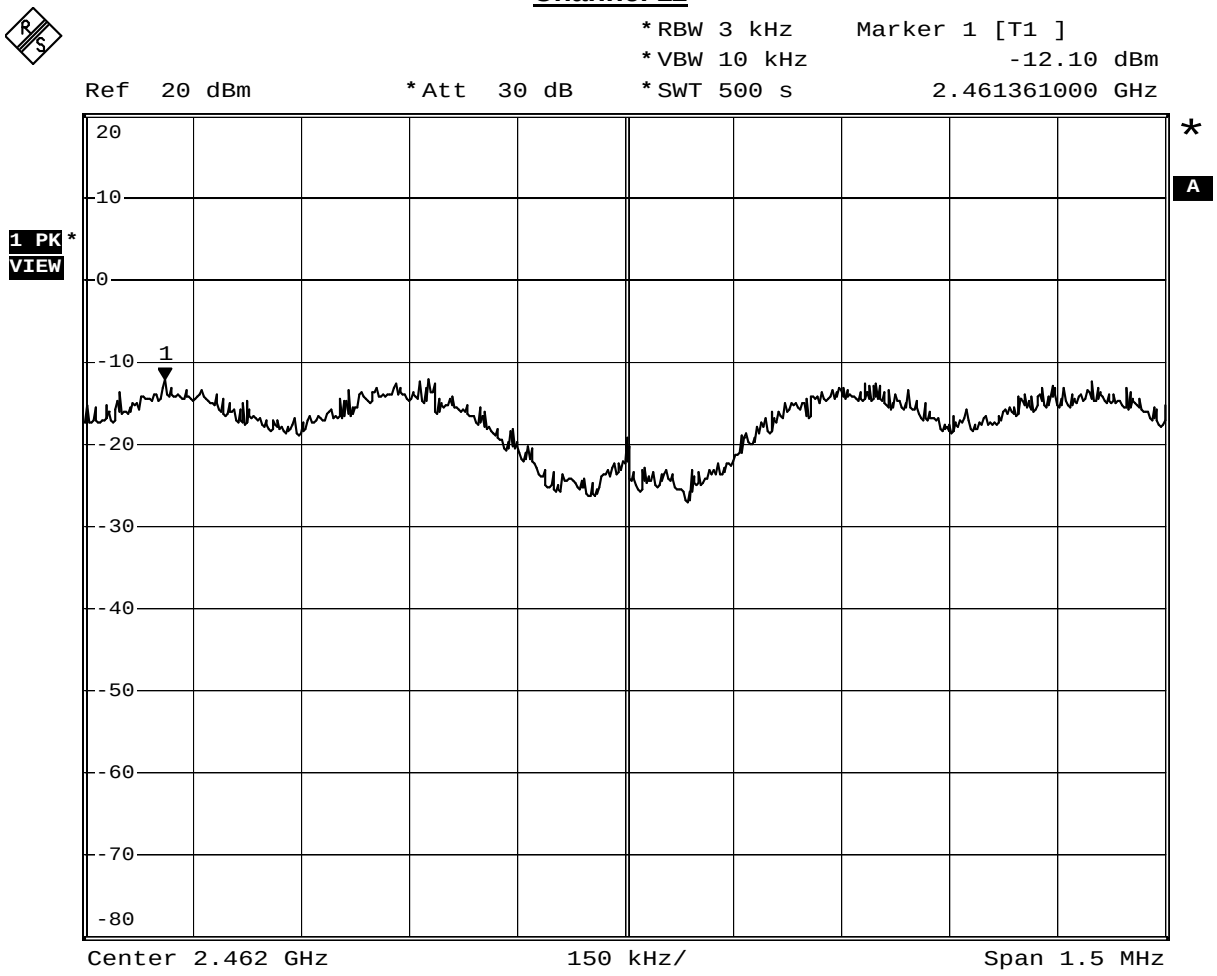


Channel 6



Date: 24.JUN.2009 15:45:41

Channel 11



Date: 24.JUN.2009 15:47:31

Product	ASUS Wireless SuperSpeedN Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

IEEE802.11n MCS08 20MHz_2TX; ANT A					
Channel No.	Frequency (MHz)	Measure Level		Limit (dBm)	Result
		(dBm)	(mW)		
1	2412.00	-11.22	0.076	≦8	Pass
6	2437.00	-11.45	0.072	≦8	Pass
11	2462.00	-10.99	0.080	≦8	Pass

IEEE802.11n MCS08 20MHz_2TX; ANT B					
Channel No.	Frequency (MHz)	Measure Level		Limit (dBm)	Result
		(dBm)	(mW)		
1	2412.00	-11.59	0.069	≦8	Pass
6	2437.00	-11.16	0.077	≦8	Pass
11	2462.00	-11.62	0.069	≦8	Pass

IEEE802.11n MCS08 20MHz_2TX; ANT A + ANT B ; Note 1 & Note 2					
Channel No.	Frequency (MHz)	Measure Level		Limit(dBm)	Result
		(dBm)	(mW)		
1	2412	-8.39	0.145	≦8	Pass
6	2437	-8.29	0.148	≦8	Pass
11	2462	-8.28	0.148	≦8	Pass

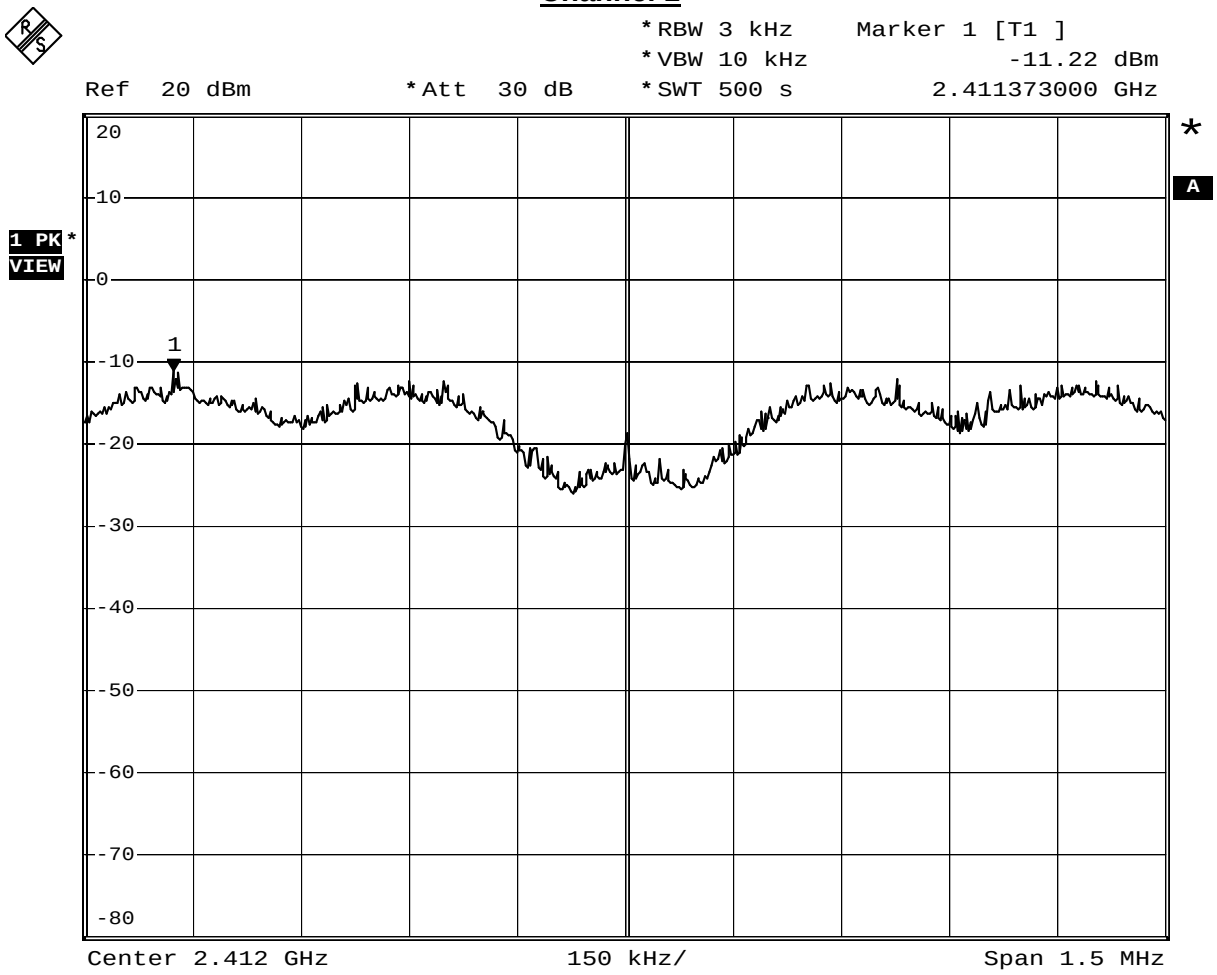
Note:

1.Measure Level (ANT A + ANT B)_mW = Measure Level ANT A _mW + Measure Level ANT B_mW

2.Measure Level (ANT A + ANT B)_dBm=10Log [Measure Level (ANT A + ANT B)_mW]

IEEE802.11n MCS08 20MHz_2TX; ANT A

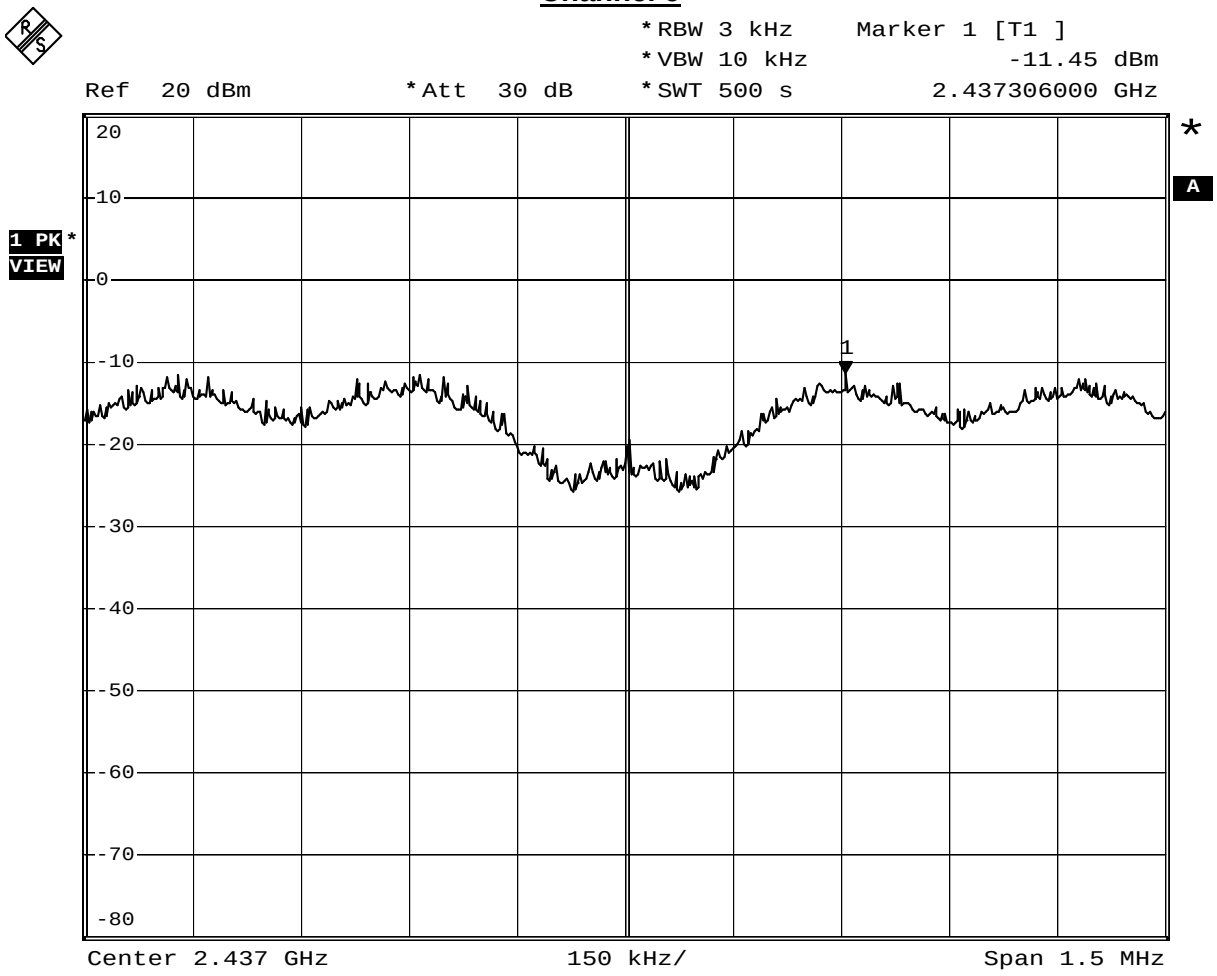
Channel 1



Date: 24.JUN.2009 15:52:13

IEEE802.11n MCS08 20MHz_2TX; ANT A

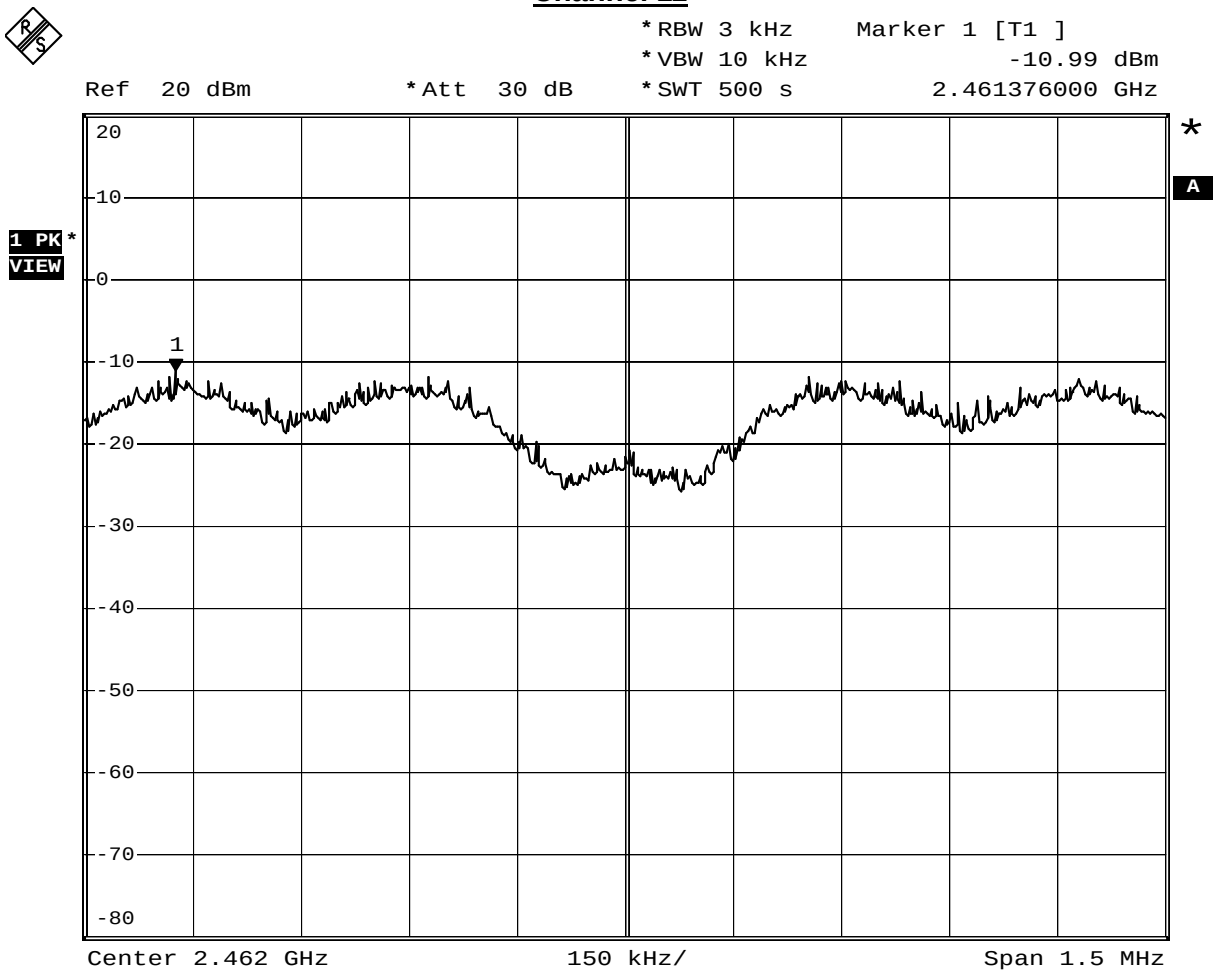
Channel 6



Date: 24.JUN.2009 16:06:03

IEEE802.11n MCS08 20MHz_2TX; ANT A

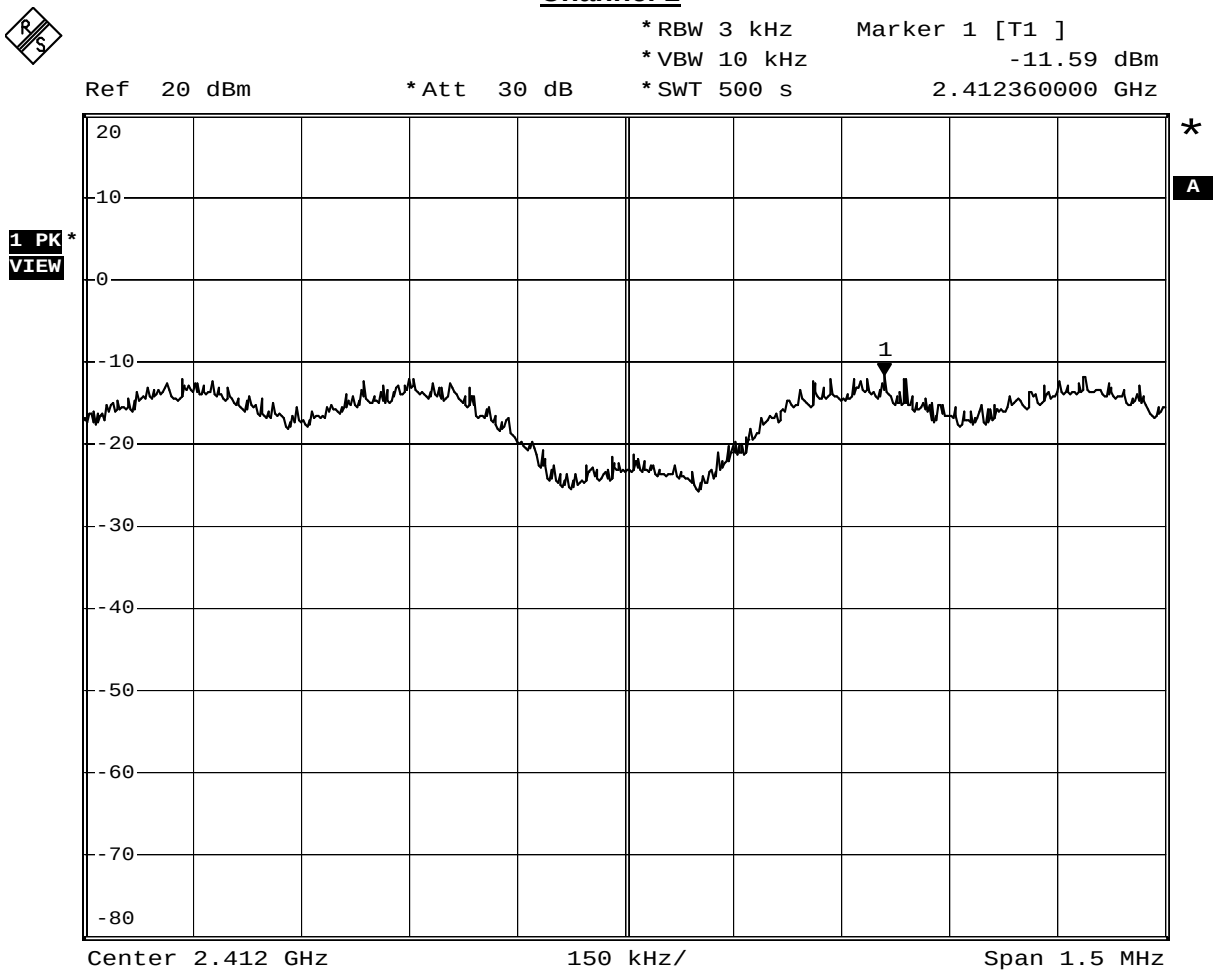
Channel 11



Date: 24.JUN.2009 16:08:20

IEEE802.11n MCS8 20MHz_2TX; ANT B

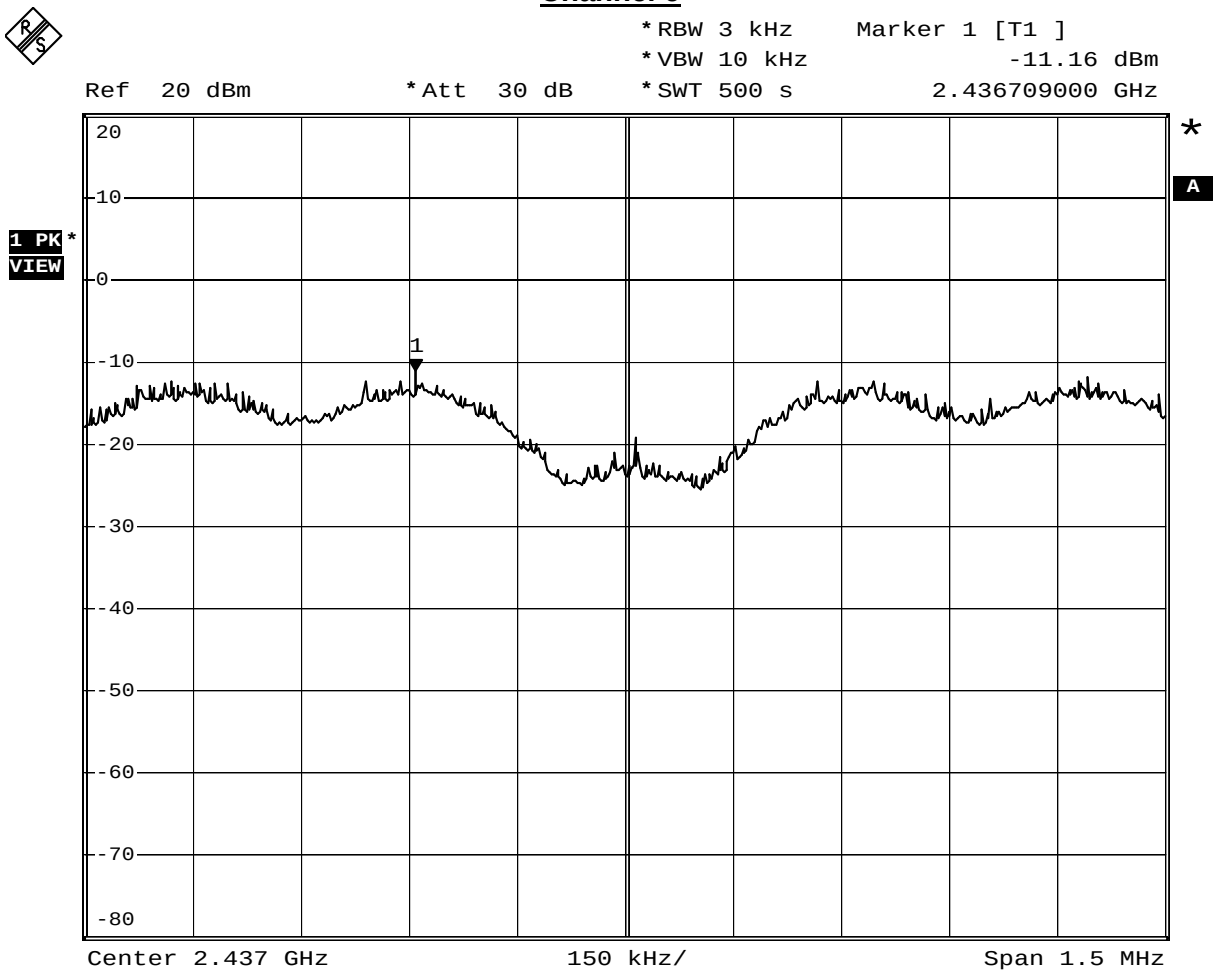
Channel 1



Date: 24.JUN.2009 16:52:43

IEEE802.11n MCS8 20MHz_2TX; ANT B

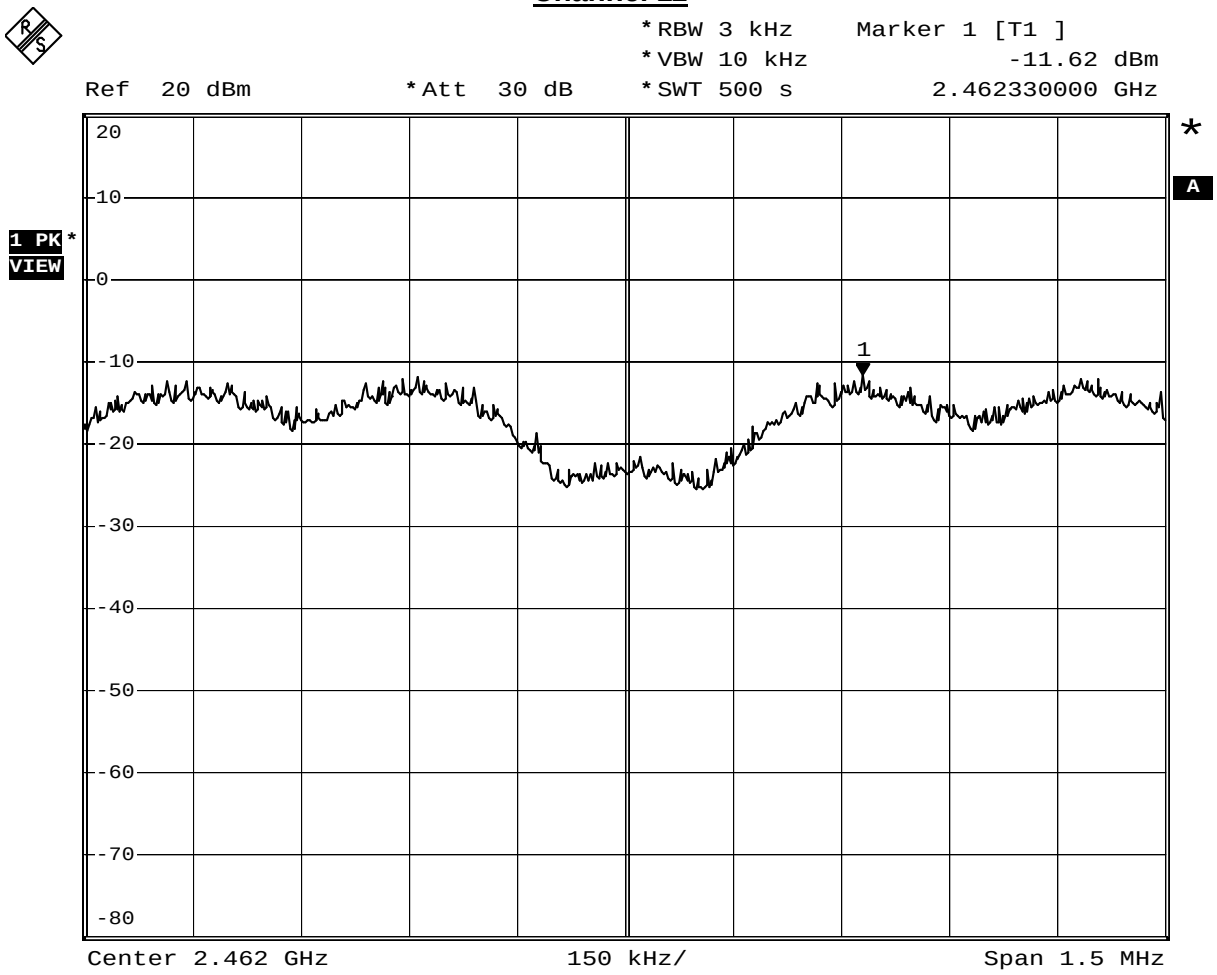
Channel 6



Date: 24.JUN.2009 17:01:01

IEEE802.11n MCS8 20MHz_2TX; ANT B

Channel 11



Date: 24.JUN.2009 17:04:22

Product	ASUS Wireless SuperSpeedN Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2009/06/24	Test Site	No.1 OATS

IEEE 802.11n MCS08 40MHz_2TX ; ANT A					
Channel No.	Frequency (MHz)	Measure Level		Limit (dBm)	Result
		(dBm)	(mW)		
3	2422	-13.49	0.045	≦8	Pass
6	2437	-14.50	0.035	≦8	Pass
9	2452	-14.17	0.038	≦8	Pass

IEEE 802.11n MCS08 40MHz_2TX ; ANT B					
Channel No.	Frequency (MHz)	Measure Level		Limit (dBm)	Result
		(dBm)	(mW)		
3	2422	-14.10	0.039	≦8	Pass
6	2437	-12.66	0.054	≦8	Pass
9	2452	-15.01	0.032	≦8	Pass

IEEE802.11n ;MCS08 40MHz_2TX ; ANT A + ANT B					
Channel No.	Frequency (MHz)	Measure Level		Limit(dBm)	Result
		(dBm)	(mW)		
3	2422	-10.77	0.084	≦8	Pass
6	2437	-10.47	0.090	≦8	Pass
9	2452	-11.56	0.070	≦8	Pass

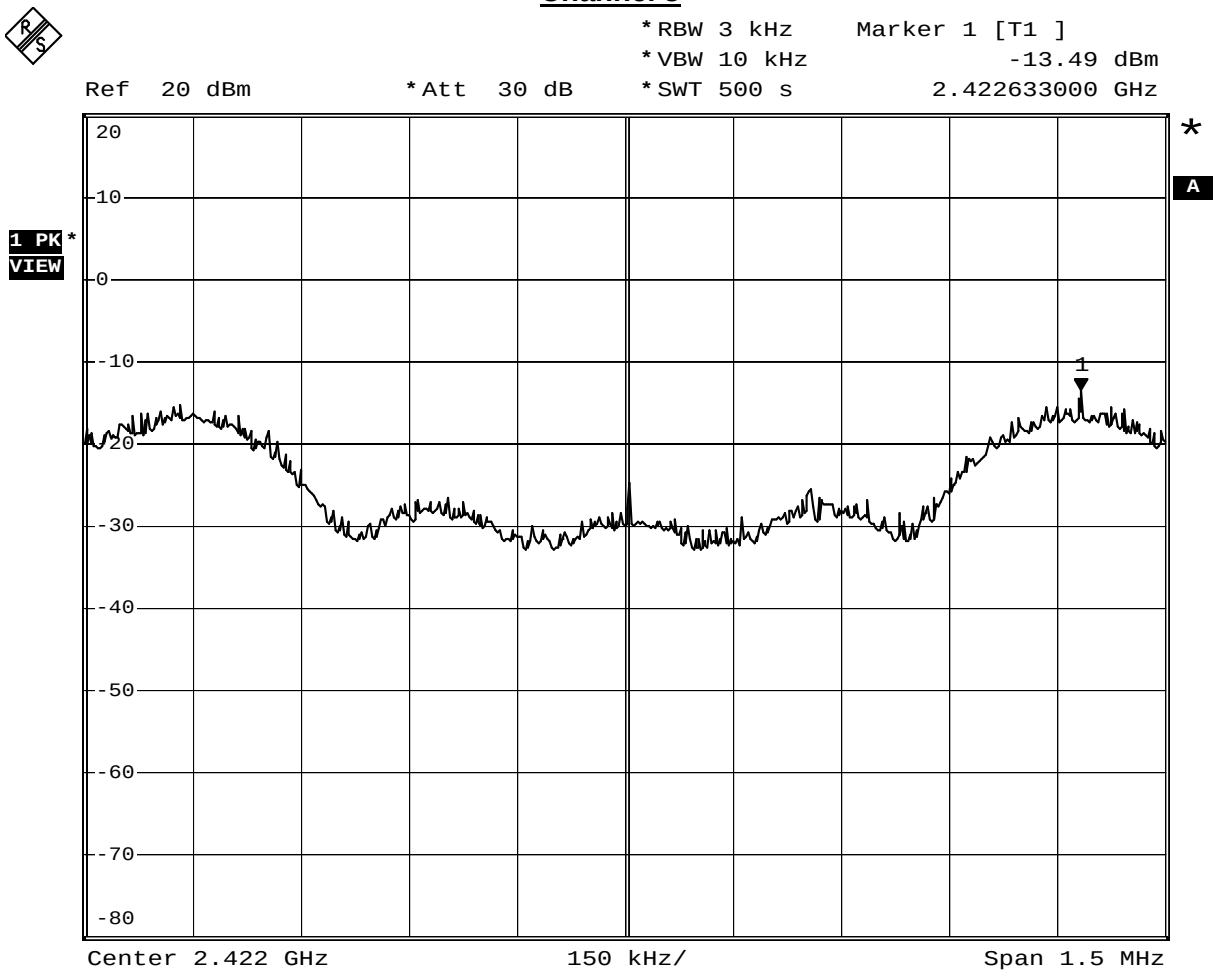
Note:

1.Measure Level (ANT A + ANT B)_mW = Measure Level ANT A _mW + Measure Level ANT B_mW

2.Measure Level (ANT A + ANT B)_dBm=10Log [Measure Level (ANT A + ANT B)_mW]

IEEE 802.11n MCS08 40MHz_2TX ; ANT A

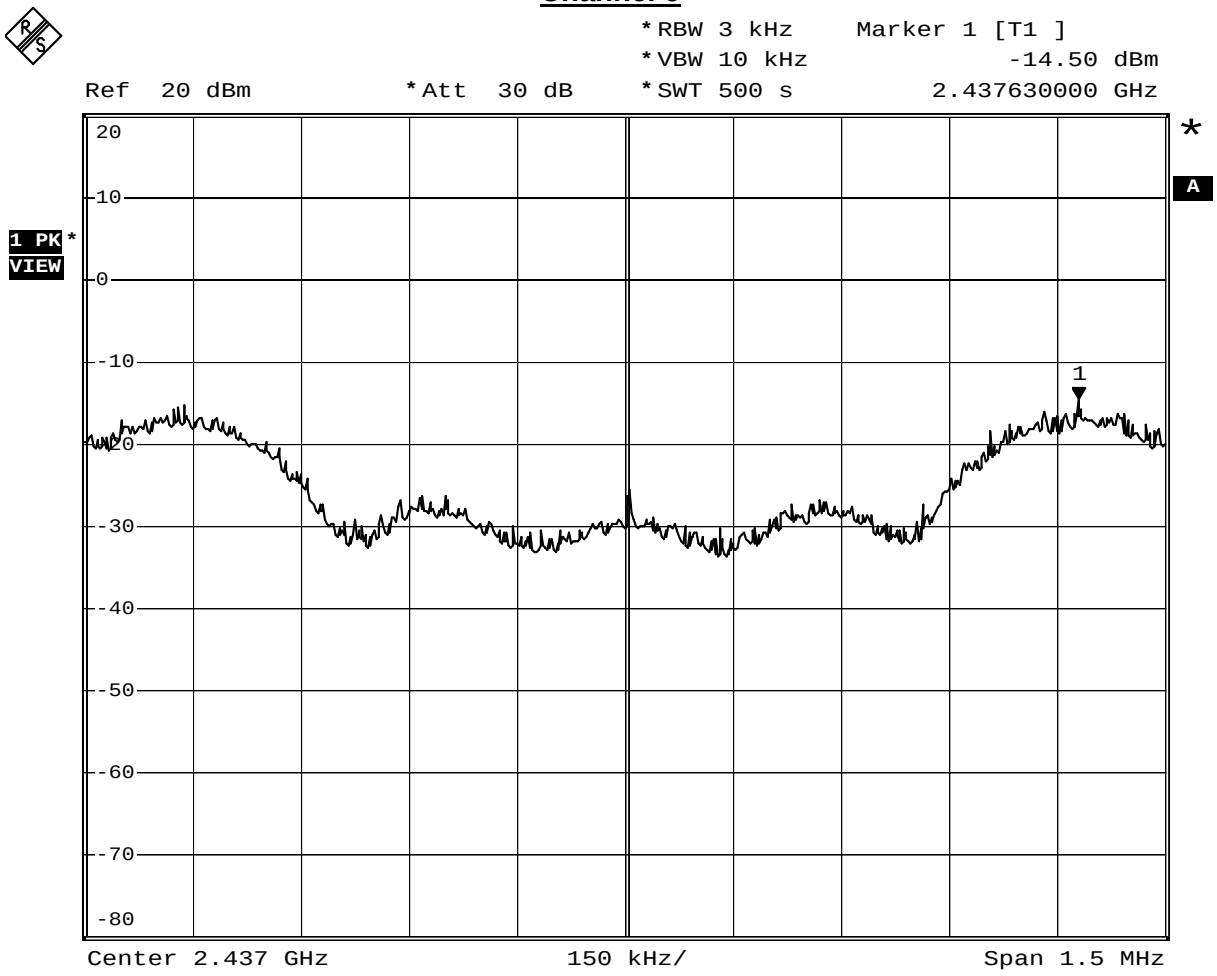
Channel 3



Date: 24.JUN.2009 16:20:50

IEEE 802.11n MCS08 40MHz_2TX ; ANT A

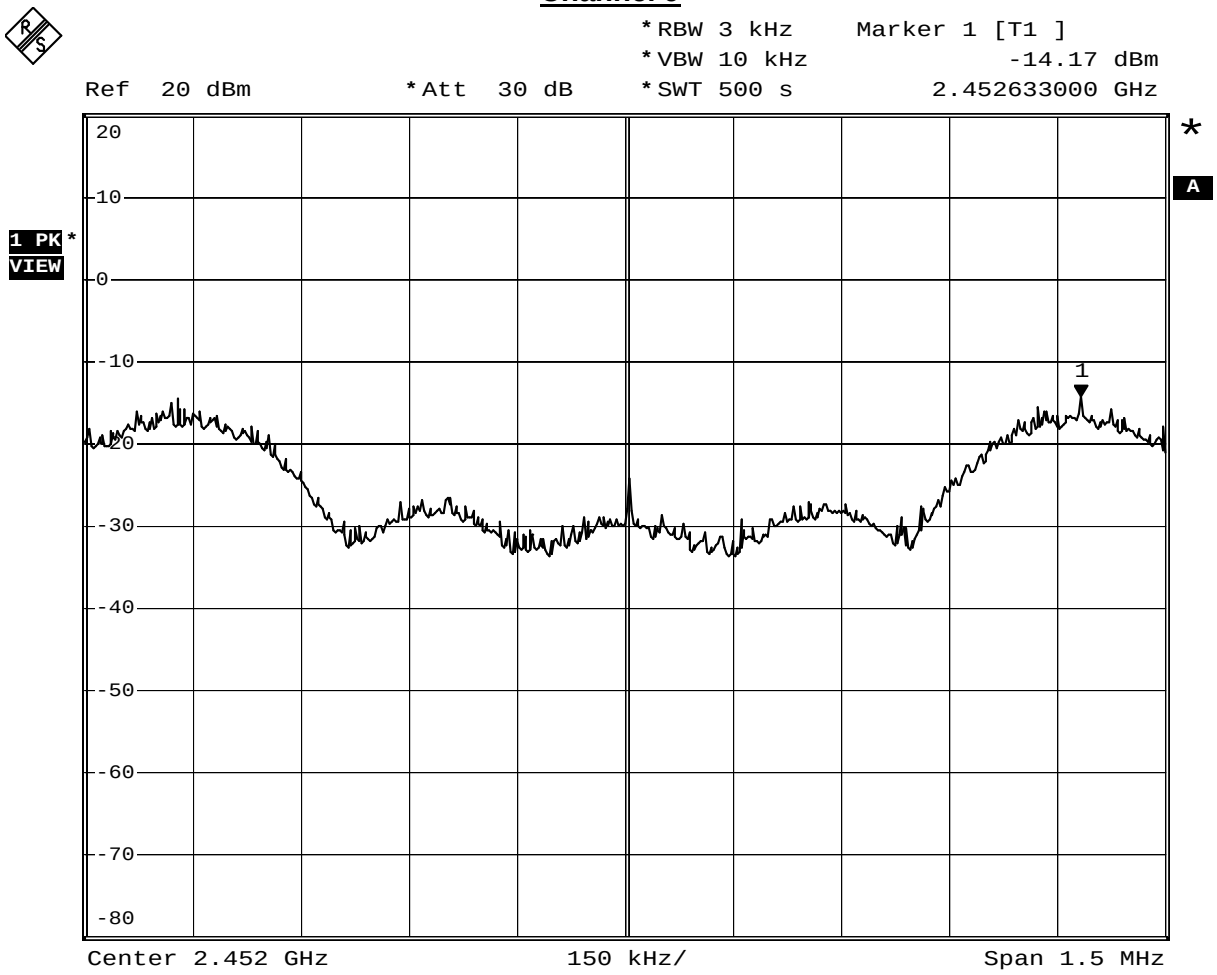
Channel 6



Date: 24.JUN.2009 16:33:58

IEEE 802.11n MCS08 40MHz_2TX ; ANT A

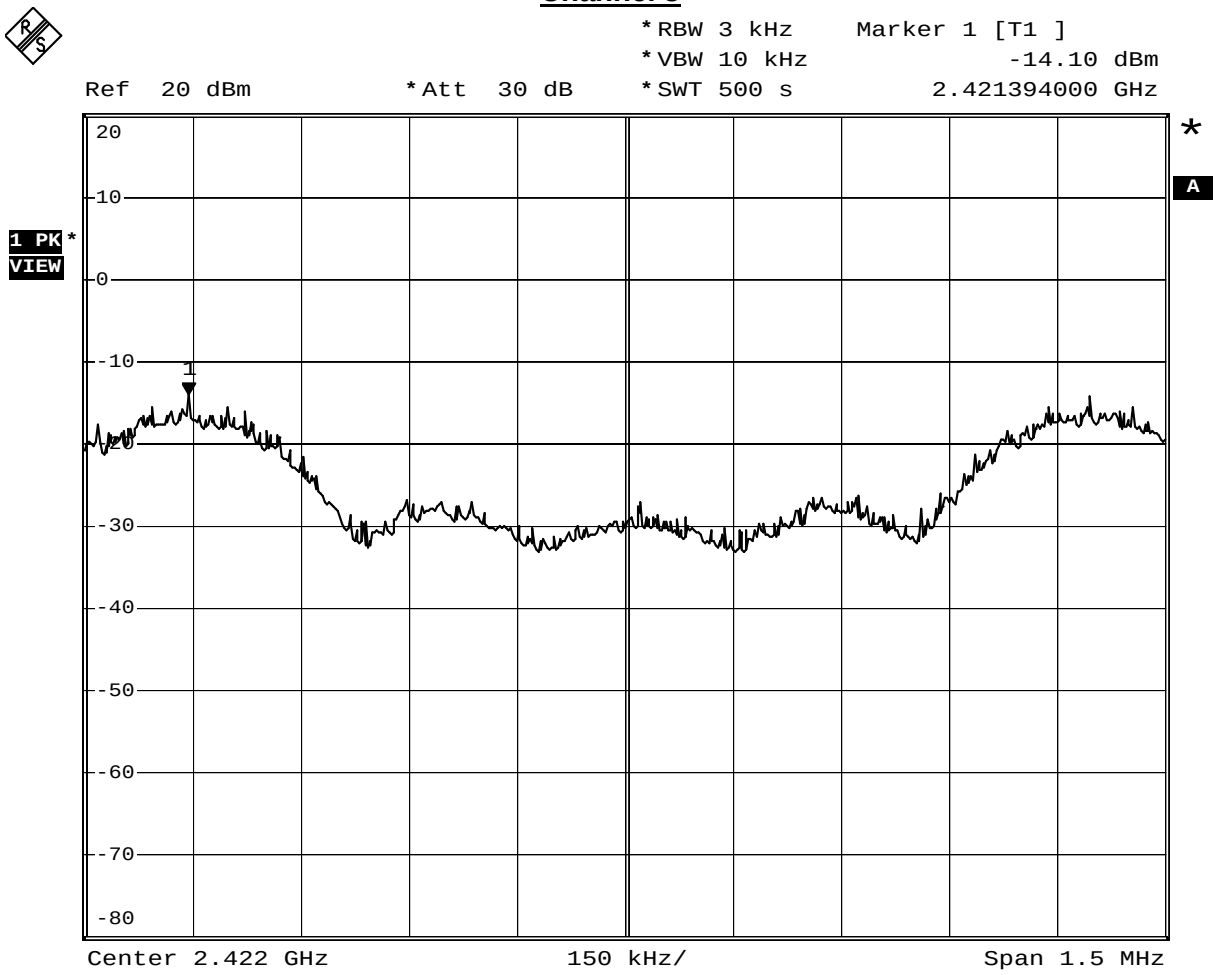
Channel 9



Date: 24.JUN.2009 16:38:30

IEEE 802.11n MCS08 40MHz_2TX ; ANT B

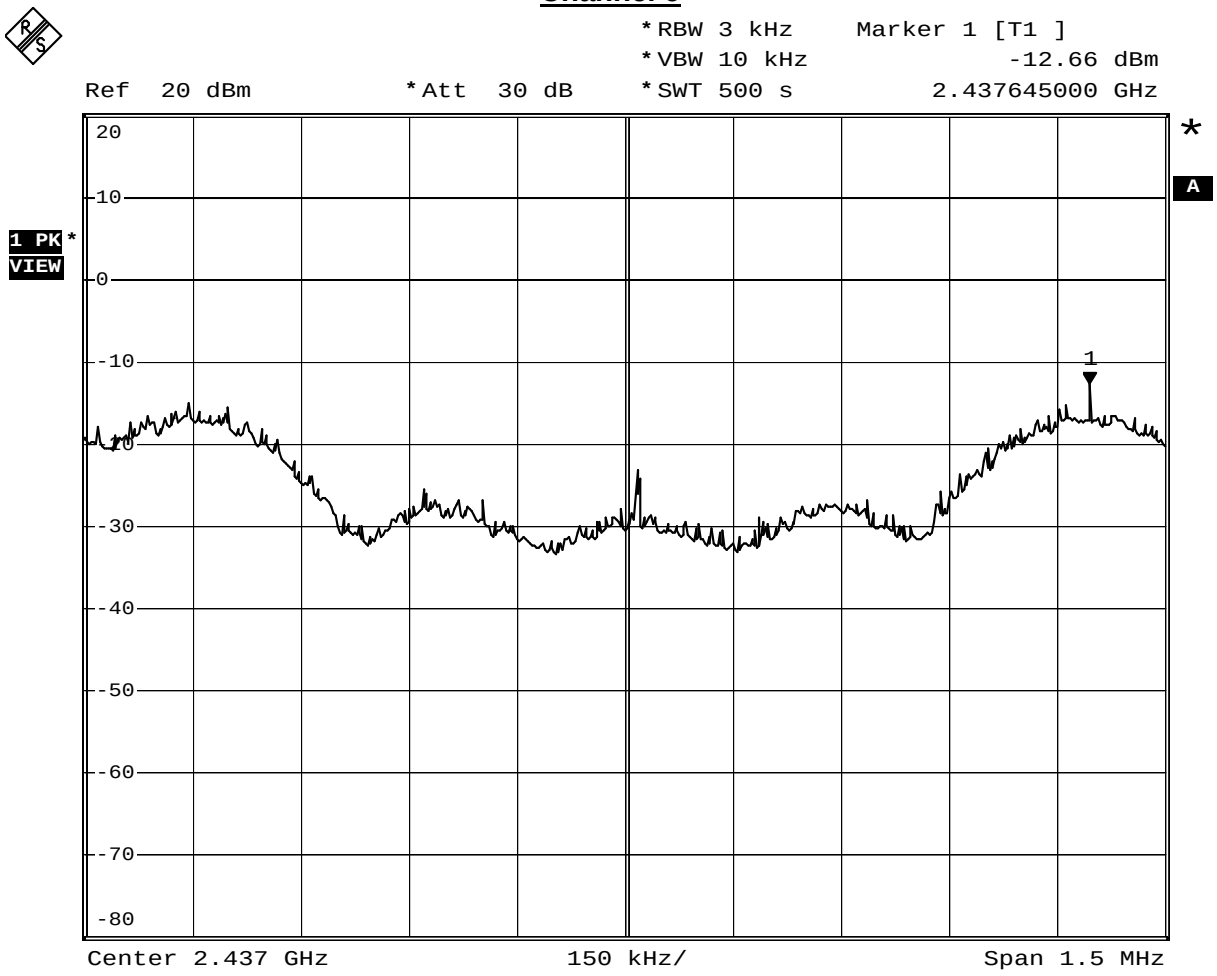
Channel 3



Date: 24.JUN.2009 17:09:12

IEEE 802.11n MCS08 40MHz_2TX ; ANT B

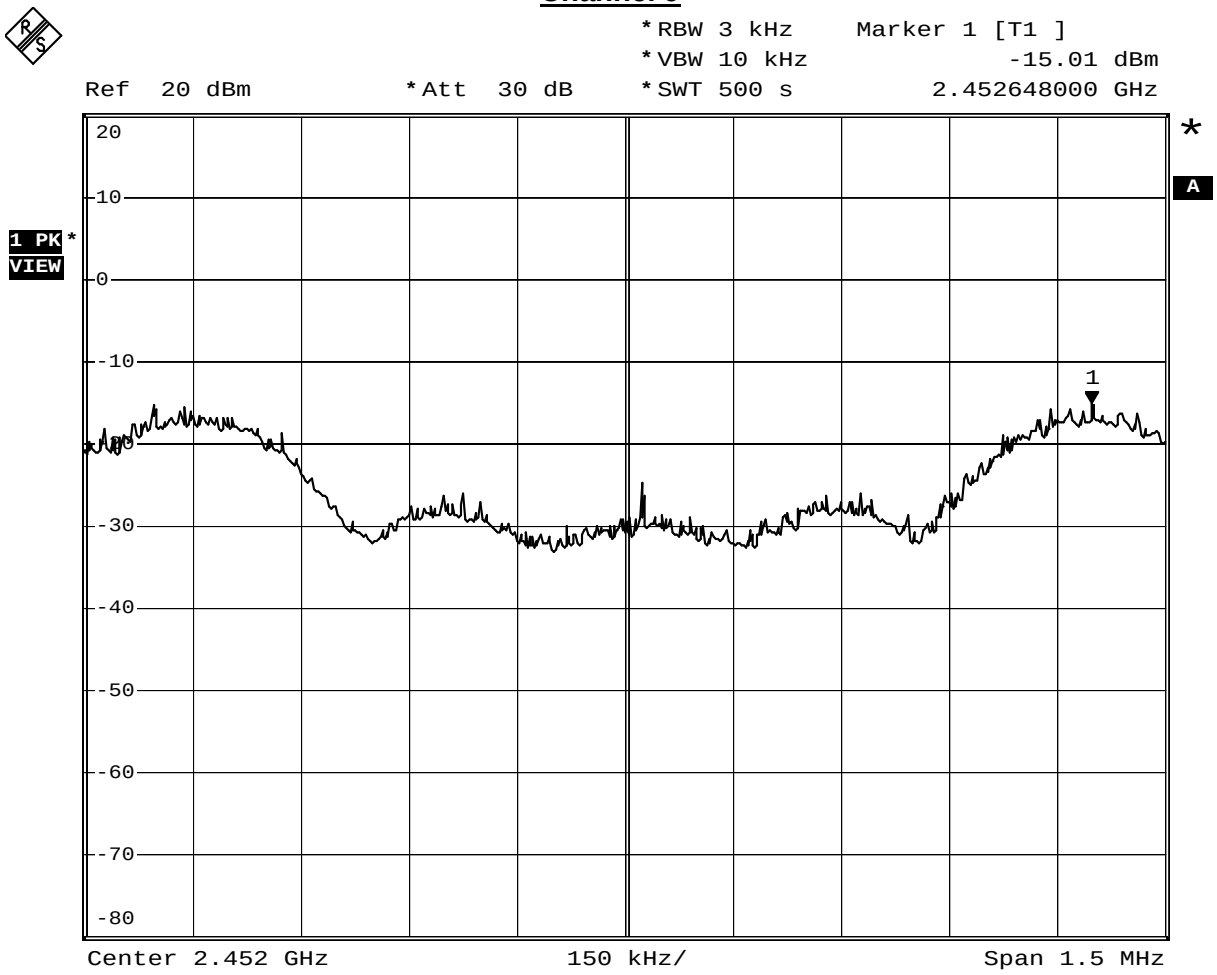
Channel 6



Date: 24.JUN.2009 17:19:15

IEEE 802.11n MCS08 40MHz_2TX ; ANT B

Channel 9



Date: 24.JUN.2009 17:44:33