Test Report

Product Name ： Wireless N Router with All-in-One Printer Server
Model No. ： RT-N13U
FCC ID. ： MSQ-RTN13U

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

Date of Receipt ： 2009/03/31
Issued Date ： 2009/04/23
Report No. ： 094062R-RFUSP05V01
Report Version ： V1.0

The test results relate only to the samples tested.
The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

Test Report Certification

Issued Date : 2009/04/23
Report No. : 094062R-RFUSP05V01

QuieTek

Product Name	:	Wireless N Router with All-in-One Printer Server
Applicant	:	ASUSTeK COMPUTER INC.
Address	:	No. 15, Li-Te Rd., Peitou, Taipei 112,Taiwan
Manufacturer	:	(1) AUSUTeK COMPUTER INC.
		(2) PEGATRON CORPORATION
		(3) PRO-NETS Technology Corgoration
		(4) GSTek (Shenzhen) Corporation
Model No.	:	RT-N13U
FCC ID.	:	MSQ-RTN13U
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

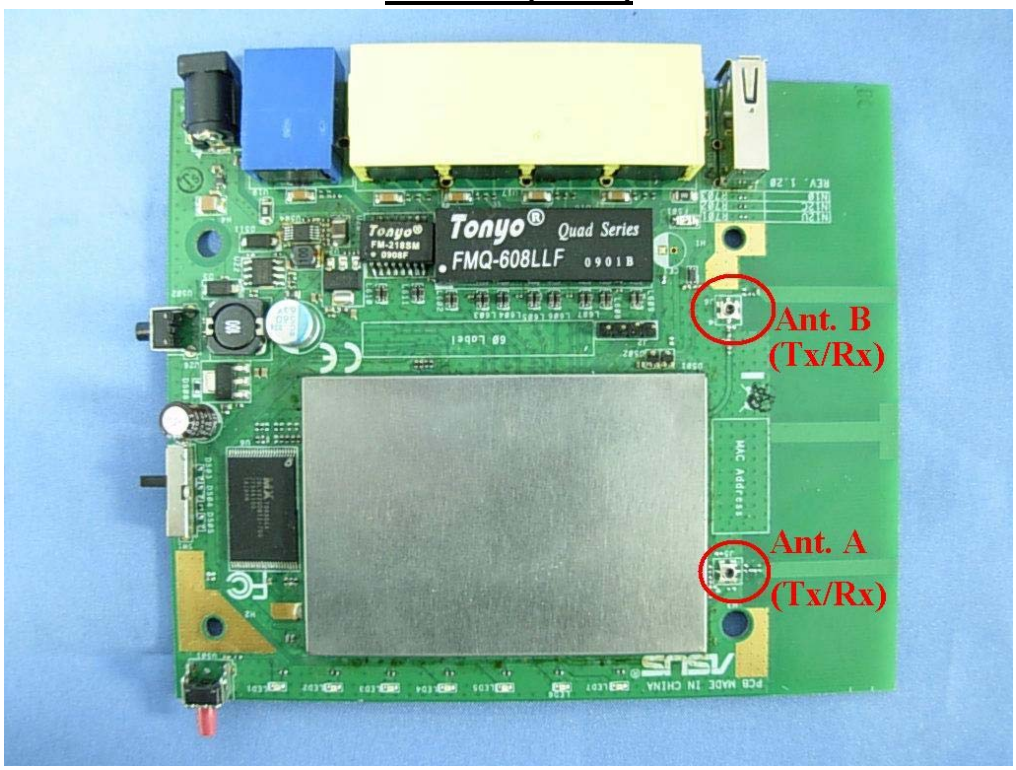
Product Name	Wireless N Router with All-in-One Printer Server
Product Type	WLAN(2TX,2RX)
Trade Name	ASUS
Model No.	RT-N13U
Frequency Range -IEEE 802.11b/g & IEEE 802.11n (20MHz)	2412~2462MHz
Frequency Range- IEEE 802.11n (40MHz)	2422~2452MHz
Channel Number (IEEE 802.11b/g & IEEE 802.11n (20MHz))	11
Channel 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): 2.77dBi; ANT B (TX/RX): 3.85 dBi
Channel Control	Manual
Antenna Type	Printed

Component	
LAN Cable	Non-Shielded, 1m
Power Adapter (Mode 1)	PI Electronics, T012LF120F I/P: 100-120V 50/60Hz 0.5A O/P: 12V, 1A Cable Out: Non-Shielded, 1.8m
Power Adapter (Mode 2)	OEM, ADS0129-W I/P: 100-240V 50/60Hz 0.5A O/P: 12V, 1.0A 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 a Wireless N Router with All-in-One Printer Server, which including 2.4GHz b/g and 11n (2x2) transmitting and receiving function.
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart C Paragraph 15.247.
3. Regards to the frequency band operation; the lowest、middle and highest frequency of channel were selected to perform the test, and then shown on this report.
4. This device is a composite device in accordance with Part 15 regulations. The receiving function receiving was tested and its test report number is 094062R-RFUSP37V02 under Declaration of Conformity.

1.2. Operational Description

The EUT is a 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 RT-N13U Wireless Router is supplied with an Ethernet cable in the package. The wireless router has an integrated auto-crossover function. The RT-N13U Wireless Router has two transmitters and two 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 RT-N13U Wireless 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 (Adapter: PI Electronics) Mode 2: Transmit (Adapter: OEM)

Test Items	Mode1	Channel	Antenna	Result
Conducted Emission	b/g/11n(20M)/11n(40MHz)	6	A/A+B	Complies
Peak Power Output	b/g	1 /6/ 11	A	Complies
	11n-MCS15(20MHz)	1 /6/ 11	A+B	Complies
	11n-MCS15 (40MHz)	3 /6/ 9	A+B	Complies
Radiated Emission	b/g	1 /6/ 11	A	Complies
	11n-MCS15(20MHz)	1 /6/ 11	A+B	Complies
	11n-MCS15 (40MHz)	3 /6/ 9	A+B	Complies
RF antenna conducted test	b/g	1 /6/ 11	A	Complies
	11n-MCS15 (20MHz)	1 /6/ 11	A/B	Complies
	11n-MCS15 (40MHz)	3 /6/ 9	A/B	Complies
Radiated Emission Band Edge	b/g	1 /6/ 11	A	Complies
	11n-MCS15 (20MHz)	1 /6/ 11	A+B	Complies
	11n-MCS15 (40MHz)	3 /6/ 9	A+B	Complies
Occupied Bandwidth	b/g	1 /6/ 11	A	Complies
	11n-MCS15 (20MHz)	1 /6/ 11	A/B	Complies
	11n-MCS15 (40MHz)	3 /6/ 9	A/B	Complies
Power Density	b/g	1 /6/ 11	A	Complies
	11n-MCS15 (20MHz)	1 /6/ 11	A+B	Complies
	11n-MCS15 (40MHz)	3 /6/ 9	A+B	Complies

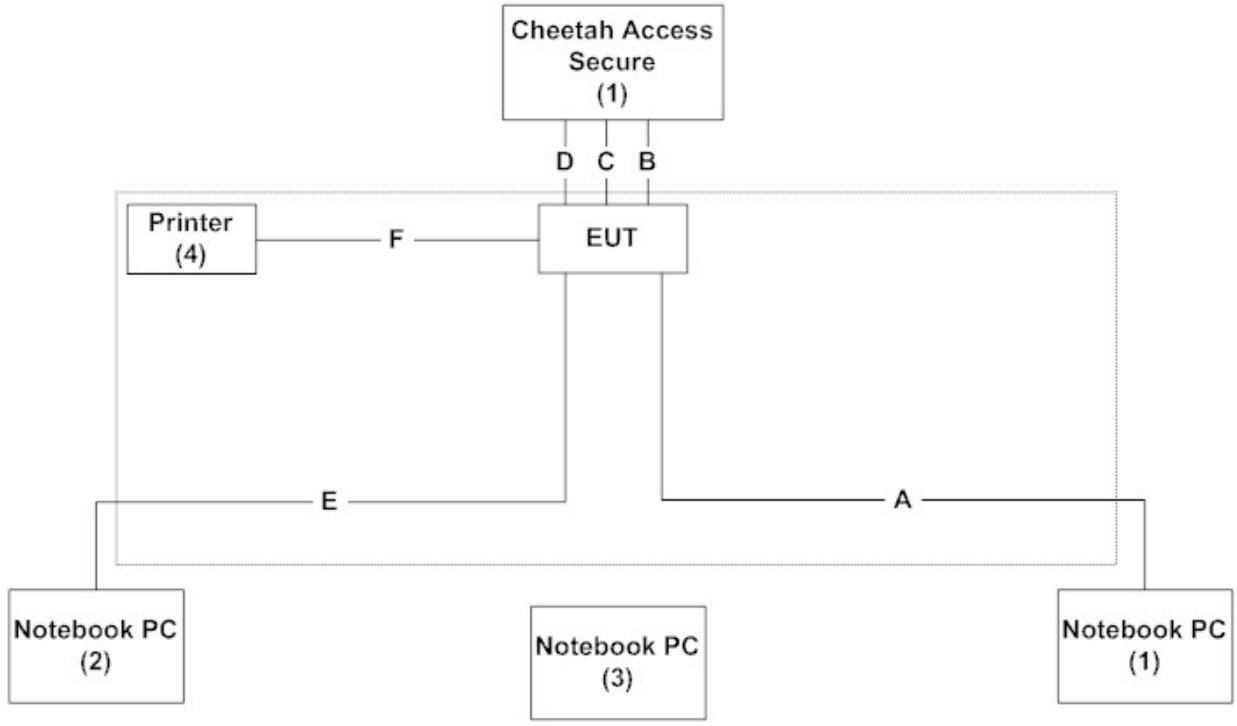
1.4. Tested System Details

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 D400	GK43D1S	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 610	N/A	DoC	Non-shielded, 1.7m, a ferrite core bonded
4	Printer	HP	C2642A	MY75L1D2XN	DoC	Non-shielded, 0.7m
5	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, 2m
C	LAN Cable	Non-Shielded, 2m
D	LAN Cable	Non-Shielded, 2m
E	LAN Cable	Non-Shielded, 10m
F	USB Cable	Shielded, 2m

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

Testing Laboratory
1313

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

NVLAP Lab Code : 200347-0

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

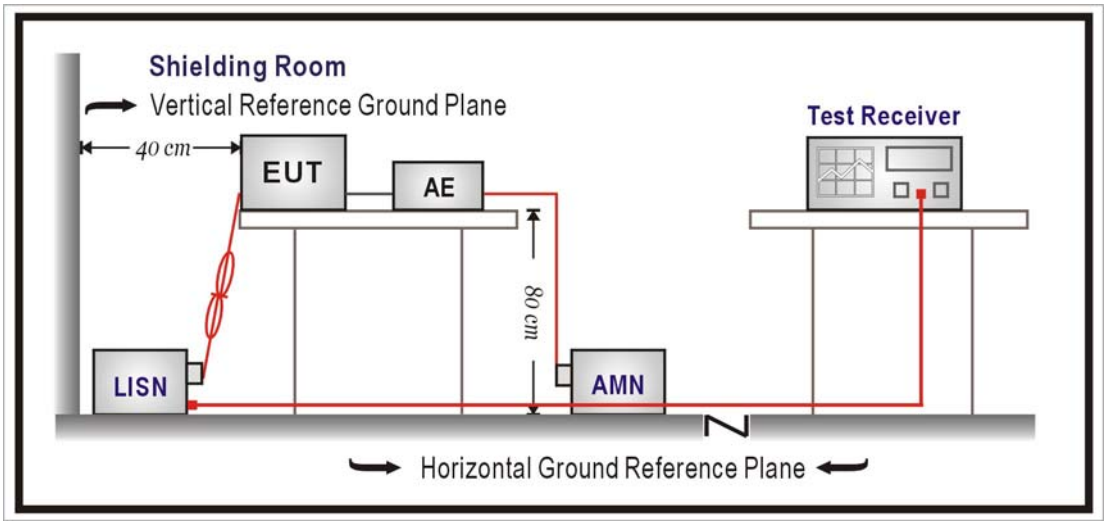
The following test equipments are used during the test:

Conducted Emission / SR2

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
4-Wire ISN	R & S	ENY 41	837032/001	2008/04/15
Artificial Mains Network	R & S	ENV4200	848411/010	2009/03/13
Double 2-Wire ISN	R & S	ENY 22	835354/008	2008/04/15
LISN	R & S	ESH3-Z5	825562/002	2009/03/31
Pulse Limiter	R & S	ZSH3Z2	357.8810.54	2008/07/19
Test Receiver	R & S	ESCS 30	100122	2009/02/21

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

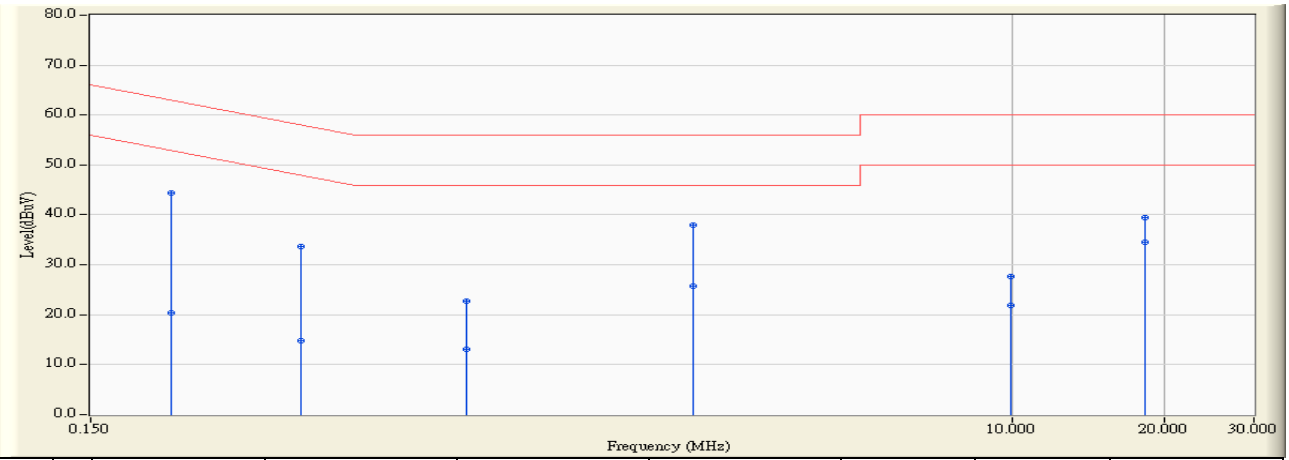
The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.
The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane 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 : SR2	**Time : 2009/04/13 - 10:12**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-LISN(16A) - Line1	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 1: Transmit (Adapter: PI Electronics)-B**

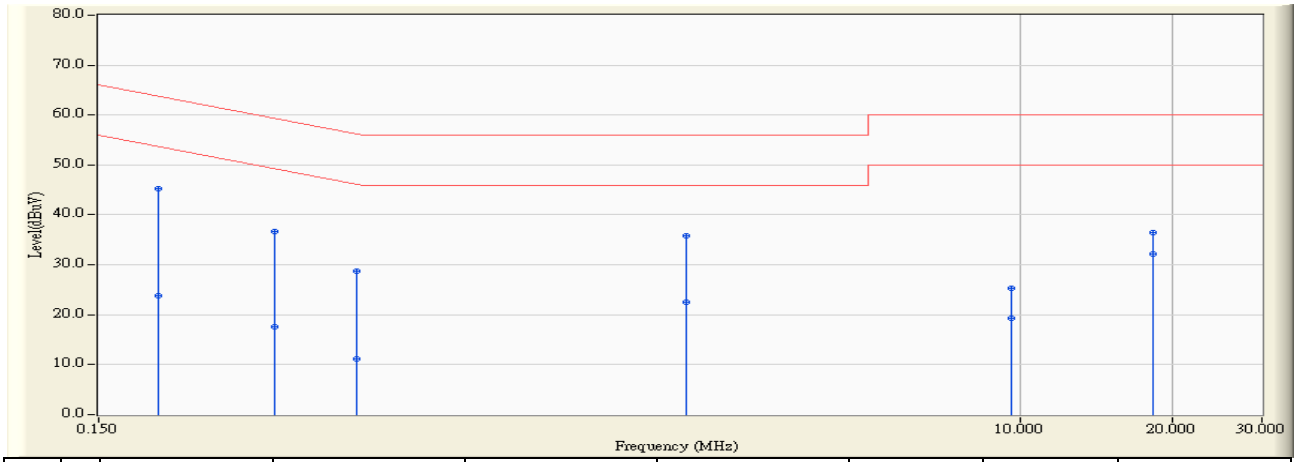


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.216	9.667	34.820	44.487	-18.468	62.956	QUASIPEAK
2		0.216	9.667	10.760	20.427	-32.528	52.956	AVERAGE
3		0.392	9.762	23.880	33.641	-24.376	58.017	QUASIPEAK
4		0.392	9.762	5.050	14.811	-33.206	48.017	AVERAGE
5		0.834	9.820	12.830	22.650	-33.350	56.000	QUASIPEAK
6		0.834	9.820	3.350	13.170	-32.830	46.000	AVERAGE
7		2.330	9.814	28.250	38.064	-17.936	56.000	QUASIPEAK
8		2.330	9.814	15.860	25.674	-20.326	46.000	AVERAGE
9		9.935	10.106	17.550	27.656	-32.344	60.000	QUASIPEAK
10		9.935	10.106	11.690	21.796	-28.204	50.000	AVERAGE
11		18.243	10.250	29.160	39.410	-20.590	60.000	QUASIPEAK
12	*	18.243	10.250	24.230	34.480	-15.520	50.000	AVERAGE

Note:

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

Site : SR2	**Time : 2009/04/13 - 10:16**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-LISN(16A) - Line2	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 1: Transmit (Adapter: PI Electronics)-B**

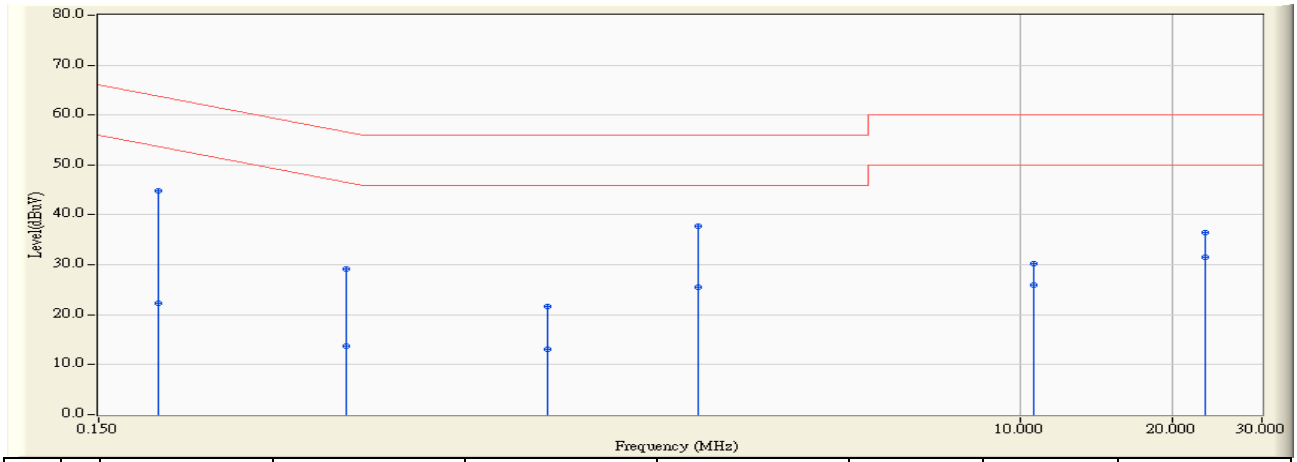


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.197	9.689	35.530	45.219	-18.522	63.741	QUASIPEAK
2		0.197	9.689	14.190	23.879	-29.862	53.741	AVERAGE
3		0.334	9.736	27.010	36.747	-22.615	59.361	QUASIPEAK
4		0.334	9.736	7.890	17.627	-31.735	49.361	AVERAGE
5		0.486	9.803	19.040	28.843	-27.394	56.237	QUASIPEAK
6		0.486	9.803	1.360	11.163	-35.074	46.237	AVERAGE
7		2.185	9.831	25.940	35.771	-20.229	56.000	QUASIPEAK
8		2.185	9.831	12.620	22.451	-23.549	46.000	AVERAGE
9		9.572	10.089	15.220	25.309	-34.691	60.000	QUASIPEAK
10		9.572	10.089	9.120	19.209	-30.791	50.000	AVERAGE
11		18.242	10.361	26.020	36.380	-23.620	60.000	QUASIPEAK
12	*	18.242	10.361	21.850	32.210	-17.790	50.000	AVERAGE

Note:

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

Site : SR2	**Time : 2009/04/13 - 10:25**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-LISN(16A) - Line1	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 1: Transmit (Adapter: PI Electronics)-G**

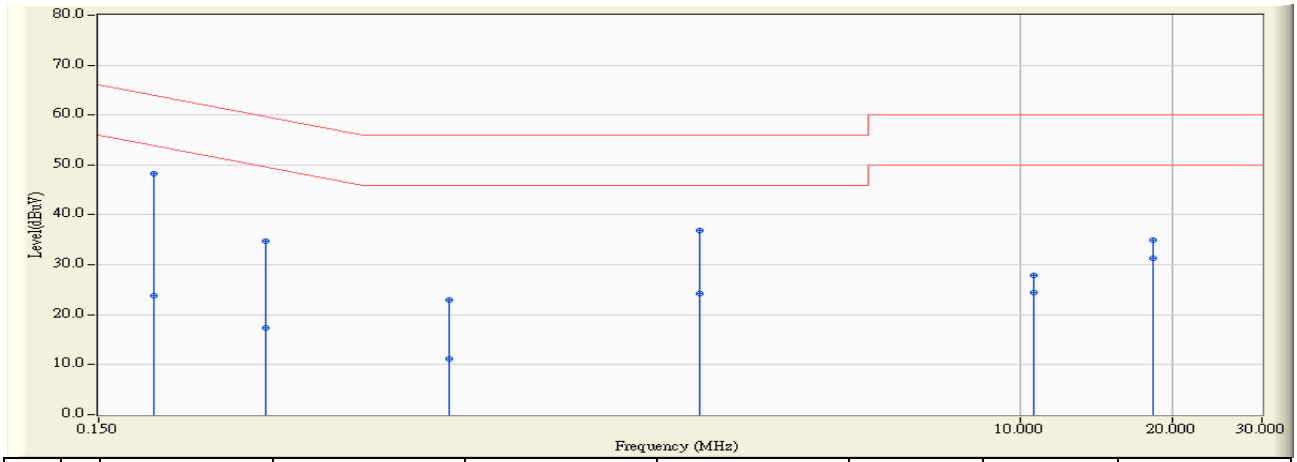


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.197	9.659	35.190	44.849	-18.892	63.741	QUASIPEAK
2		0.197	9.659	12.690	22.349	-31.392	53.741	AVERAGE
3		0.463	9.799	19.470	29.269	-27.378	56.648	QUASIPEAK
4		0.463	9.799	3.910	13.709	-32.938	46.648	AVERAGE
5		1.158	9.818	11.800	21.618	-34.382	56.000	QUASIPEAK
6		1.158	9.818	3.160	12.978	-33.022	46.000	AVERAGE
7	*	2.298	9.814	27.880	37.694	-18.306	56.000	QUASIPEAK
8		2.298	9.814	15.730	25.544	-20.456	46.000	AVERAGE
9		10.627	10.110	20.080	30.190	-29.810	60.000	QUASIPEAK
10		10.627	10.110	15.780	25.890	-24.110	50.000	AVERAGE
11		23.128	10.356	26.020	36.376	-23.624	60.000	QUASIPEAK
12		23.128	10.356	21.200	31.556	-18.444	50.000	AVERAGE

Note:

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

Site : SR2	**Time : 2009/04/13 - 10:32**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-LISN(16A) - Line2	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 1: Transmit (Adapter: PI Electronics)-G**

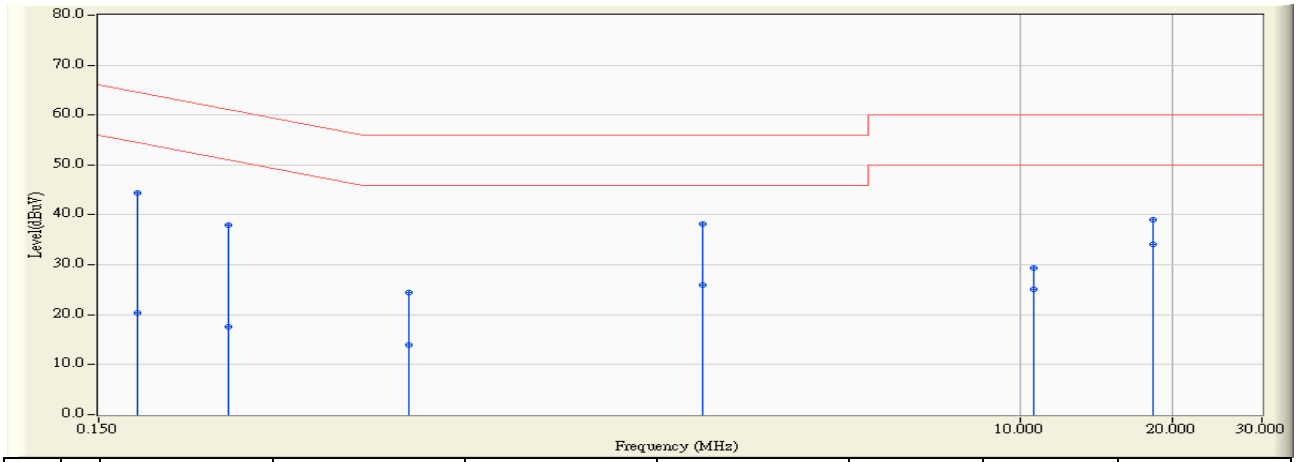


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.193	9.690	38.650	48.340	-15.570	63.910	QUASIPEAK
2		0.193	9.690	14.110	23.800	-30.110	53.910	AVERAGE
3		0.322	9.732	25.100	34.832	-24.827	59.658	QUASIPEAK
4		0.322	9.732	7.660	17.392	-32.267	49.658	AVERAGE
5		0.740	9.810	13.140	22.950	-33.050	56.000	QUASIPEAK
6		0.740	9.810	1.250	11.060	-34.940	46.000	AVERAGE
7		2.314	9.831	27.130	36.961	-19.039	56.000	QUASIPEAK
8		2.314	9.831	14.480	24.311	-21.689	46.000	AVERAGE
9		10.627	10.116	17.740	27.856	-32.144	60.000	QUASIPEAK
10		10.627	10.116	14.250	24.366	-25.634	50.000	AVERAGE
11		18.304	10.364	24.640	35.004	-24.996	60.000	QUASIPEAK
12		18.304	10.364	20.850	31.214	-18.786	50.000	AVERAGE

Note:

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

Site : SR2	**Time : 2009/04/13 - 10:41**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-LISN(16A) - Line1	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 1: Transmit (Adapter: PI Electronics)-20M**

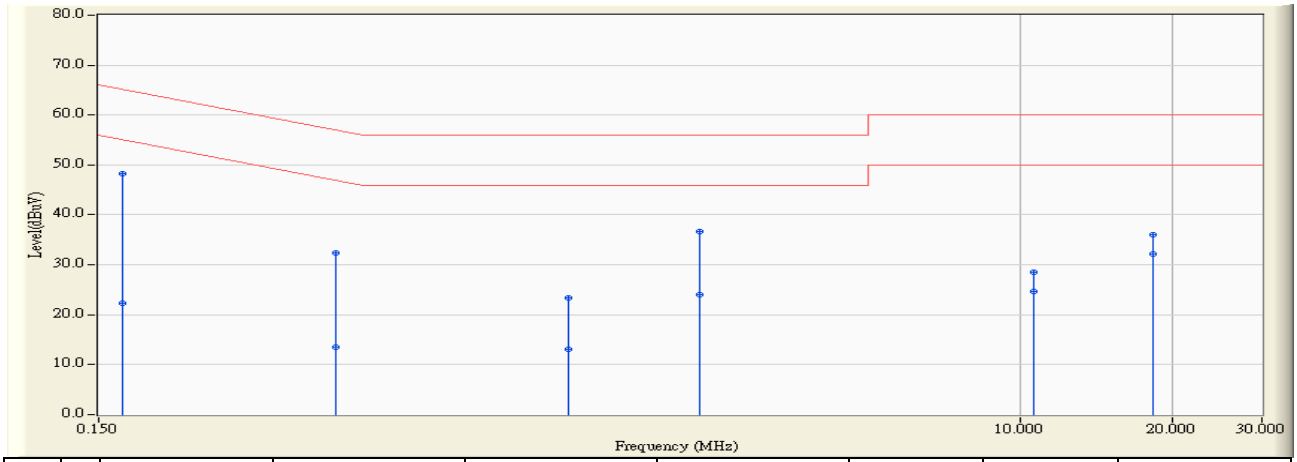


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.179	9.655	34.760	44.415	-20.124	64.539	QUASIPEAK
2		0.179	9.655	10.620	20.275	-34.264	54.539	AVERAGE
3		0.271	9.697	28.180	37.876	-23.208	61.084	QUASIPEAK
4		0.271	9.697	7.950	17.646	-33.438	51.084	AVERAGE
5		0.615	9.820	14.670	24.490	-31.510	56.000	QUASIPEAK
6		0.615	9.820	4.100	13.920	-32.080	46.000	AVERAGE
7		2.353	9.815	28.440	38.255	-17.745	56.000	QUASIPEAK
8		2.353	9.815	16.170	25.985	-20.015	46.000	AVERAGE
9		10.615	10.110	19.330	29.440	-30.560	60.000	QUASIPEAK
10		10.615	10.110	15.080	25.190	-24.810	50.000	AVERAGE
11		18.243	10.250	28.800	39.050	-20.950	60.000	QUASIPEAK
12	*	18.243	10.250	23.920	34.170	-15.830	50.000	AVERAGE

Note:

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

Site : SR2	**Time : 2009/04/13 - 10:50**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-LISN(16A) - Line2	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 1: Transmit (Adapter: PI Electronics)-20M**

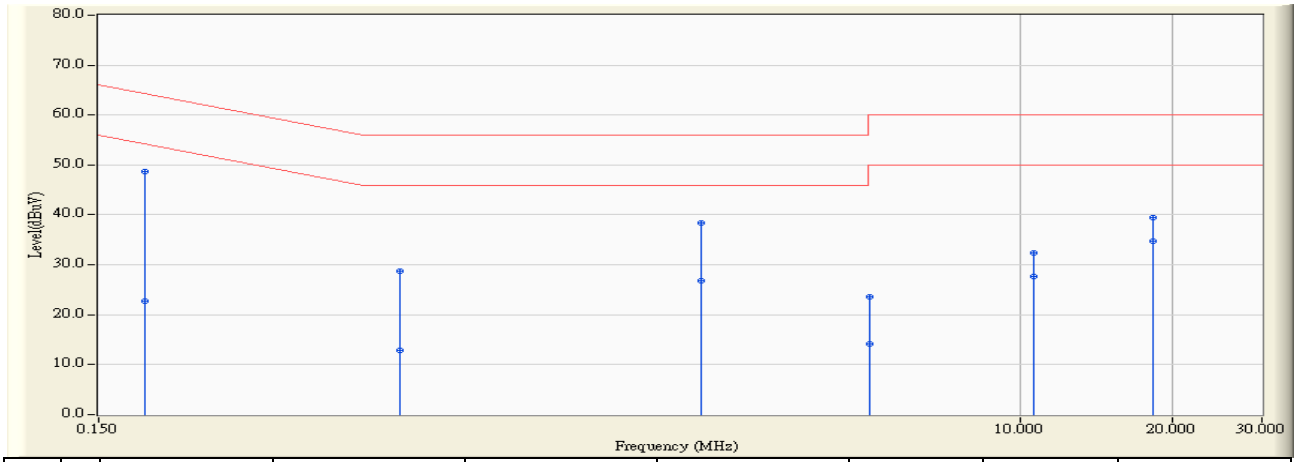


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.167	9.713	38.560	48.273	-16.818	65.092	QUASIPEAK
2		0.167	9.713	12.660	22.373	-32.718	55.092	AVERAGE
3		0.443	9.785	22.630	32.415	-24.591	57.006	QUASIPEAK
4		0.443	9.785	3.710	13.495	-33.511	47.006	AVERAGE
5		1.271	9.815	13.480	23.295	-32.705	56.000	QUASIPEAK
6		1.271	9.815	3.350	13.165	-32.835	46.000	AVERAGE
7		2.322	9.831	26.770	36.601	-19.399	56.000	QUASIPEAK
8		2.322	9.831	14.120	23.951	-22.049	46.000	AVERAGE
9		10.617	10.116	18.330	28.446	-31.554	60.000	QUASIPEAK
10		10.617	10.116	14.610	24.726	-25.274	50.000	AVERAGE
11		18.243	10.361	25.610	35.970	-24.030	60.000	QUASIPEAK
12		18.243	10.361	21.910	32.270	-17.730	50.000	AVERAGE

Note:

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

Site : SR2	**Time : 2009/04/13 - 10:55**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-LISN(16A) - Line1	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 1: Transmit (Adapter: PI Electronics)-40M**

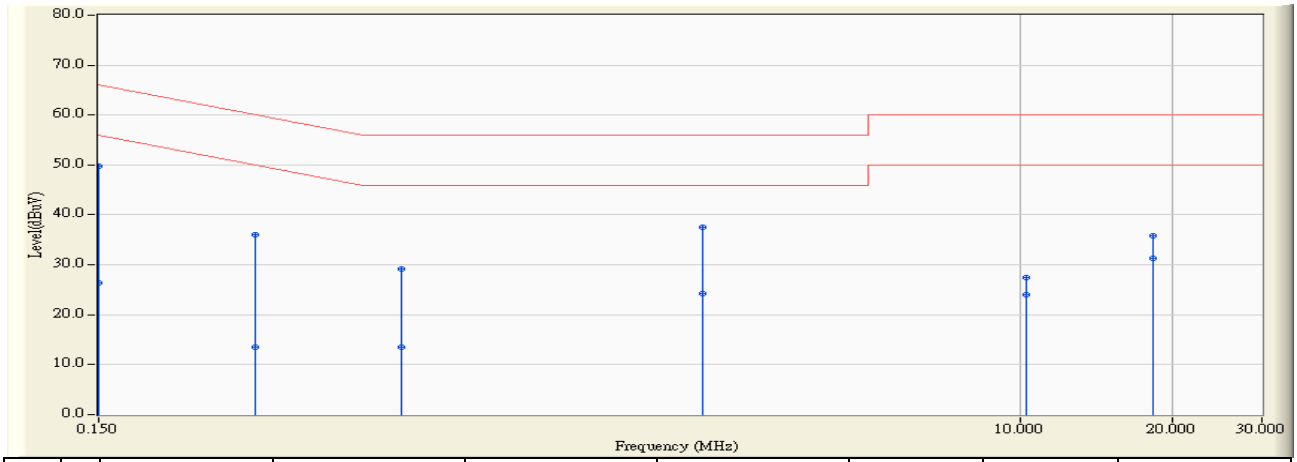


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.185	9.656	38.940	48.596	-15.655	64.251	QUASIPEAK
2		0.185	9.656	13.040	22.696	-31.555	54.251	AVERAGE
3		0.591	9.820	18.880	28.700	-27.300	56.000	QUASIPEAK
4		0.591	9.820	3.080	12.900	-33.100	46.000	AVERAGE
5		2.337	9.814	28.600	38.414	-17.586	56.000	QUASIPEAK
6		2.337	9.814	17.030	26.844	-19.156	46.000	AVERAGE
7		5.037	9.851	13.790	23.642	-36.358	60.000	QUASIPEAK
8		5.037	9.851	4.200	14.052	-35.948	50.000	AVERAGE
9		10.611	10.110	22.360	32.470	-27.530	60.000	QUASIPEAK
10		10.611	10.110	17.570	27.680	-22.320	50.000	AVERAGE
11		18.243	10.250	29.180	39.430	-20.570	60.000	QUASIPEAK
12	*	18.243	10.250	24.410	34.660	-15.340	50.000	AVERAGE

Note:

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

Site : SR2	**Time : 2009/04/13 - 11:04**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-LISN(16A) - Line2	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 1: Transmit (Adapter: PI Electronics)-40M**

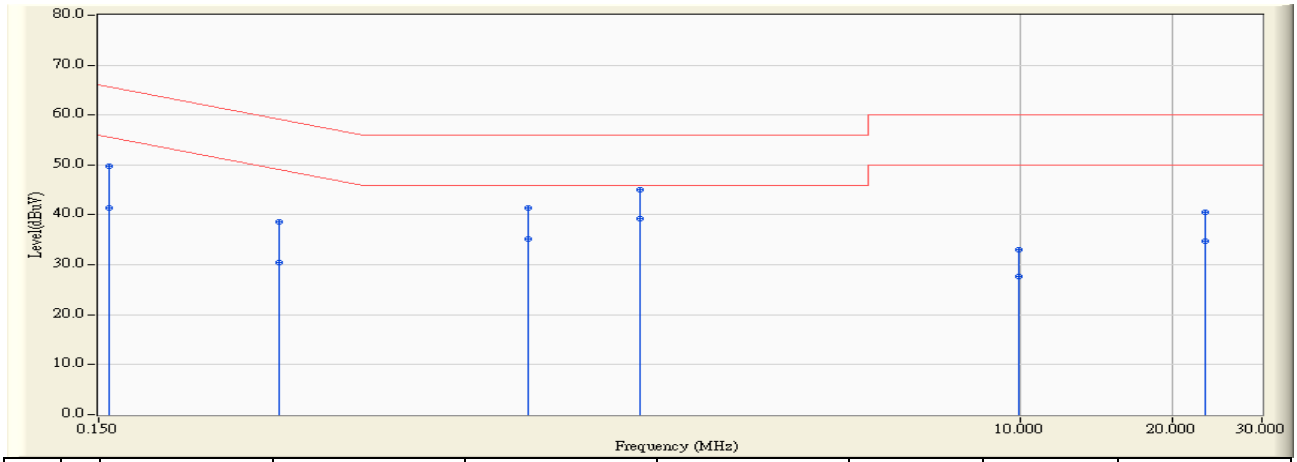


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.150	9.707	40.050	49.757	-16.243	66.000	QUASIPEAK
2		0.150	9.707	16.780	26.487	-29.513	56.000	AVERAGE
3		0.306	9.725	26.370	36.095	-23.977	60.072	QUASIPEAK
4		0.306	9.725	3.710	13.435	-36.637	50.072	AVERAGE
5		0.595	9.810	19.260	29.070	-26.930	56.000	QUASIPEAK
6		0.595	9.810	3.610	13.420	-32.580	46.000	AVERAGE
7		2.345	9.831	27.750	37.581	-18.419	56.000	QUASIPEAK
8		2.345	9.831	14.380	24.211	-21.789	46.000	AVERAGE
9		10.253	10.113	17.430	27.543	-32.457	60.000	QUASIPEAK
10		10.253	10.113	13.860	23.973	-26.027	50.000	AVERAGE
11		18.244	10.361	25.530	35.890	-24.110	60.000	QUASIPEAK
12		18.244	10.361	20.980	31.340	-18.660	50.000	AVERAGE

Note:

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

Site : SR2	**Time : 2009/04/13 - 13:22**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-LISN(16A) - Line1	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 2: Transmit (Adapter: OEM)-B**

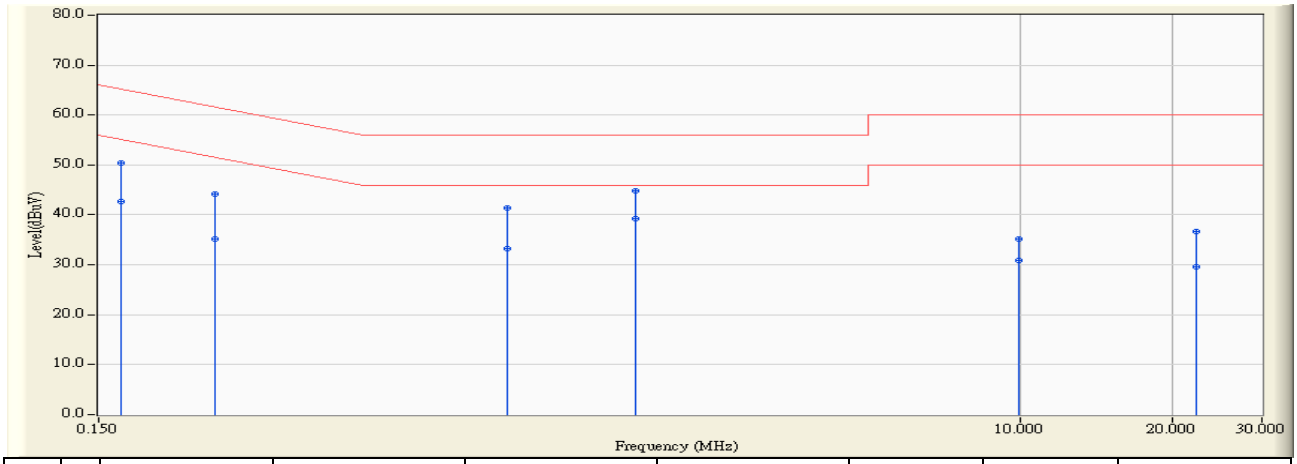


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.158	9.651	40.190	49.840	-15.738	65.578	QUASIPEAK
2		0.158	9.651	31.700	41.350	-14.228	55.578	AVERAGE
3		0.341	9.734	28.830	38.564	-20.605	59.169	QUASIPEAK
4		0.341	9.734	20.690	30.424	-18.745	49.169	AVERAGE
5		1.064	9.819	31.470	41.289	-14.711	56.000	QUASIPEAK
6		1.064	9.819	25.300	35.119	-10.881	46.000	AVERAGE
7		1.763	9.812	35.140	44.952	-11.048	56.000	QUASIPEAK
8	*	1.763	9.812	29.520	39.332	-6.668	46.000	AVERAGE
9		9.916	10.106	22.890	32.995	-27.005	60.000	QUASIPEAK
10		9.916	10.106	17.490	27.595	-22.405	50.000	AVERAGE
11		23.127	10.356	30.220	40.576	-19.424	60.000	QUASIPEAK
12		23.127	10.356	24.430	34.786	-15.214	50.000	AVERAGE

Note:

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

Site : SR2	**Time : 2009/04/13 - 13:25**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-LISN(16A) - Line2	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 2: Transmit (Adapter: OEM)-B**

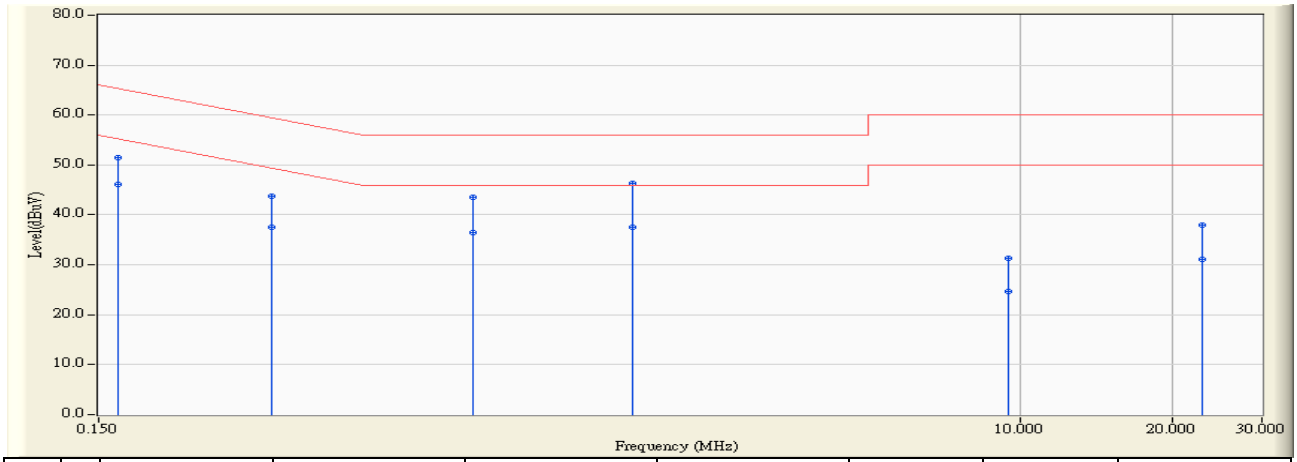


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.166	9.715	40.780	50.495	-14.682	65.177	QUASIPEAK
2		0.166	9.715	33.020	42.735	-12.442	55.177	AVERAGE
3		0.255	9.703	34.540	44.242	-17.335	61.577	QUASIPEAK
4		0.255	9.703	25.470	35.172	-16.405	51.577	AVERAGE
5		0.963	9.810	31.600	41.410	-14.590	56.000	QUASIPEAK
6		0.963	9.810	23.430	33.240	-12.760	46.000	AVERAGE
7		1.732	9.825	35.020	44.845	-11.155	56.000	QUASIPEAK
8	*	1.732	9.825	29.420	39.245	-6.755	46.000	AVERAGE
9		9.920	10.106	24.980	35.086	-24.914	60.000	QUASIPEAK
10		9.920	10.106	20.700	30.806	-19.194	50.000	AVERAGE
11		22.216	10.519	26.200	36.719	-23.281	60.000	QUASIPEAK
12		22.216	10.519	19.030	29.549	-20.451	50.000	AVERAGE

Note:

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

Site : SR2	**Time : 2009/04/13 - 13:29**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-LISN(16A) - Line1	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 2: Transmit (Adapter: OEM)-G**

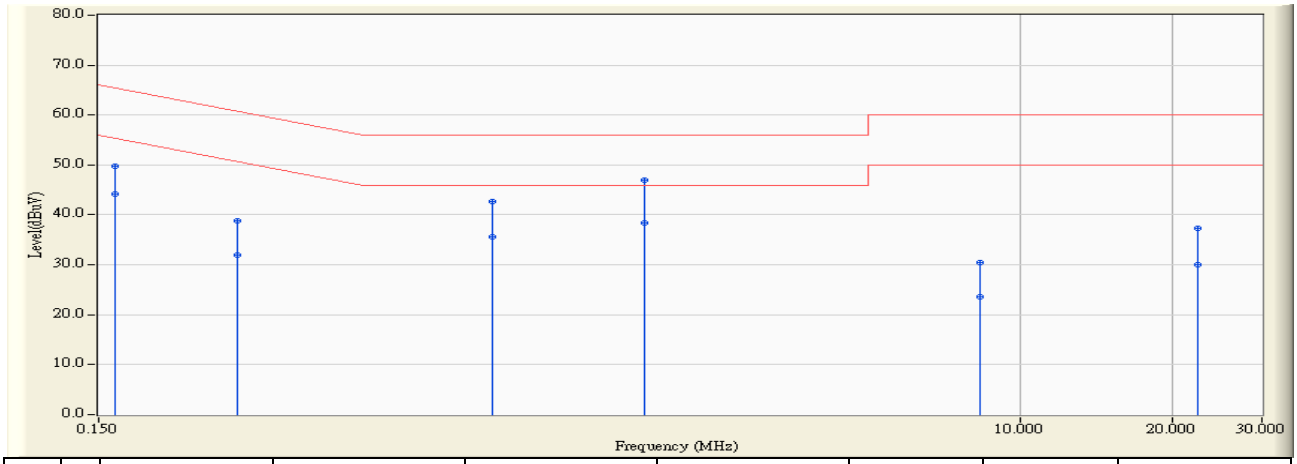


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.164	9.652	41.770	51.422	-13.841	65.264	QUASIPEAK
2		0.164	9.652	36.370	46.022	-9.241	55.264	AVERAGE
3		0.330	9.728	34.060	43.788	-15.671	59.459	QUASIPEAK
4		0.330	9.728	27.810	37.538	-11.921	49.459	AVERAGE
5		0.826	9.820	33.800	43.620	-12.380	56.000	QUASIPEAK
6		0.826	9.820	26.640	36.460	-9.540	46.000	AVERAGE
7		1.705	9.813	36.520	46.333	-9.667	56.000	QUASIPEAK
8	*	1.705	9.813	27.770	37.583	-8.417	46.000	AVERAGE
9		9.463	10.079	21.280	31.359	-28.641	60.000	QUASIPEAK
10		9.463	10.079	14.650	24.729	-25.271	50.000	AVERAGE
11		22.822	10.357	27.570	37.927	-22.073	60.000	QUASIPEAK
12		22.822	10.357	20.750	31.107	-18.893	50.000	AVERAGE

Note:

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

Site : SR2	**Time : 2009/04/13 - 13:33**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-LISN(16A) - Line2	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 2: Transmit (Adapter: OEM)-G**

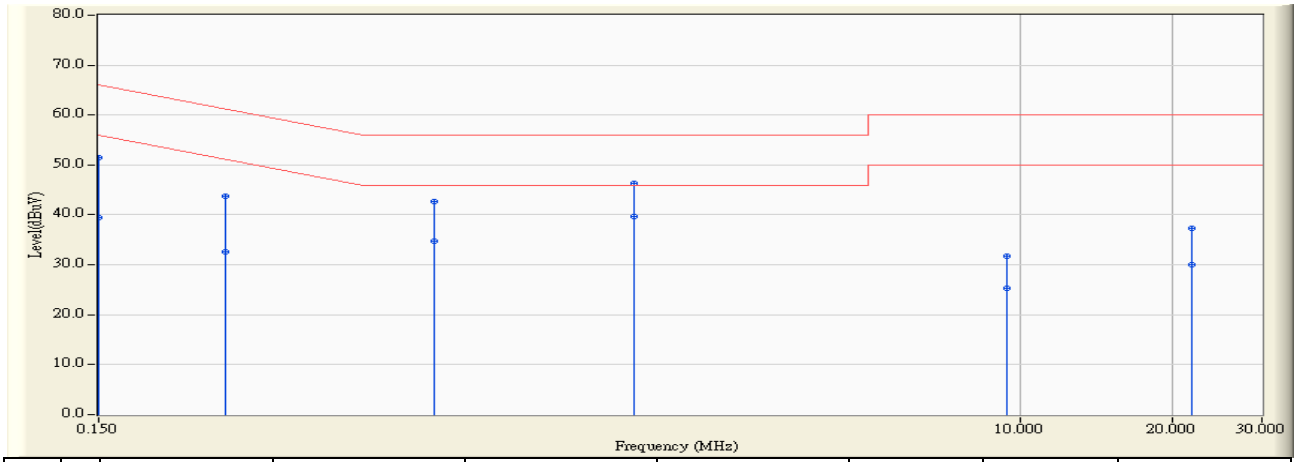


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	9.719	39.980	49.699	-15.676	65.375	QUASIPEAK
2		0.162	9.719	34.560	44.279	-11.096	55.375	AVERAGE
3		0.283	9.714	29.200	38.914	-21.818	60.733	QUASIPEAK
4		0.283	9.714	22.150	31.864	-18.868	50.733	AVERAGE
5		0.900	9.810	32.880	42.690	-13.310	56.000	QUASIPEAK
6		0.900	9.810	25.770	35.580	-10.420	46.000	AVERAGE
7		1.802	9.826	37.230	47.056	-8.944	56.000	QUASIPEAK
8	*	1.802	9.826	28.510	38.336	-7.664	46.000	AVERAGE
9		8.322	10.026	20.360	30.386	-29.614	60.000	QUASIPEAK
10		8.322	10.026	13.480	23.506	-26.494	50.000	AVERAGE
11		22.396	10.519	26.850	37.369	-22.631	60.000	QUASIPEAK
12		22.396	10.519	19.610	30.129	-19.871	50.000	AVERAGE

Note:

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

Site : SR2	**Time : 2009/04/13 - 13:36**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-LISN(16A) - Line1	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 2: Transmit (Adapter: OEM)-20M**

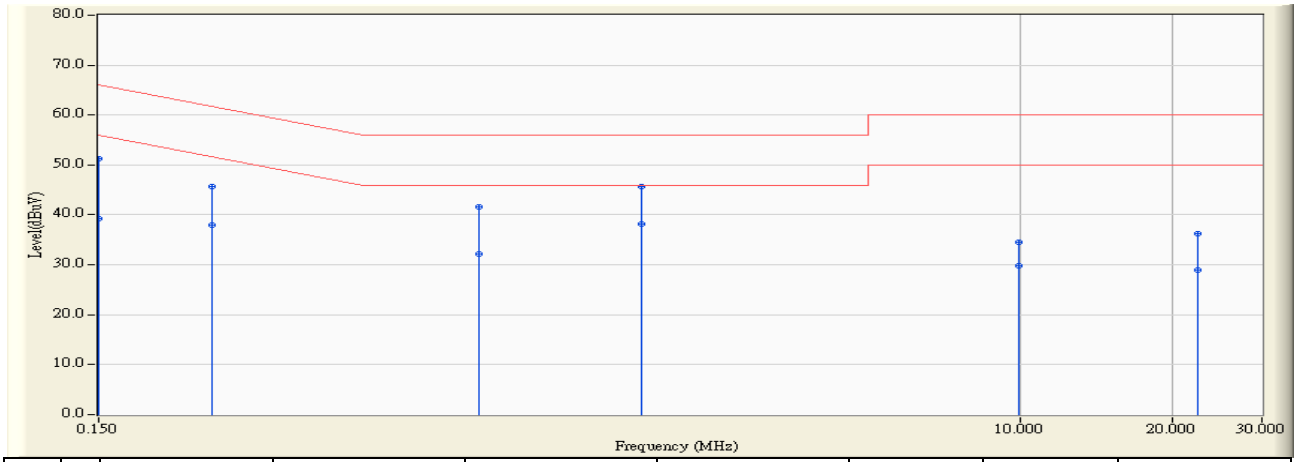


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	9.646	41.820	51.467	-14.533	66.000	QUASIPEAK
2		0.150	9.646	29.810	39.457	-16.543	56.000	AVERAGE
3		0.267	9.694	34.060	43.754	-17.451	61.205	QUASIPEAK
4		0.267	9.694	22.820	32.514	-18.691	51.205	AVERAGE
5		0.693	9.820	32.900	42.720	-13.280	56.000	QUASIPEAK
6		0.693	9.820	24.950	34.770	-11.230	46.000	AVERAGE
7		1.720	9.813	36.620	46.433	-9.567	56.000	QUASIPEAK
8	*	1.720	9.813	29.760	39.573	-6.427	46.000	AVERAGE
9		9.380	10.075	21.710	31.785	-28.215	60.000	QUASIPEAK
10		9.380	10.075	15.190	25.265	-24.735	50.000	AVERAGE
11		21.763	10.355	26.870	37.225	-22.775	60.000	QUASIPEAK
12		21.763	10.355	19.750	30.105	-19.895	50.000	AVERAGE

Note:

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

Site : SR2	**Time : 2009/04/13 - 13:40**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-LISN(16A) - Line2	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 2: Transmit (Adapter: OEM)-20M**

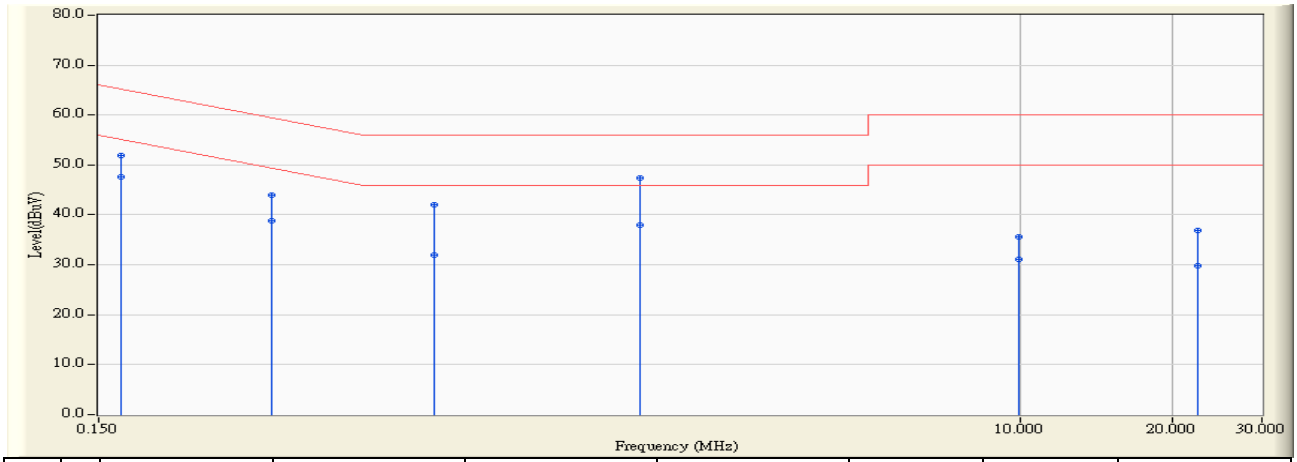


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	9.707	41.470	51.177	-14.823	66.000	QUASIPEAK
2		0.150	9.707	29.580	39.287	-16.713	56.000	AVERAGE
3		0.252	9.700	36.080	45.781	-15.925	61.705	QUASIPEAK
4		0.252	9.700	28.170	37.871	-13.835	51.705	AVERAGE
5		0.845	9.810	31.800	41.610	-14.390	56.000	QUASIPEAK
6		0.845	9.810	22.400	32.210	-13.790	46.000	AVERAGE
7		1.775	9.826	35.940	45.766	-10.234	56.000	QUASIPEAK
8	*	1.775	9.826	28.390	38.216	-7.784	46.000	AVERAGE
9		9.910	10.105	24.390	34.495	-25.505	60.000	QUASIPEAK
10		9.910	10.105	19.770	29.875	-20.125	50.000	AVERAGE
11		22.373	10.519	25.690	36.209	-23.791	60.000	QUASIPEAK
12		22.373	10.519	18.490	29.009	-20.991	50.000	AVERAGE

Note:

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

Site : SR2	**Time : 2009/04/13 - 13:46**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-LISN(16A) - Line1	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 2: Transmit (Adapter: OEM)-40M**

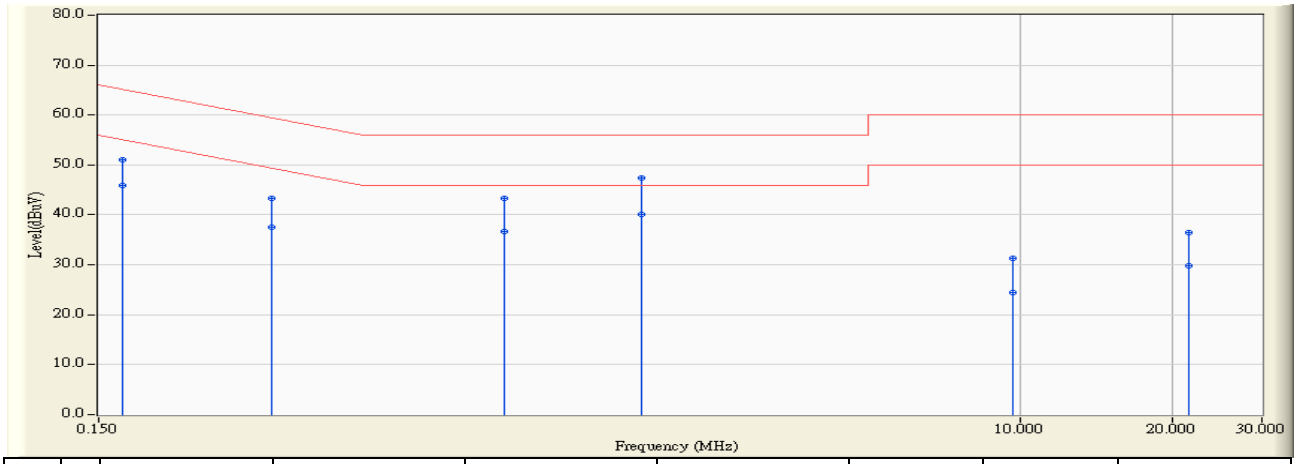


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.166	9.653	42.310	51.963	-13.199	65.161	QUASIPEAK
2	*	0.166	9.653	37.940	47.593	-7.569	55.161	AVERAGE
3		0.329	9.728	34.160	43.888	-15.579	59.467	QUASIPEAK
4		0.329	9.728	29.060	38.788	-10.679	49.467	AVERAGE
5		0.693	9.820	32.300	42.120	-13.880	56.000	QUASIPEAK
6		0.693	9.820	22.070	31.890	-14.110	46.000	AVERAGE
7		1.763	9.812	37.640	47.452	-8.548	56.000	QUASIPEAK
8		1.763	9.812	28.060	37.872	-8.128	46.000	AVERAGE
9		9.909	10.104	25.530	35.635	-24.365	60.000	QUASIPEAK
10		9.909	10.104	21.090	31.195	-18.805	50.000	AVERAGE
11		22.470	10.358	26.570	36.928	-23.072	60.000	QUASIPEAK
12		22.470	10.358	19.420	29.778	-20.222	50.000	AVERAGE

Note:

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

Site : SR2	**Time : 2009/04/13 - 13:51**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2-LISN(16A) - Line2	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 2: Transmit (Adapter: OEM)-40M**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.167	9.713	41.280	50.994	-14.115	65.108	QUASIPEAK
2		0.167	9.713	36.190	45.904	-19.205	65.108	AVERAGE
3		0.330	9.735	33.520	43.255	-16.196	59.451	QUASIPEAK
4		0.330	9.735	27.760	37.495	-21.956	59.451	AVERAGE
5		0.952	9.810	33.420	43.230	-12.770	56.000	QUASIPEAK
6		0.952	9.810	26.950	36.760	-19.240	56.000	AVERAGE
7	*	1.775	9.826	37.620	47.446	-8.554	56.000	QUASIPEAK
8	*	1.775	9.826	30.310	40.136	-15.864	56.000	AVERAGE
9		9.670	10.094	21.200	31.293	-28.707	60.000	QUASIPEAK
10		9.670	10.094	14.400	24.493	-35.507	60.000	AVERAGE
11		21.509	10.505	25.960	36.465	-23.535	60.000	QUASIPEAK
12		21.509	10.505	19.260	29.765	-30.235	60.000	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

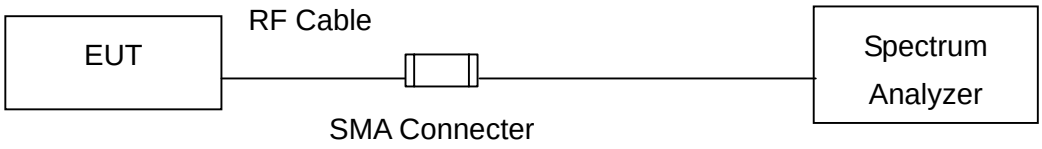
The following test equipments are used during the test:

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

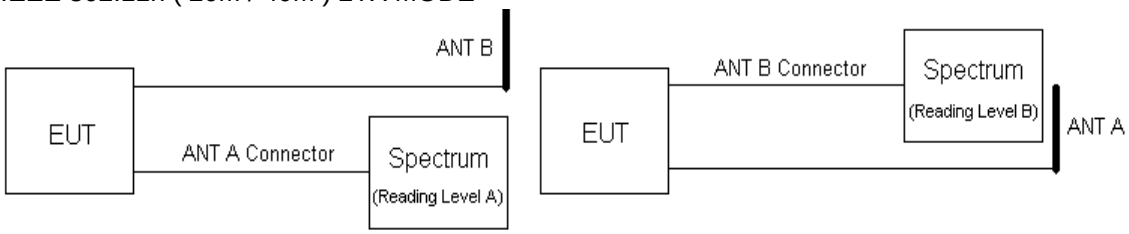
Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

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	Wireless N Router with All-in-One Printer Server		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2009/04/17	Test Site	No.1 OATS

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	22.00	1Watt= 30 dBm	Pass
6	2437	22.18	1Watt= 30 dBm	Pass
11	2462	21.98	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	--	--	--	22.00	1Watt= 30 dBm
6	2437.00	21.93	22.03	21.84	22.18	1Watt= 30 dBm
11	2462.00	--	--	--	21.98	1Watt= 30 dBm

Note: Measure Level =Reading value + cable loss

Product	Wireless N Router with All-in-One Printer Server		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2009/04/17	Test Site	No.1 OATS

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	25.56	1Watt= 30 dBm	Pass
6	2437	25.56	1Watt= 30 dBm	Pass
11	2462	25.28	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	--	--	--	--	--	--	--	25.56	1Watt= 30 dBm
6	2437.00	25.32	24.80	24.98	24.36	25.06	24.80	24.30	25.56	1Watt= 30 dBm
11	2462.00	--	--	--	--	--	--	--	25.28	1Watt= 30 dBm

Note: Measure Level =Reading value + cable loss

Product	Wireless N Router with All-in-One Printer Server		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2009/04/17	Test Site	No.1 OATS

IEEE 802.11n 20MHz_2TX

The worst emission of data rate is 144.44Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		7.2	14.4	21.7	28.9	43.3	57.8	65	72.2	
1	2412	--	--	--	--	--	--	--	--	30dBm
6	2437	26.15	26.41	26.58	26.43	26.55	26.74	26.81	26.32	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								
		14.44	28.89	43.33	57.78	86.67	115.56	130	144.44	
1	2412	--	--	--	--	--	--	--	26.96	30dBm
6	2437	26.62	26.22	26.64	26.71	26.95	26.64	27.00	27.05	30dBm
11	2462	--	--	--	--	--	--	--	26.73	30dBm

Product	Wireless N Router with All-in-One Printer Server		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2009/04/17	Test Site	No.1 OATS

IEEE 802.11n MCS15 20MHz_2TX ; ANT A

Channel No.	Frequency (MHz)	Measure Level		Limit (dBm)	Result
		(dBm)	(mW)		
1	2412	23.97	249.46	1Watt= 30 dBm	Pass
6	2437	24.17	261.22	1Watt= 30 dBm	Pass
11	2462	23.84	242.10	1Watt= 30 dBm	Pass

IEEE 802.11n MCS15 20MHz_2TX ; ANT B

Channel No.	Frequency (MHz)	Measure Level		Limit (dBm)	Result
		(dBm)	(mW)		
1	2412	23.92	246.60	1Watt= 30 dBm	Pass
6	2437	23.90	245.47	1Watt= 30 dBm	Pass
11	2462	23.60	229.09	1Watt= 30 dBm	Pass

IEEE802.11n MCS15 20MHz_2TX ; ANT A + ANT B ; Note 1 & Note 2

Channel No.	Frequency (MHz)	Measure Level		Limit (dBm)	Result
		(dBm)	(mW)		
1	2412	26.96	496.06	1Watt= 30 dBm	Pass
6	2437	27.05	506.69	1Watt= 30 dBm	Pass
11	2462	26.73	471.19	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	Wireless N Router with All-in-One Printer Server		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2009/04/17	Test Site	No.1 OATS

IEEE802.11n 40MHz_2TX

The worst emission of data rate is 300Mbps

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		15	30	45	60	90	120	135	150	
1	2412	--	--	--	--	--	--	--	--	30dBm
6	2437	26.42	26.58	26.29	26.44	26.72	26.19	26.46	26.64	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								
		30	60	90	120	180	240	270	300	
1	2412	--	--	--	--	--	--	--	26.79	30dBm
6	2437	26.55	26.26	26.67	26.91	26.94	26.65	26.76	27.01	30dBm
11	2462	--	--	--	--	--	--	--	26.79	30dBm

Product	Wireless N Router with All-in-One Printer Server		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2009/04/17	Test Site	No.1 OATS

IEEE802.11n ;MCS15 40MHz_2TX ; ANT A					
Channel No.	Frequency (MHz)	Measure Level		Limit (dBm)	Result
		(dBm)	(mW)		
3	2422	23.69	233.88	1Watt= 30 dBm	Pass
6	2437	24.13	258.82	1Watt= 30 dBm	Pass
9	2452	23.88	244.34	1Watt= 30 dBm	Pass

IEEE802.11n ;MCS15 40MHz_2TX ; ANT B					
Channel No.	Frequency (MHz)	Measure Level		Limit (dBm)	Result
		(dBm)	(mW)		
3	2422	23.87	243.78	1Watt= 30 dBm	Pass
6	2437	23.87	243.78	1Watt= 30 dBm	Pass
9	2452	23.67	232.81	1Watt= 30 dBm	Pass

IEEE802.11n ;MCS15 40MHz_2TX ; ANT A+ ANT B ; Note 1 & Note 2					
Channel No.	Frequency (MHz)	Measure Level		Limit (dBm)	Result
		(dBm)	(mW)		
3	2422	26.79	477.66	1Watt= 30 dBm	Pass
6	2437	27.01	502.60	1Watt= 30 dBm	Pass
9	2452	26.79	477.15	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 / Site2

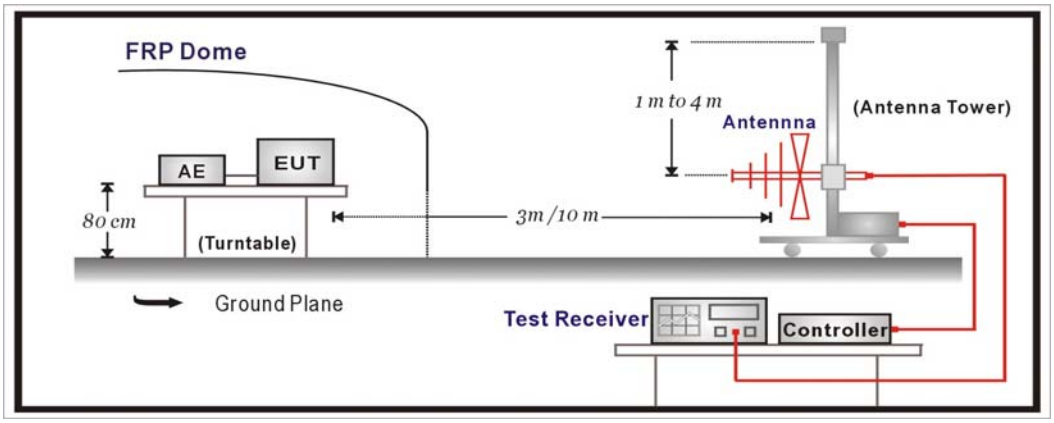
Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Bilog Antenna	Schaffner Chase	CBL6112B	2708	2008/09/03
Horn Antenna	Electro Metrics	EM-6961	103325	2009/03/15
Pre-Amplifier	HP	8449B	3008A01123	2008/11/15
Pre-Amplifier	QuieTek	AP-025C	002	N/A
Spectrum Analyzer	R & S	FSP40	100005	2008/08/25
Spectrum Analyzer	Advantest	R3162	121200166	2009/02/19
Test Receiver	R & S	ESCS 30	836858/023	2008/04/01

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

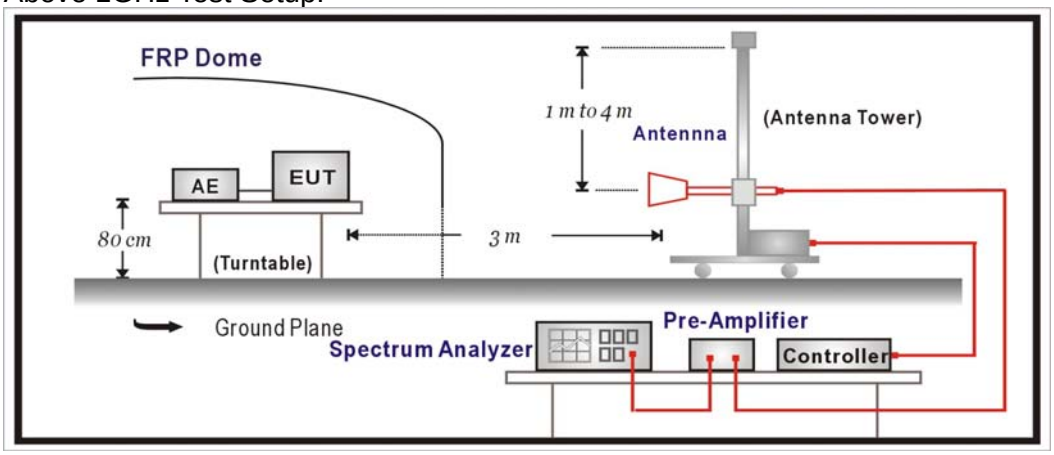
2. Last Cal showing “N/A” means it is used to Pre-test, not for final test.

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.

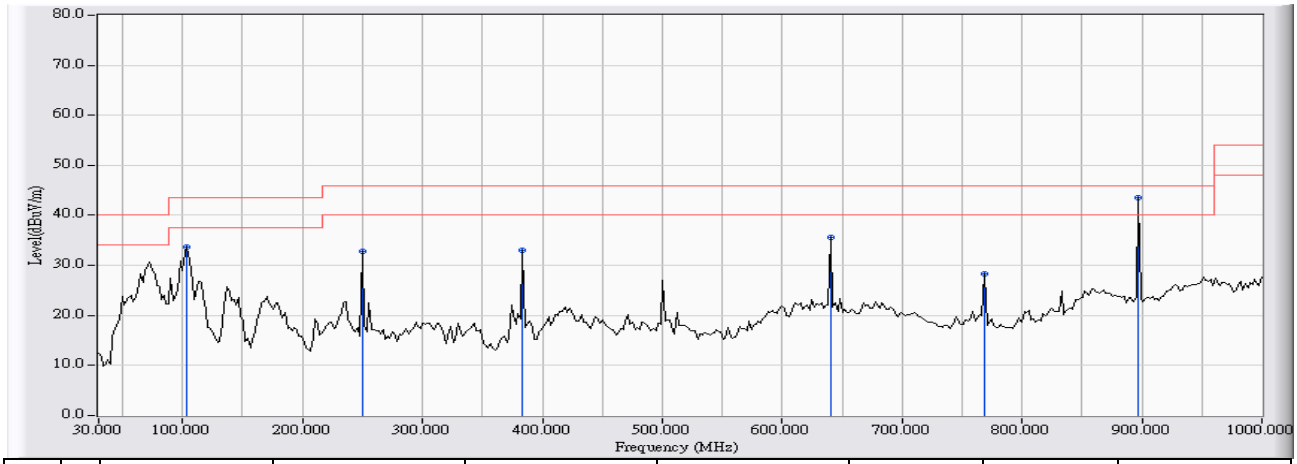
4.5. Uncertainty

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

4.6. Test Result

30MHz-1GHz Spurious

Site : Site2	**Time : 2009/04/11 - 11:42**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : Site2_FCC_30-1G(2008-9) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 1: Transmit (Adapter: PI Electronics)-B (T)**

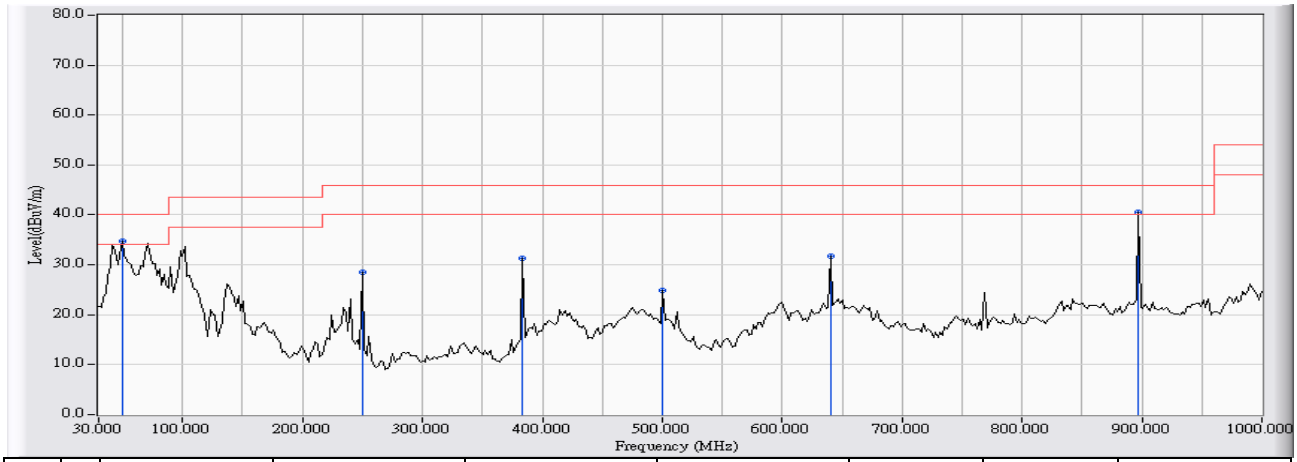


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		103.868	-14.630	48.337	33.706	-9.794	43.500	QUASIPEAK
2		249.659	-12.789	45.548	32.759	-13.241	46.000	QUASIPEAK
3		383.788	-9.676	42.802	33.126	-12.874	46.000	QUASIPEAK
4		640.381	-2.141	37.641	35.500	-10.500	46.000	QUASIPEAK
5		768.677	-5.579	33.848	28.269	-17.731	46.000	QUASIPEAK
6	*	896.974	-1.294	44.743	43.449	-2.551	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 : Site2	**Time : 2009/04/11 - 11:45**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : Site2_FCC_30-1G(2008-9) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 1: Transmit (Adapter: PI Electronics)-B (T)**

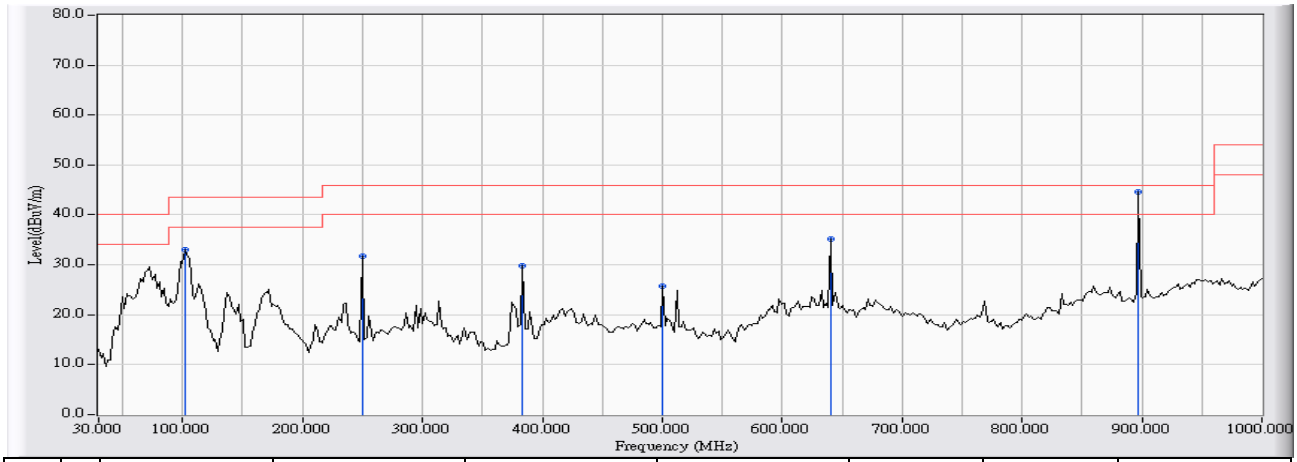


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	49.439	-13.258	47.932	34.674	-5.326	40.000	QUASIPEAK
2		249.659	-13.539	42.006	28.466	-17.534	46.000	QUASIPEAK
3		383.788	-9.137	40.362	31.225	-14.775	46.000	QUASIPEAK
4		500.421	-6.120	31.013	24.894	-21.106	46.000	QUASIPEAK
5		640.381	-2.769	34.409	31.640	-14.360	46.000	QUASIPEAK
6		896.974	-3.038	43.500	40.462	-5.538	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 : Site2	**Time : 2009/04/11 - 11:59**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : Site2_FCC_30-1G(2008-9) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 1: Transmit (Adapter: PI Electronics)-G (T)**

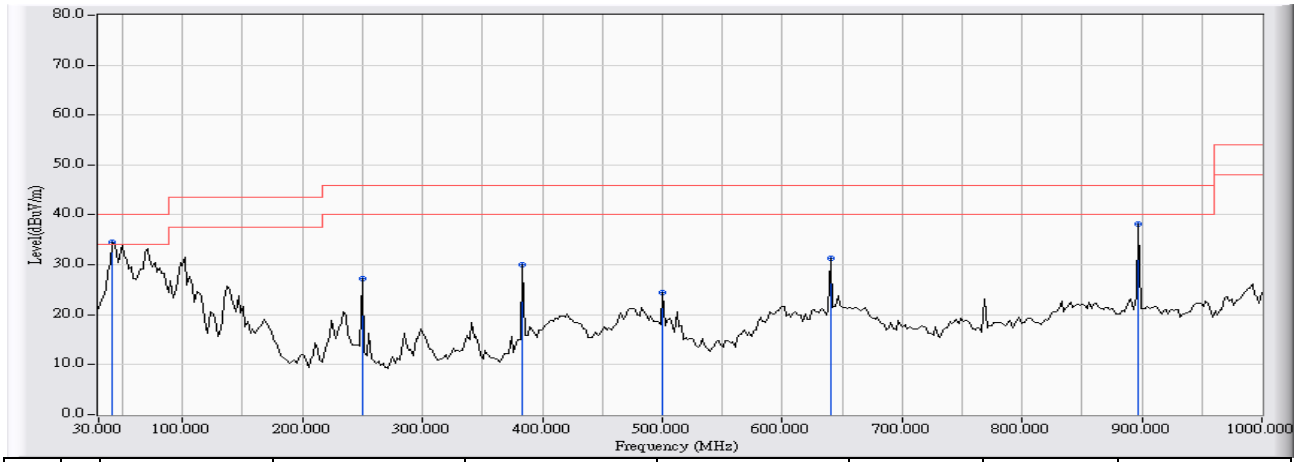


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		101.924	-14.138	47.139	33.001	-10.499	43.500	QUASIPEAK
2		249.659	-12.789	44.592	31.803	-14.197	46.000	QUASIPEAK
3		383.788	-9.676	39.526	29.850	-16.150	46.000	QUASIPEAK
4		500.421	-6.803	32.488	25.685	-20.315	46.000	QUASIPEAK
5		640.381	-2.141	37.348	35.207	-10.793	46.000	QUASIPEAK
6	*	896.974	-1.294	45.987	44.693	-1.307	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 : Site2	**Time : 2009/04/11 - 12:02**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : Site2_FCC_30-1G(2008-9) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 1: Transmit (Adapter: PI Electronics)-G (T)**

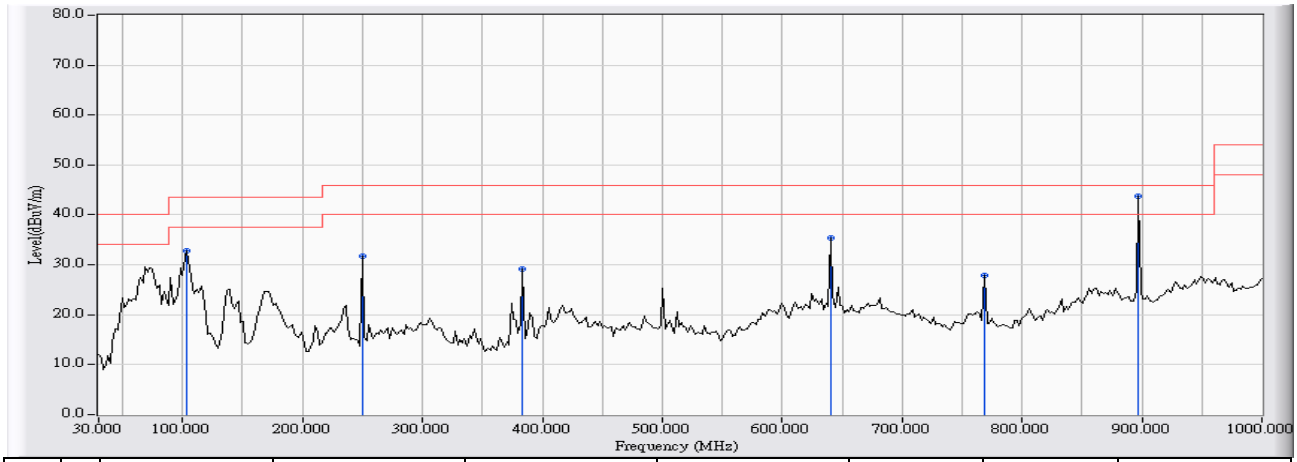


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	41.663	-9.621	44.106	34.485	-5.515	40.000	QUASIPEAK
2		249.659	-13.539	40.672	27.132	-18.868	46.000	QUASIPEAK
3		383.788	-9.137	39.154	30.017	-15.983	46.000	QUASIPEAK
4		500.421	-6.120	30.551	24.432	-21.568	46.000	QUASIPEAK
5		640.381	-2.769	34.080	31.311	-14.689	46.000	QUASIPEAK
6		896.974	-3.038	41.220	38.182	-7.818	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 : Site2	**Time : 2009/04/11 - 12:23**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : Site2_FCC_30-1G(2008-9) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 1: Transmit (Adapter: PI Electronics)-20M (T)**

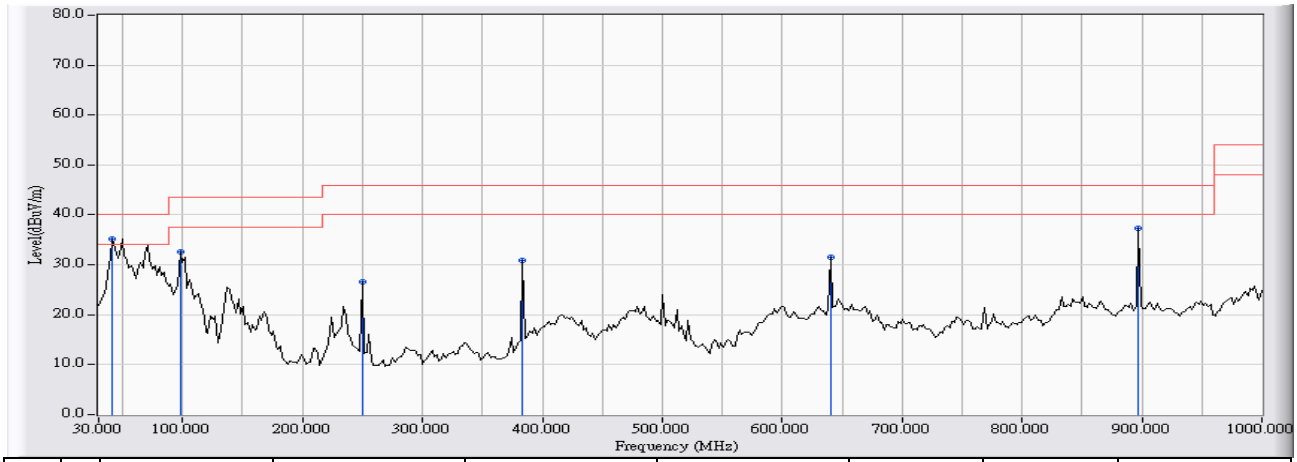


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		103.868	-14.630	47.377	32.746	-10.754	43.500	QUASIPEAK
2		249.659	-12.789	44.586	31.797	-14.203	46.000	QUASIPEAK
3		383.788	-9.676	38.928	29.252	-16.748	46.000	QUASIPEAK
4		640.381	-2.141	37.535	35.394	-10.606	46.000	QUASIPEAK
5		768.677	-5.579	33.356	27.777	-18.223	46.000	QUASIPEAK
6	*	896.974	-1.294	45.038	43.744	-2.256	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 : Site2	**Time : 2009/04/11 - 12:26**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : Site2_FCC_30-1G(2008-9) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 1: Transmit (Adapter: PI Electronics)-20M (T)**

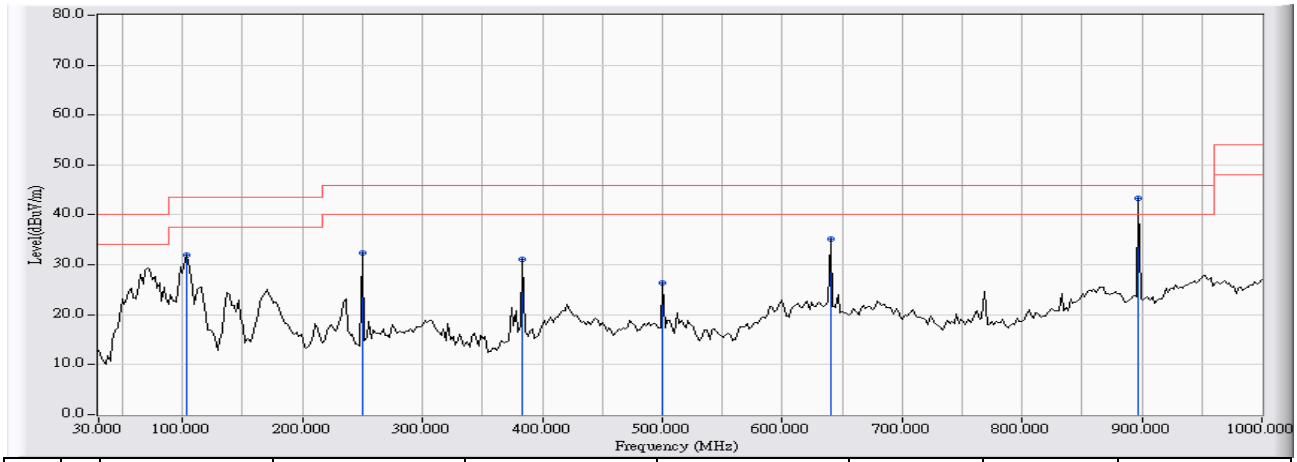


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	41.663	-9.621	44.737	35.116	-4.884	40.000	QUASIPEAK
2		98.036	-11.591	44.159	32.568	-10.932	43.500	QUASIPEAK
3		249.659	-13.539	40.163	26.623	-19.377	46.000	QUASIPEAK
4		383.788	-9.137	40.000	30.863	-15.137	46.000	QUASIPEAK
5		640.381	-2.769	34.379	31.610	-14.390	46.000	QUASIPEAK
6		896.974	-3.038	40.423	37.385	-8.615	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 : Site2	**Time : 2009/04/11 - 12:33**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : Site2_FCC_30-1G(2008-9) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 1: Transmit (Adapter: PI Electronics)-40M (T)**

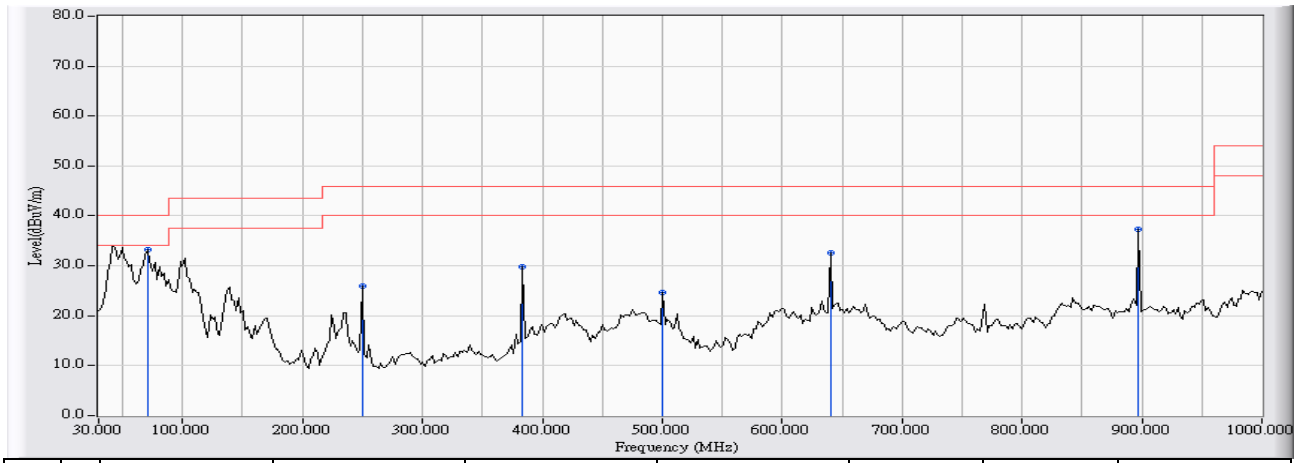


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		103.868	-14.630	46.645	32.014	-11.486	43.500	QUASIPEAK
2		249.659	-12.789	45.123	32.334	-13.666	46.000	QUASIPEAK
3		383.788	-9.676	40.826	31.150	-14.850	46.000	QUASIPEAK
4		500.421	-6.803	33.206	26.403	-19.597	46.000	QUASIPEAK
5		640.381	-2.141	37.346	35.205	-10.795	46.000	QUASIPEAK
6	*	896.974	-1.294	44.584	43.290	-2.710	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 : Site2	**Time : 2009/04/11 - 12:37**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : Site2_FCC_30-1G(2008-9) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 1: Transmit (Adapter: PI Electronics)-40M (T)**

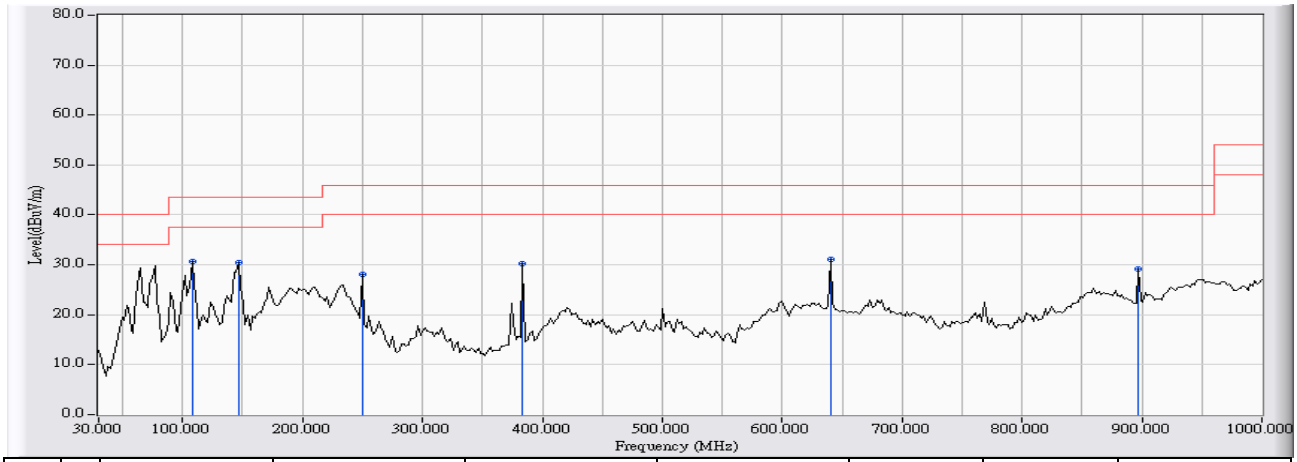


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	70.822	-14.732	48.025	33.293	-6.707	40.000	QUASIPEAK
2		249.659	-13.539	39.490	25.950	-20.050	46.000	QUASIPEAK
3		383.788	-9.137	38.971	29.834	-16.166	46.000	QUASIPEAK
4		500.421	-6.120	30.819	24.700	-21.300	46.000	QUASIPEAK
5		640.381	-2.769	35.463	32.694	-13.306	46.000	QUASIPEAK
6		896.974	-3.038	40.429	37.391	-8.609	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 : Site2	**Time : 2009/04/11 - 15:06**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : Site2_FCC_30-1G(2008-9) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 2: Transmit (Adapter: OEM)-B (T)**

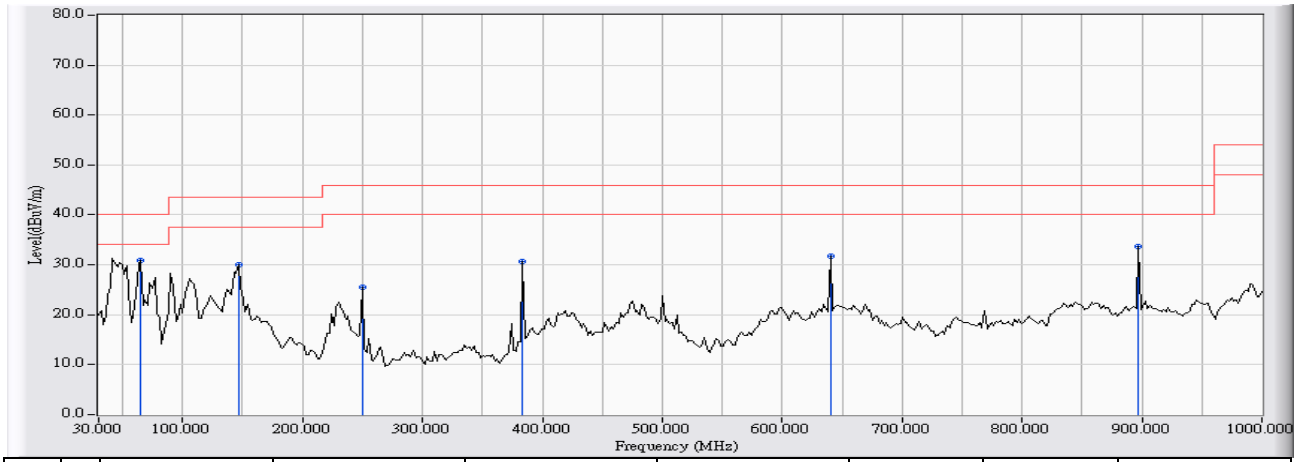


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	107.756	-14.949	45.570	30.621	-12.879	43.500	QUASIPEAK
2		146.633	-18.128	48.660	30.531	-12.969	43.500	QUASIPEAK
3		249.659	-12.789	40.948	28.159	-17.841	46.000	QUASIPEAK
4		383.788	-9.676	39.829	30.153	-15.847	46.000	QUASIPEAK
5		640.381	-2.141	33.313	31.172	-14.828	46.000	QUASIPEAK
6		896.974	-1.294	30.476	29.182	-16.818	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 : Site2	**Time : 2009/04/11 - 15:09**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : Site2_FCC_30-1G(2008-9) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 2: Transmit (Adapter: OEM)-B (T)**

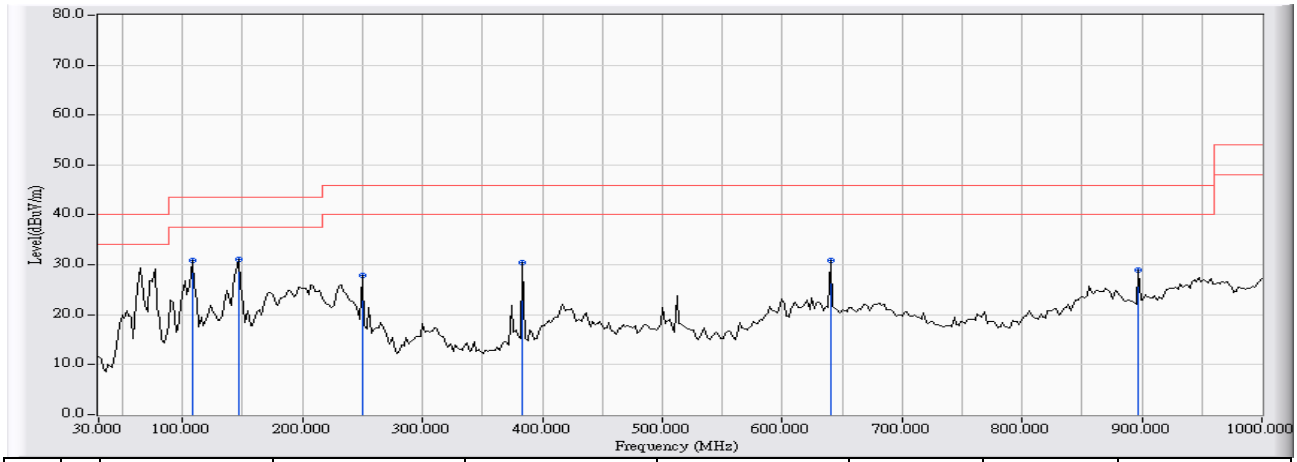


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	64.990	-15.573	46.380	30.807	-9.193	40.000	QUASIPEAK
2		146.633	-13.567	43.586	30.018	-13.482	43.500	QUASIPEAK
3		249.659	-13.539	39.030	25.490	-20.510	46.000	QUASIPEAK
4		383.788	-9.137	39.829	30.692	-15.308	46.000	QUASIPEAK
5		640.381	-2.769	34.523	31.754	-14.246	46.000	QUASIPEAK
6		896.974	-3.038	36.787	33.749	-12.251	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 : Site2	**Time : 2009/04/11 - 15:19**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : Site2_FCC_30-1G(2008-9) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 2: Transmit (Adapter: OEM)-G (T)**

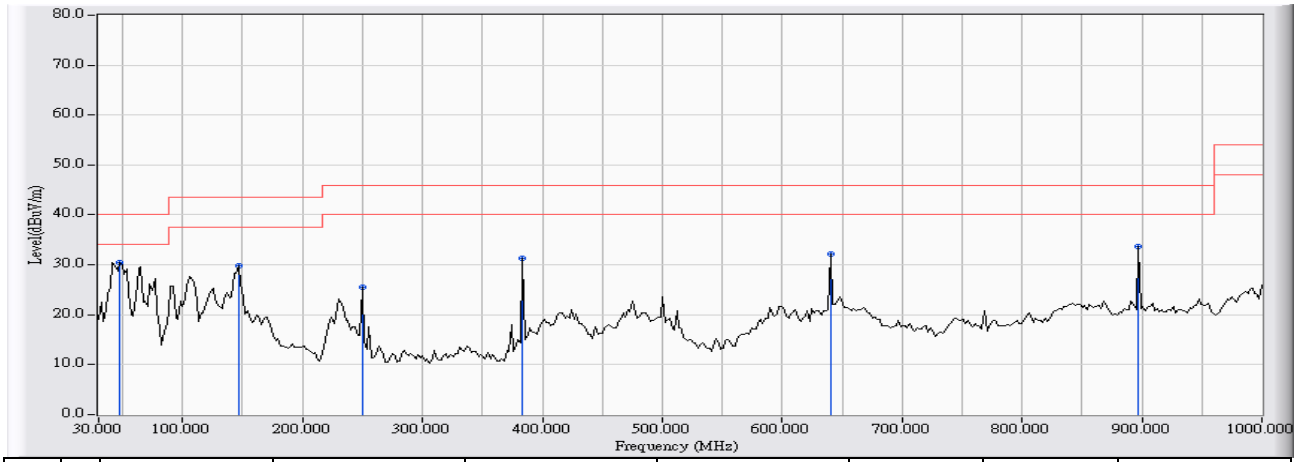


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		107.756	-14.949	45.880	30.931	-12.569	43.500	QUASIPEAK
2	*	146.633	-18.128	49.185	31.056	-12.444	43.500	QUASIPEAK
3		249.659	-12.789	40.691	27.902	-18.098	46.000	QUASIPEAK
4		383.788	-9.676	40.093	30.417	-15.583	46.000	QUASIPEAK
5		640.381	-2.141	32.943	30.802	-15.198	46.000	QUASIPEAK
6		896.974	-1.294	30.244	28.950	-17.050	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 : Site2	**Time : 2009/04/11 - 15:22**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : Site2_FCC_30-1G(2008-9) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 2: Transmit (Adapter: OEM)-G (T)**

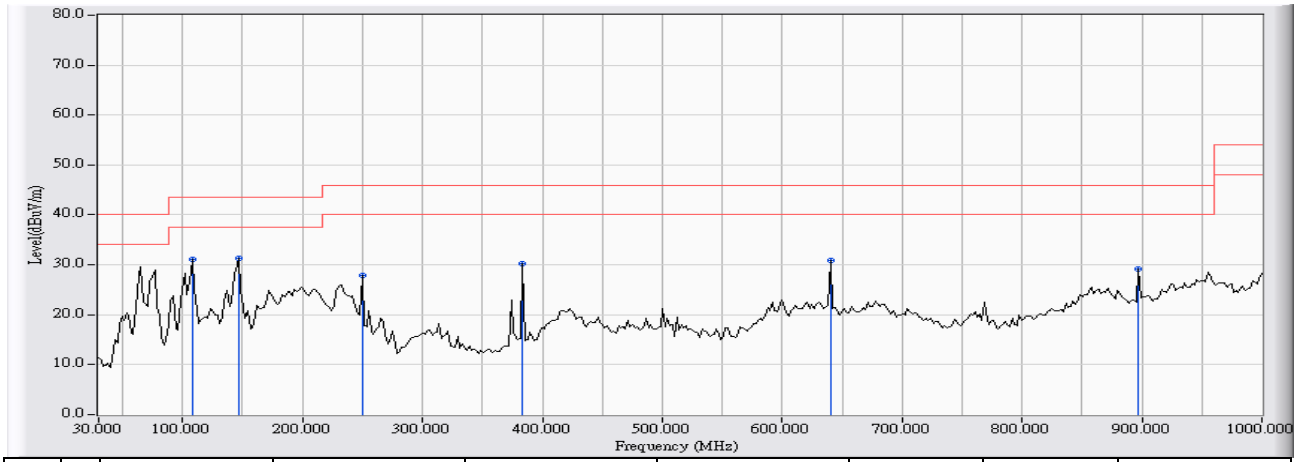


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	47.495	-13.153	43.617	30.463	-9.537	40.000	QUASIPEAK
2		146.633	-13.567	43.342	29.774	-13.726	43.500	QUASIPEAK
3		249.659	-13.539	38.988	25.448	-20.552	46.000	QUASIPEAK
4		383.788	-9.137	40.419	31.282	-14.718	46.000	QUASIPEAK
5		640.381	-2.769	34.993	32.224	-13.776	46.000	QUASIPEAK
6		896.974	-3.038	36.758	33.720	-12.280	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 : Site2	**Time : 2009/04/11 - 15:29**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : Site2_FCC_30-1G(2008-9) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 2: Transmit (Adapter: OEM)-20M (T)**

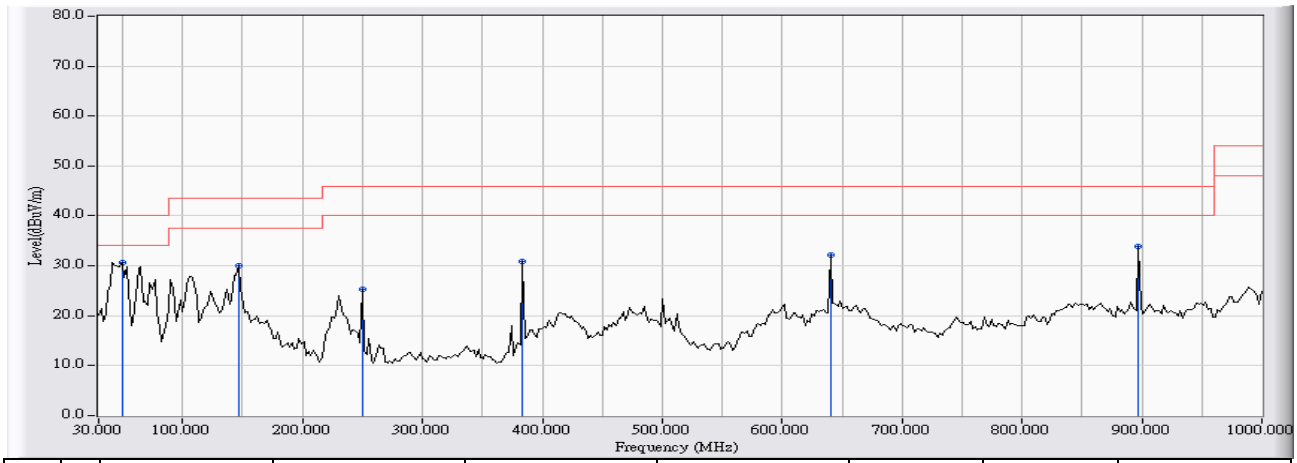


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		107.756	-14.949	45.947	30.998	-12.502	43.500	QUASIPEAK
2	*	146.633	-18.128	49.393	31.264	-12.236	43.500	QUASIPEAK
3		249.659	-12.789	40.754	27.965	-18.035	46.000	QUASIPEAK
4		383.788	-9.676	39.864	30.188	-15.812	46.000	QUASIPEAK
5		640.381	-2.141	33.073	30.932	-15.068	46.000	QUASIPEAK
6		896.974	-1.294	30.505	29.211	-16.789	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 : Site2	**Time : 2009/04/11 - 15:32**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : Site2_FCC_30-1G(2008-9) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 2: Transmit (Adapter: OEM)-20M (T)**

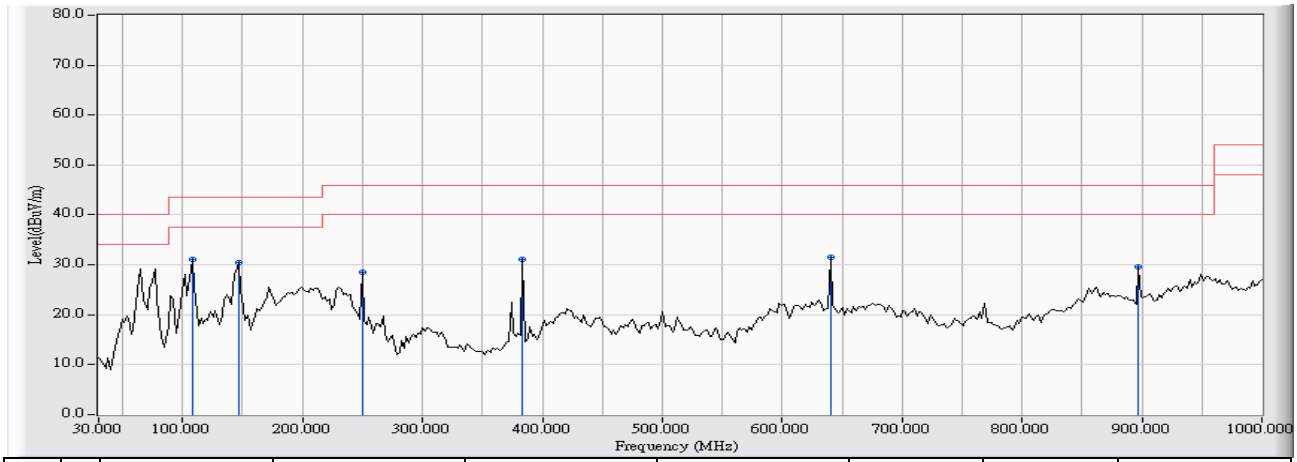


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	49.439	-13.258	44.002	30.744	-9.256	40.000	QUASIPEAK
2		146.633	-13.567	43.692	30.124	-13.376	43.500	QUASIPEAK
3		249.659	-13.539	38.859	25.319	-20.681	46.000	QUASIPEAK
4		383.788	-9.137	39.931	30.794	-15.206	46.000	QUASIPEAK
5		640.381	-2.769	35.009	32.240	-13.760	46.000	QUASIPEAK
6		896.974	-3.038	36.891	33.853	-12.147	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 : Site2	**Time : 2009/04/11 - 15:38**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : Site2_FCC_30-1G(2008-9) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 2: Transmit (Adapter: OEM)-40M (T)**

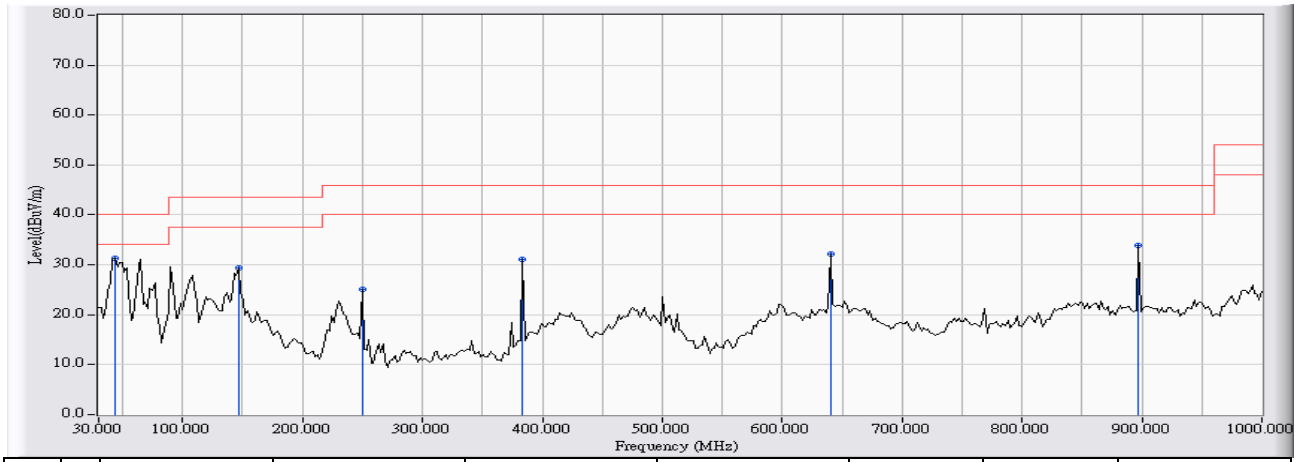


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	107.756	-14.949	46.085	31.136	-12.364	43.500	QUASIPEAK
2		146.633	-18.128	48.638	30.509	-12.991	43.500	QUASIPEAK
3		249.659	-12.789	41.208	28.419	-17.581	46.000	QUASIPEAK
4		383.788	-9.676	40.763	31.087	-14.913	46.000	QUASIPEAK
5		640.381	-2.141	33.722	31.581	-14.419	46.000	QUASIPEAK
6		896.974	-1.294	30.985	29.691	-16.309	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 : Site2	**Time : 2009/04/11 - 15:42**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : Site2_FCC_30-1G(2008-9) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : Mode 2: Transmit (Adapter: OEM)-40M (T)**



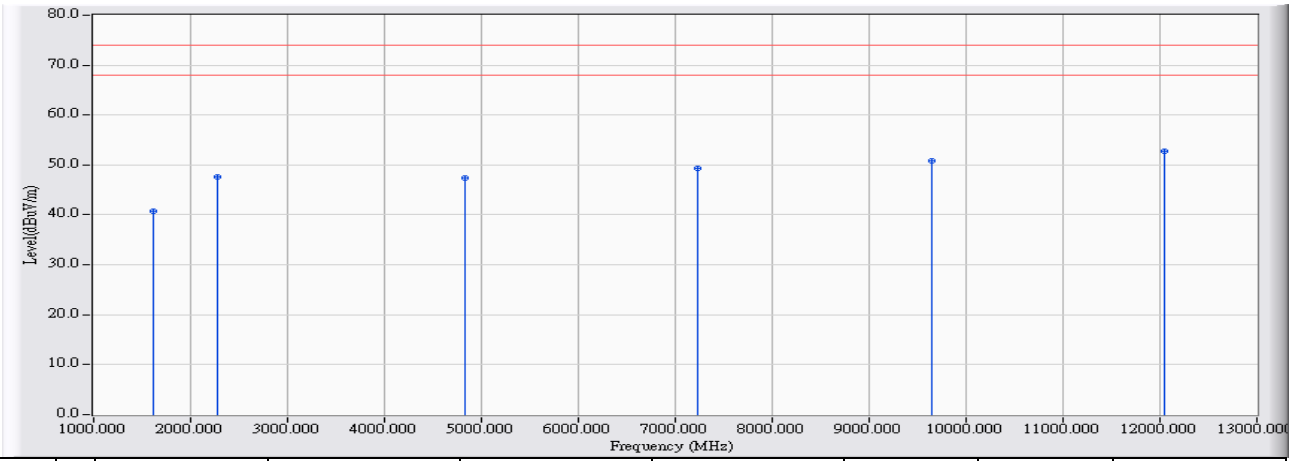
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	43.607	-11.581	42.906	31.325	-8.675	40.000	QUASIPEAK
2		146.633	-13.567	43.025	29.457	-14.043	43.500	QUASIPEAK
3		249.659	-13.539	38.664	25.124	-20.876	46.000	QUASIPEAK
4		383.788	-9.137	40.303	31.166	-14.834	46.000	QUASIPEAK
5		640.381	-2.769	34.993	32.224	-13.776	46.000	QUASIPEAK
6		896.974	-3.038	37.019	33.981	-12.019	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 : Site2	**Time : 2009/04/06 - 10:43**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-B-2412**

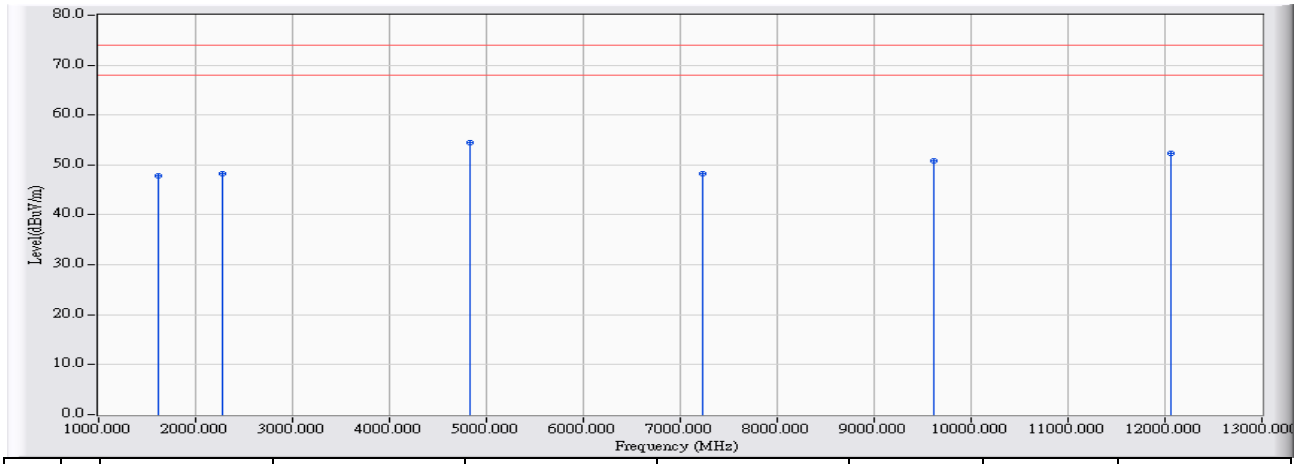


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1608.060	-6.864	47.590	40.727	-33.273	74.000	PEAK
2		2281.600	-3.380	51.010	47.629	-26.371	74.000	PEAK
3		4823.900	3.401	43.950	47.351	-26.649	74.000	PEAK
4		7236.300	9.885	39.430	49.314	-24.686	74.000	PEAK
5		9647.900	13.813	37.070	50.883	-23.117	74.000	PEAK
6	*	12049.600	18.661	34.010	52.670	-21.330	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 : Site2	**Time : 2009/04/06 - 10:57**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-B-2412**

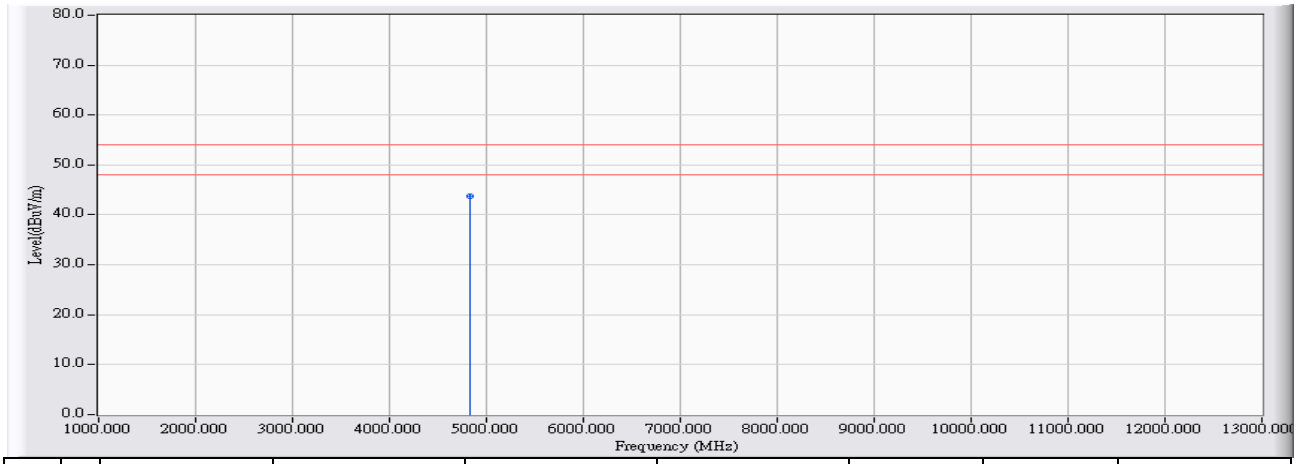


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1608.180	-4.366	52.220	47.853	-26.147	74.000	PEAK
2		2281.400	-6.069	54.270	48.200	-25.800	74.000	PEAK
3	*	4824.100	5.539	48.840	54.379	-19.621	74.000	PEAK
4		7236.350	9.460	38.890	48.349	-25.651	74.000	PEAK
5		9618.120	13.764	37.080	50.844	-23.156	74.000	PEAK
6		12058.800	17.354	34.910	52.265	-21.735	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 : Site2	**Time : 2009/04/06 - 11:05**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-B-2412**

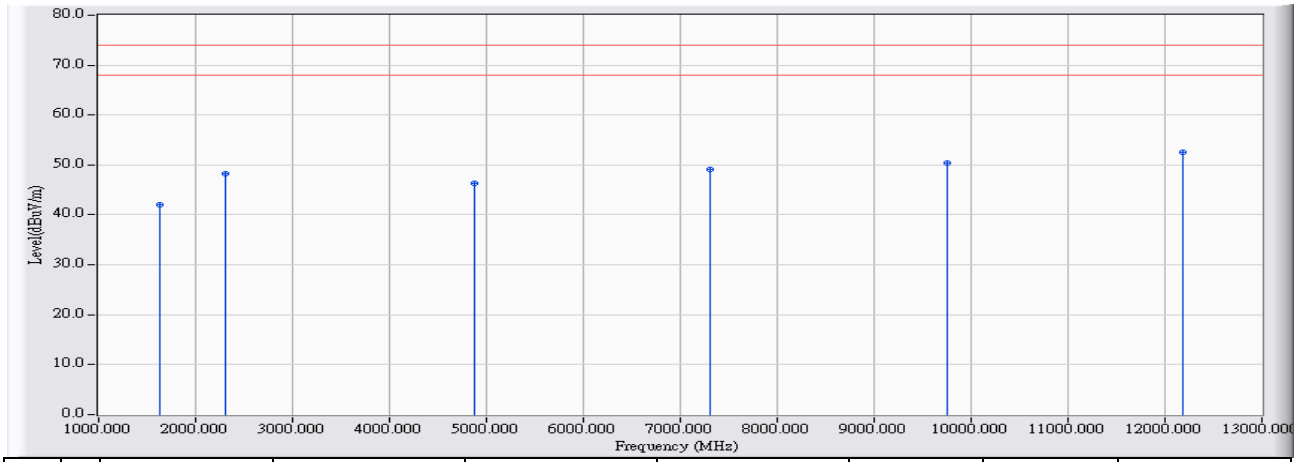


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4825.800	5.541	38.260	43.800	-10.200	54.000	AVERAGE

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 : Site2	**Time : 2009/04/06 - 11:39**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-B-2437**

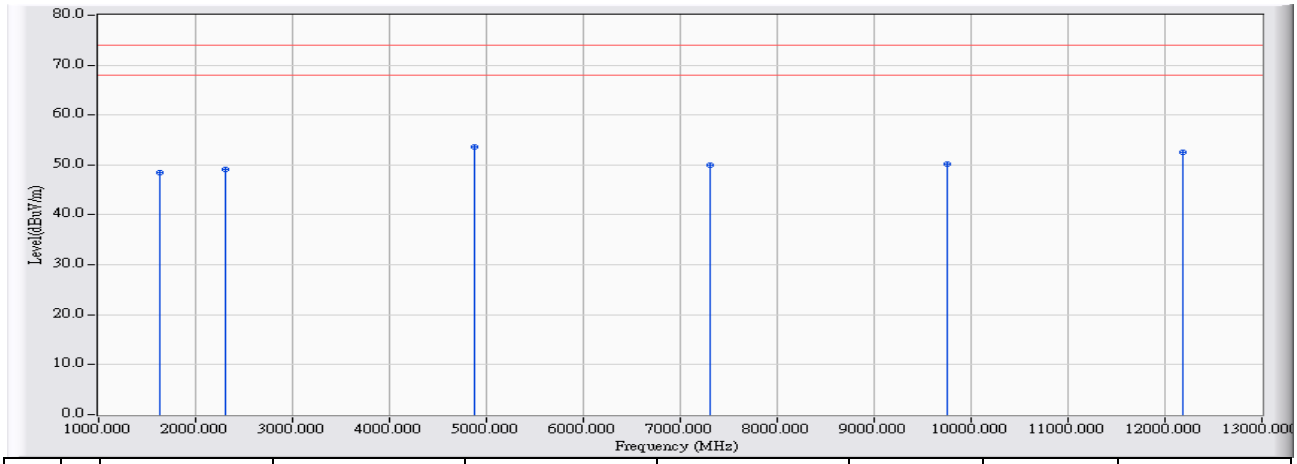


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1624.700	-6.773	48.720	41.947	-32.053	74.000	PEAK
2		2309.000	-3.248	51.440	48.192	-25.808	74.000	PEAK
3		4874.080	3.531	42.800	46.330	-27.670	74.000	PEAK
4		7311.120	10.228	38.960	49.188	-24.812	74.000	PEAK
5		9748.060	14.221	36.210	50.431	-23.569	74.000	PEAK
6	*	12184.800	18.123	34.410	52.532	-21.468	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 : Site2	**Time : 2009/04/06 - 11:51**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-B-2437**

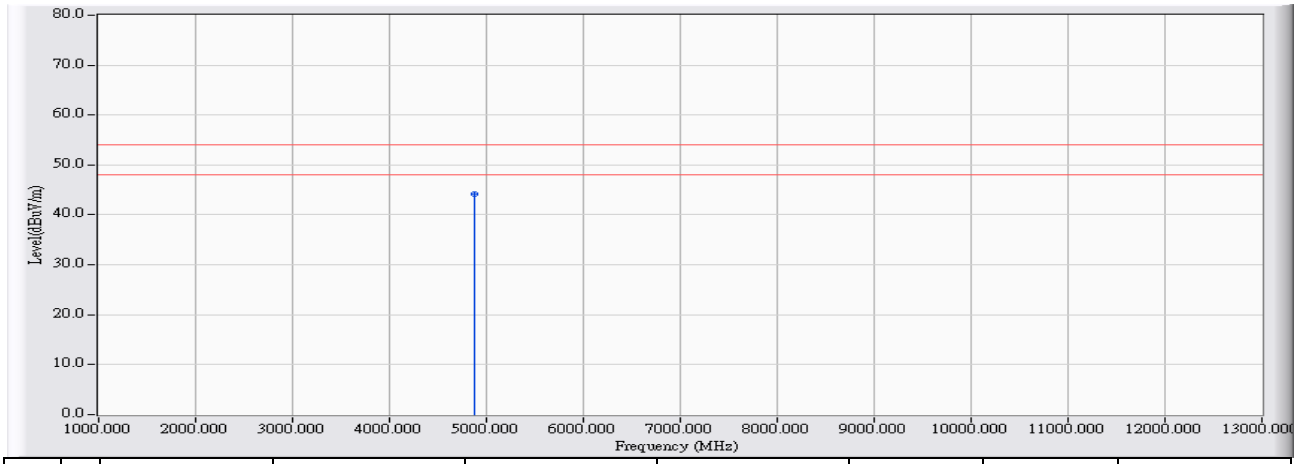


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1624.680	-4.399	52.780	48.382	-25.618	74.000	PEAK
2		2309.200	-6.160	55.330	49.170	-24.830	74.000	PEAK
3	*	4874.300	5.577	48.070	53.647	-20.353	74.000	PEAK
4		7311.060	9.604	40.270	49.874	-24.126	74.000	PEAK
5		9748.100	14.420	35.800	50.220	-23.780	74.000	PEAK
6		12184.800	17.128	35.340	52.467	-21.533	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 : Site2	**Time : 2009/04/06 - 12:00**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-B-2437**

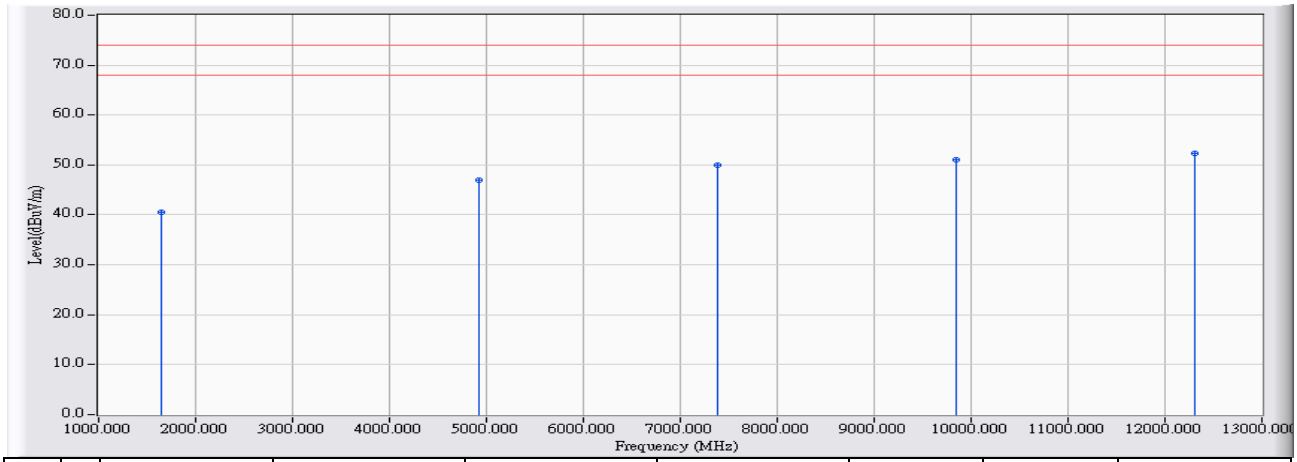


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4875.900	5.579	38.710	44.289	-9.711	54.000	AVERAGE

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 : Site2	**Time : 2009/04/07 - 13:11**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-B-2462**

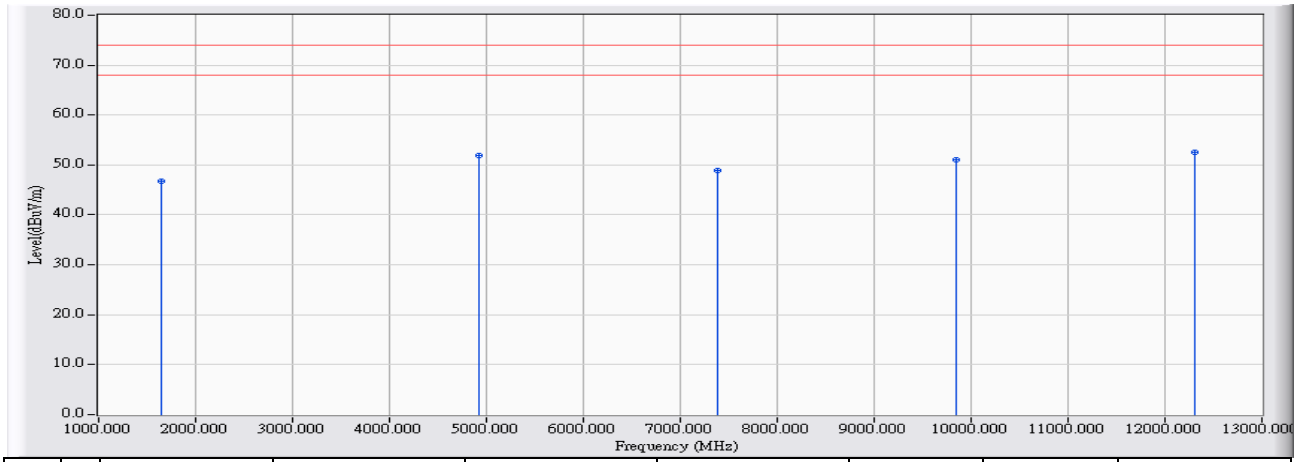


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1641.400	-6.674	47.300	40.625	-33.375	74.000	PEAK
2		4924.000	3.667	43.250	46.918	-27.082	74.000	PEAK
3		7386.300	10.583	39.290	49.873	-24.127	74.000	PEAK
4		9848.300	14.619	36.370	50.989	-23.011	74.000	PEAK
5	*	12310.600	17.631	34.630	52.260	-21.740	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 : Site2	**Time : 2009/04/07 - 13:39**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-B-2462**

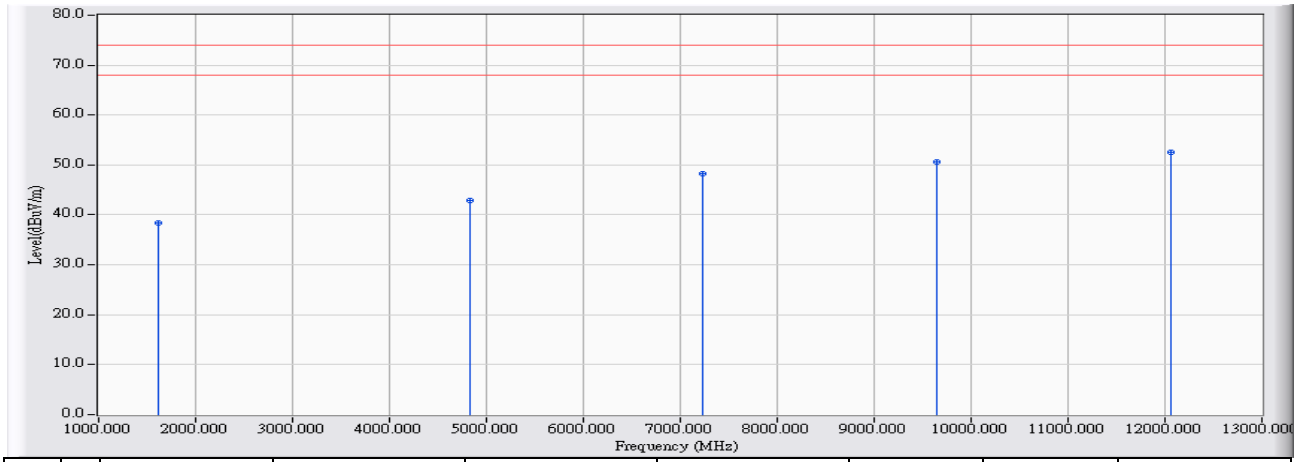


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1641.200	-4.431	51.190	46.760	-27.240	74.000	PEAK
2		4924.160	5.605	46.240	51.845	-22.155	74.000	PEAK
3		7386.300	9.760	39.230	48.990	-25.010	74.000	PEAK
4		9848.300	14.923	36.040	50.963	-23.037	74.000	PEAK
5	*	12310.440	16.891	35.650	52.541	-21.459	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 : Site2	**Time : 2009/04/07 - 14:00**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-G-2412**

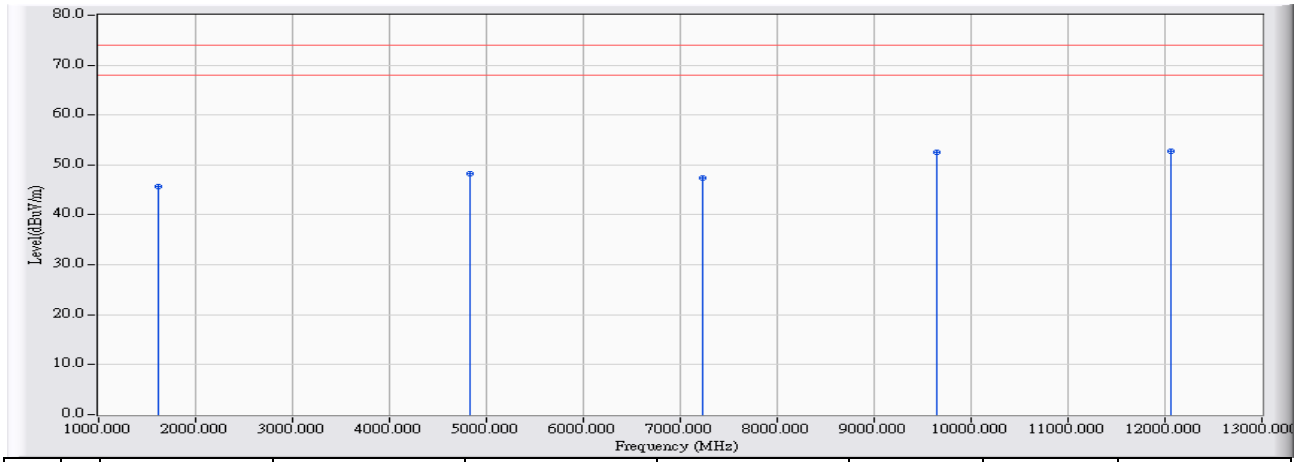


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1608.080	-6.863	45.240	38.377	-35.623	74.000	PEAK
2		4825.600	3.406	39.570	42.976	-31.024	74.000	PEAK
3		7235.900	9.882	38.310	48.192	-25.808	74.000	PEAK
4		9647.500	13.811	36.710	50.521	-23.479	74.000	PEAK
5	*	12058.400	18.626	34.020	52.646	-21.354	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 : Site2	**Time : 2009/04/07 - 14:08**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-G-2412**

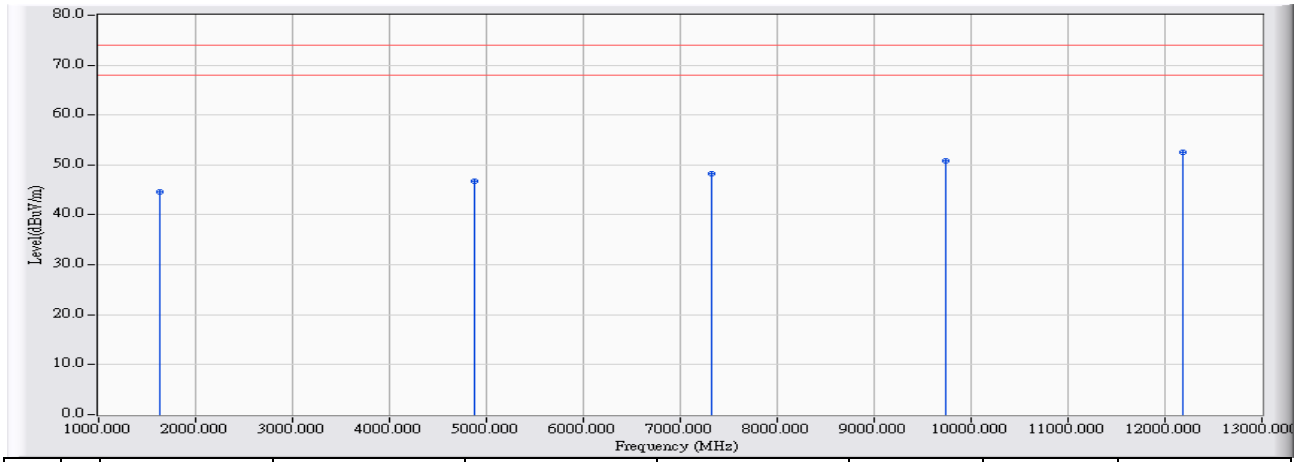


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1608.100	-4.367	49.990	45.623	-28.377	74.000	PEAK
2		4825.600	5.541	42.750	48.290	-25.710	74.000	PEAK
3		7235.900	9.458	37.960	47.418	-26.582	74.000	PEAK
4		9647.500	13.916	38.680	52.596	-21.404	74.000	PEAK
5	*	12058.360	17.356	35.330	52.686	-21.314	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 : Site2	**Time : 2009/04/07 - 14:25**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-G-2437**

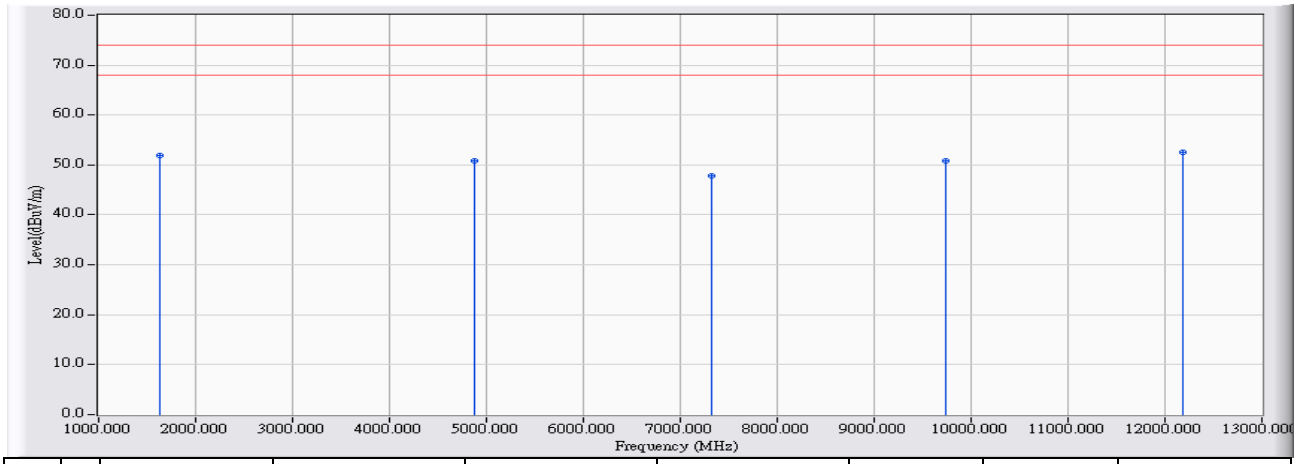


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1624.680	-6.773	51.420	44.647	-29.353	74.000	PEAK
2		4881.900	3.552	43.210	46.762	-27.238	74.000	PEAK
3		7315.600	10.248	37.940	48.188	-25.812	74.000	PEAK
4		9745.300	14.209	36.700	50.909	-23.091	74.000	PEAK
5	*	12187.100	18.113	34.470	52.583	-21.417	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 : Site2	**Time : 2009/04/07 - 14:41**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-G-2437**

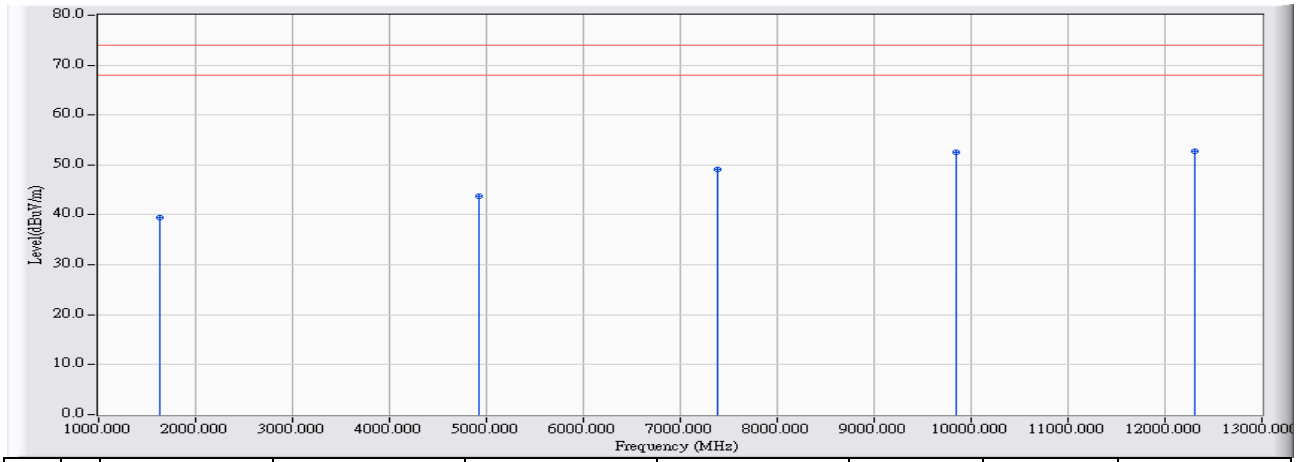


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1624.620	-4.399	56.370	51.972	-22.028	74.000	PEAK
2		4881.640	5.580	45.150	50.731	-23.269	74.000	PEAK
3		7315.420	9.613	38.270	47.883	-26.117	74.000	PEAK
4		9745.420	14.407	36.440	50.847	-23.153	74.000	PEAK
5	*	12186.800	17.123	35.420	52.544	-21.456	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 : Site2	**Time : 2009/04/07 - 15:07**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-G-2462**

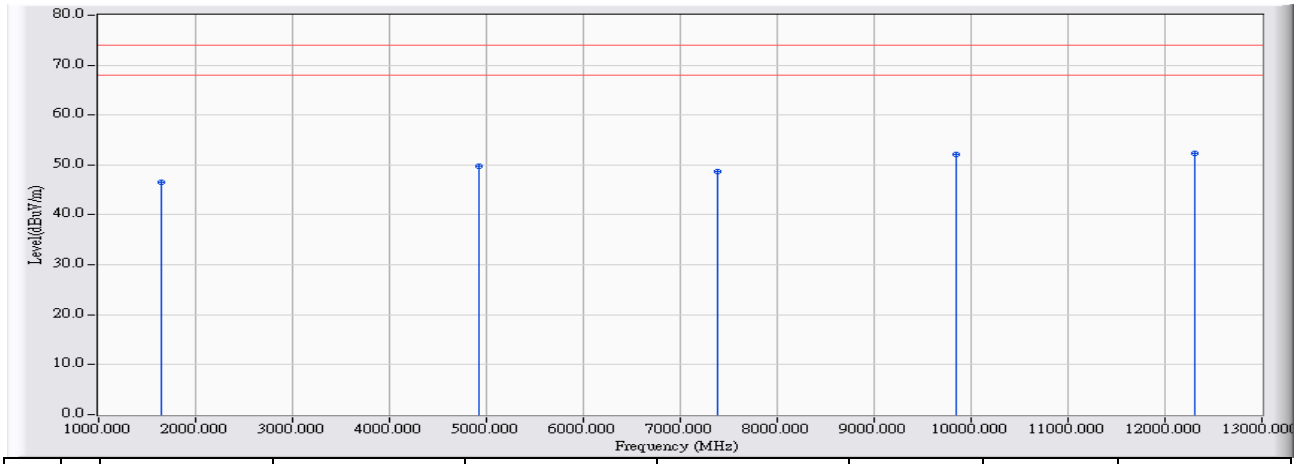


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1624.000	-6.777	46.151	39.374	-34.626	74.000	PEAK
2		4924.600	3.670	40.137	43.806	-30.194	74.000	PEAK
3		7386.500	10.584	38.628	49.212	-24.788	74.000	PEAK
4		9841.300	14.590	37.930	52.520	-21.480	74.000	PEAK
5	*	12308.300	17.639	35.099	52.738	-21.262	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 : Site2	**Time : 2009/04/07 - 15:20**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-G-2462**

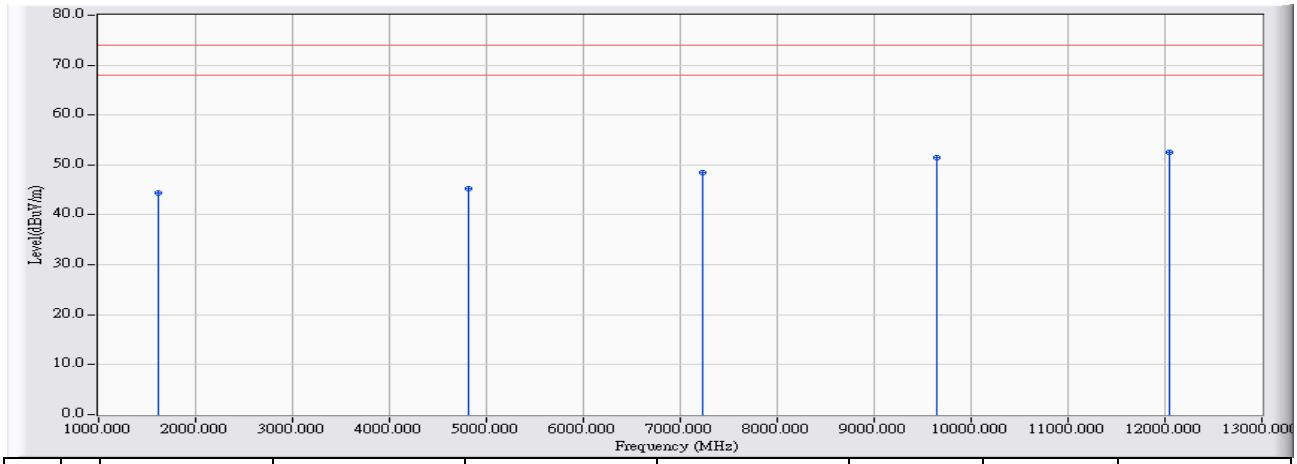


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1641.220	-4.431	50.980	46.550	-27.450	74.000	PEAK
2		4924.480	5.605	44.140	49.745	-24.255	74.000	PEAK
3		7386.360	9.760	38.840	48.600	-25.400	74.000	PEAK
4		9841.300	14.889	37.170	52.059	-21.941	74.000	PEAK
5	*	12308.180	16.896	35.480	52.376	-21.624	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 : Site2	**Time : 2009/04/07 - 15:35**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-20M-2412**

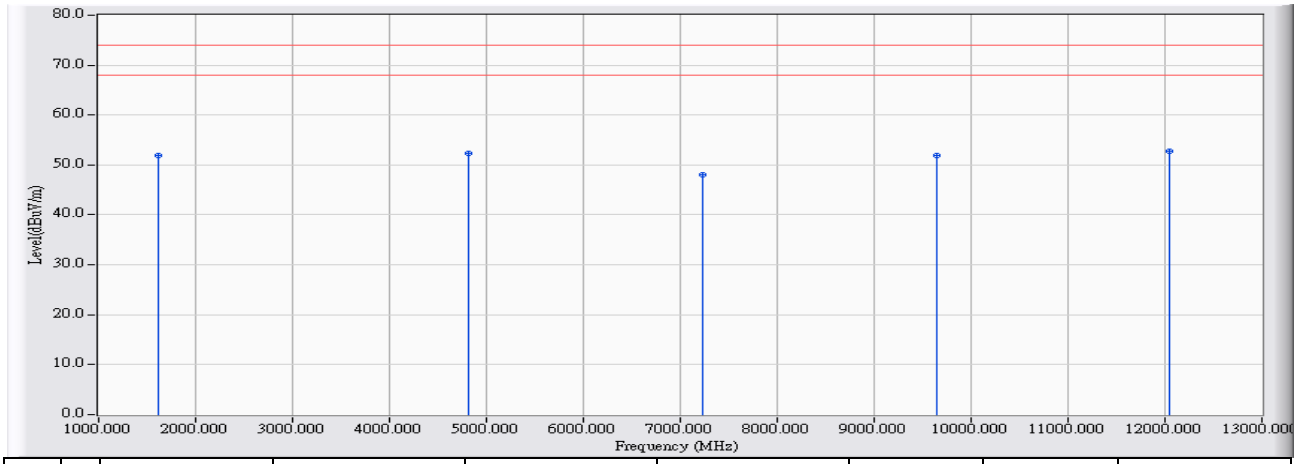


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1608.080	-6.863	51.270	44.407	-29.593	74.000	PEAK
2		4814.900	3.375	41.860	45.235	-28.765	74.000	PEAK
3		7233.100	9.869	38.690	48.559	-25.441	74.000	PEAK
4		9650.200	13.822	37.720	51.542	-22.458	74.000	PEAK
5	*	12053.700	18.644	33.870	52.514	-21.486	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 : Site2	**Time : 2009/04/07 - 15:49**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-20M-2412**

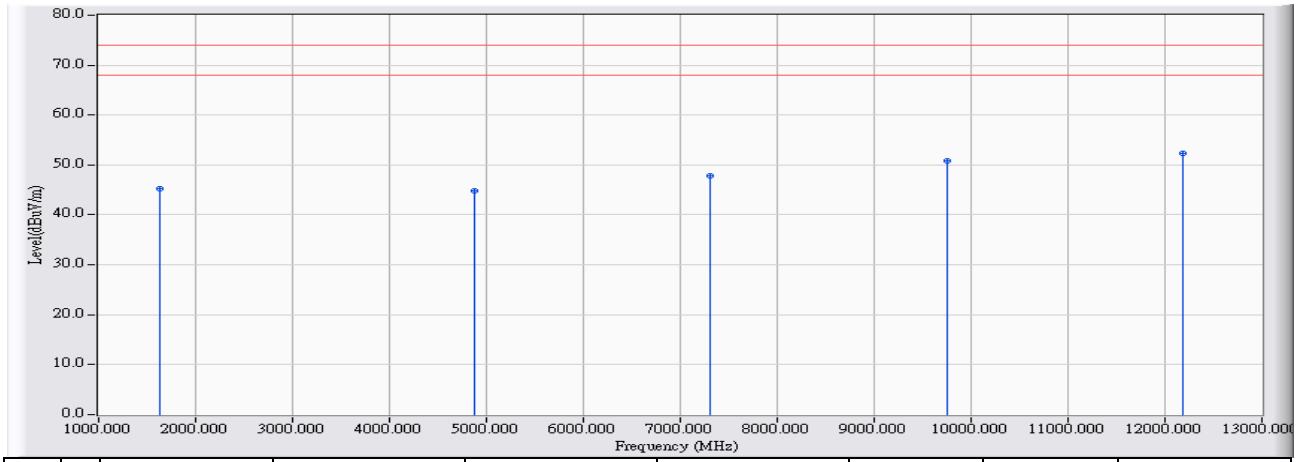


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1608.120	-4.367	56.200	51.833	-22.167	74.000	PEAK
2		4815.140	5.535	46.700	52.236	-21.764	74.000	PEAK
3		7233.200	9.452	38.560	48.013	-25.987	74.000	PEAK
4		9650.180	13.929	37.930	51.859	-22.141	74.000	PEAK
5	*	12053.640	17.365	35.310	52.675	-21.325	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 : Site2	**Time : 2009/04/07 - 16:18**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-20M-2437**

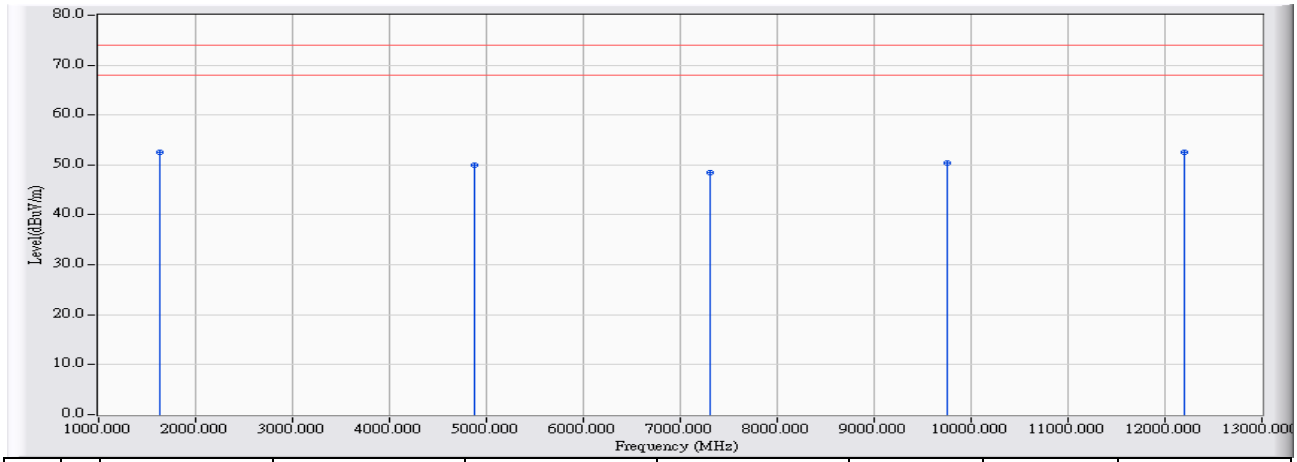


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1624.760	-6.772	51.940	45.167	-28.833	74.000	PEAK
2		4872.200	3.527	41.380	44.906	-29.094	74.000	PEAK
3		7312.200	10.233	37.540	47.773	-26.227	74.000	PEAK
4		9758.400	14.262	36.580	50.842	-23.158	74.000	PEAK
5	*	12192.200	18.093	34.340	52.433	-21.567	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 : Site2	**Time : 2009/04/07 - 16:47**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-20M-2437**

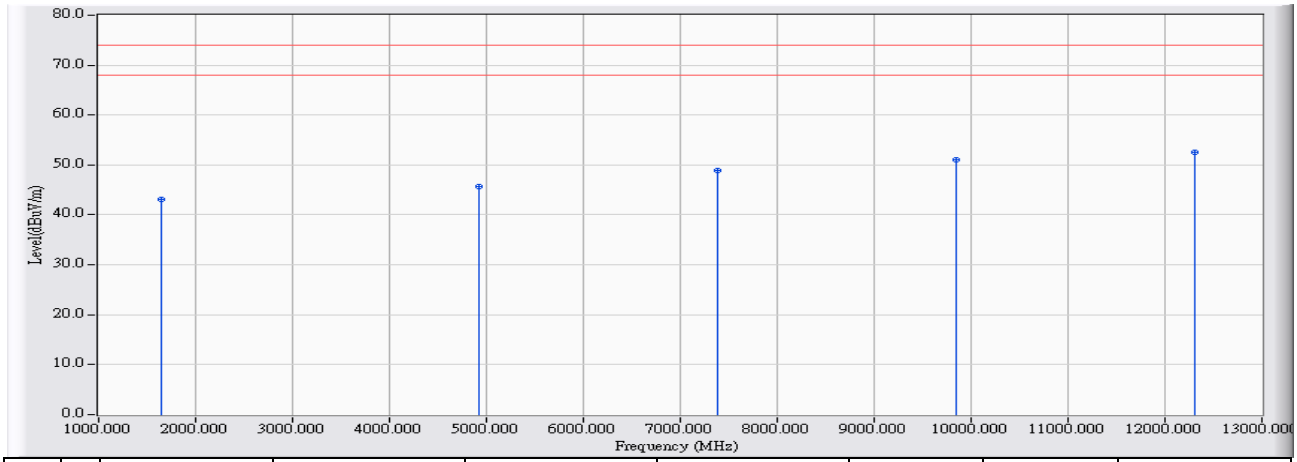


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	1624.800	-4.398	56.900	52.501	-21.499	74.000	PEAK
2		4872.220	5.576	44.460	50.035	-23.965	74.000	PEAK
3		7312.140	9.606	38.820	48.426	-25.574	74.000	PEAK
4		9758.300	14.469	35.860	50.329	-23.671	74.000	PEAK
5		12192.360	17.112	35.360	52.472	-21.528	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 : Site2	**Time : 2009/04/07 - 17:02**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-20M-2462**

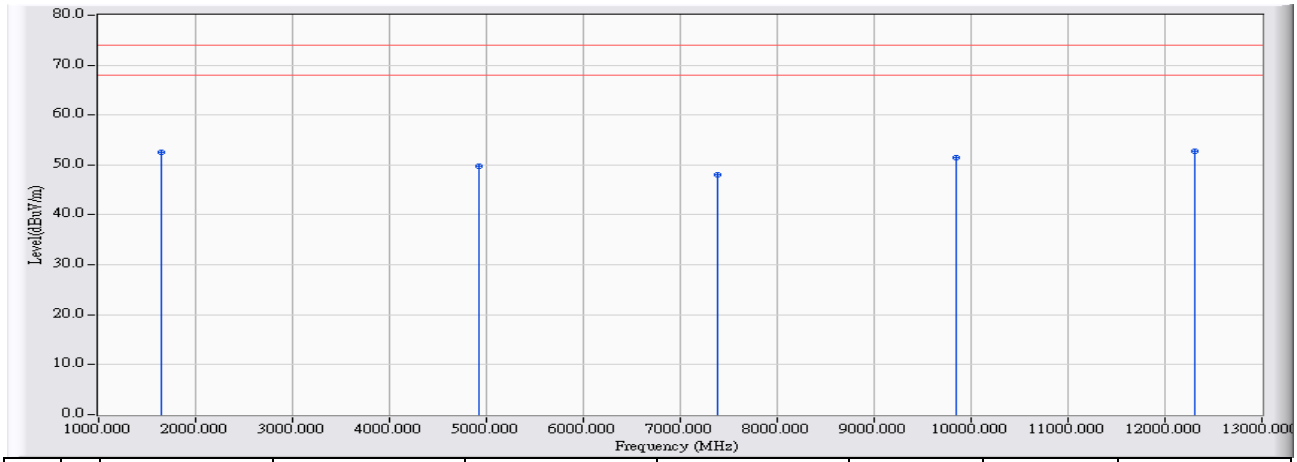


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1641.320	-6.676	49.800	43.125	-30.875	74.000	PEAK
2		4924.900	3.671	42.010	45.680	-28.320	74.000	PEAK
3		7385.200	10.578	38.420	48.998	-25.002	74.000	PEAK
4		9850.000	14.626	36.420	51.046	-22.954	74.000	PEAK
5	*	12314.000	17.618	34.880	52.497	-21.503	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 : Site2	**Time : 2009/04/07 - 17:19**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-20M-2462**

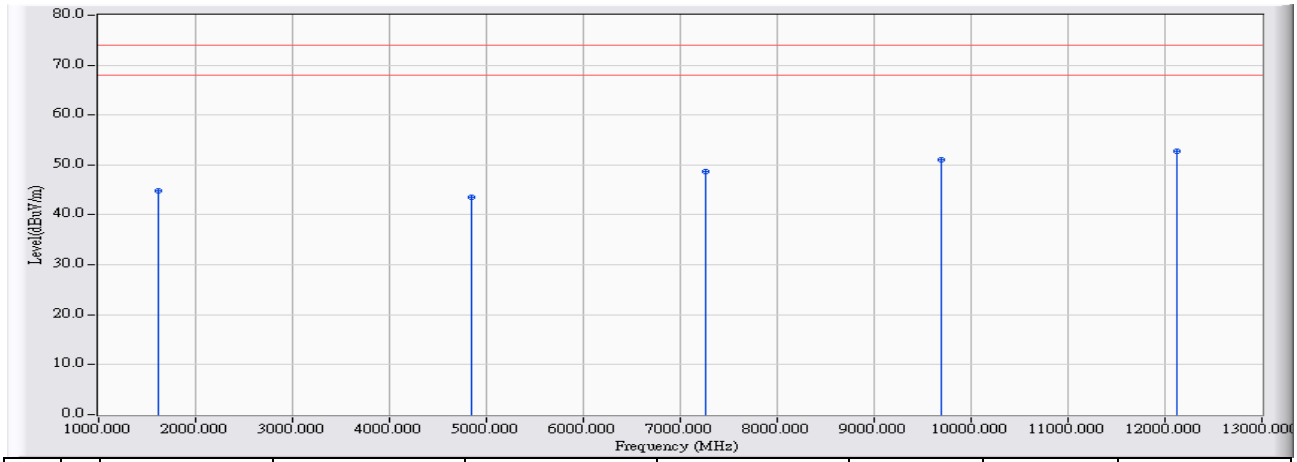


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1641.260	-4.431	57.030	52.600	-21.400	74.000	PEAK
2		4924.460	5.605	44.210	49.815	-24.185	74.000	PEAK
3		7385.360	9.758	38.330	48.088	-25.912	74.000	PEAK
4		9849.500	14.929	36.540	51.469	-22.531	74.000	PEAK
5	*	12312.800	16.886	35.800	52.687	-21.313	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 : Site2	**Time : 2009/04/07 - 17:50**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-40M-2422**

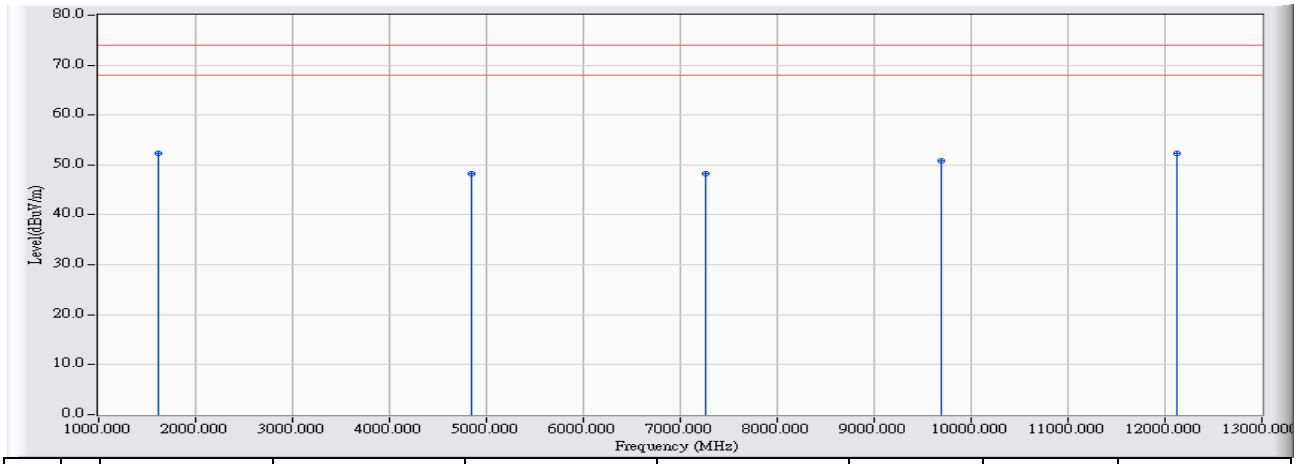


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1614.650	-6.827	51.560	44.732	-29.268	74.000	PEAK
2		4846.000	3.457	40.170	43.627	-30.373	74.000	PEAK
3		7265.200	10.017	38.580	48.597	-25.403	74.000	PEAK
4		9690.200	13.979	36.970	50.949	-23.051	74.000	PEAK
5	*	12119.200	18.387	34.300	52.688	-21.312	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 : Site2	**Time : 2009/04/07 - 18:04**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-40M-2422**

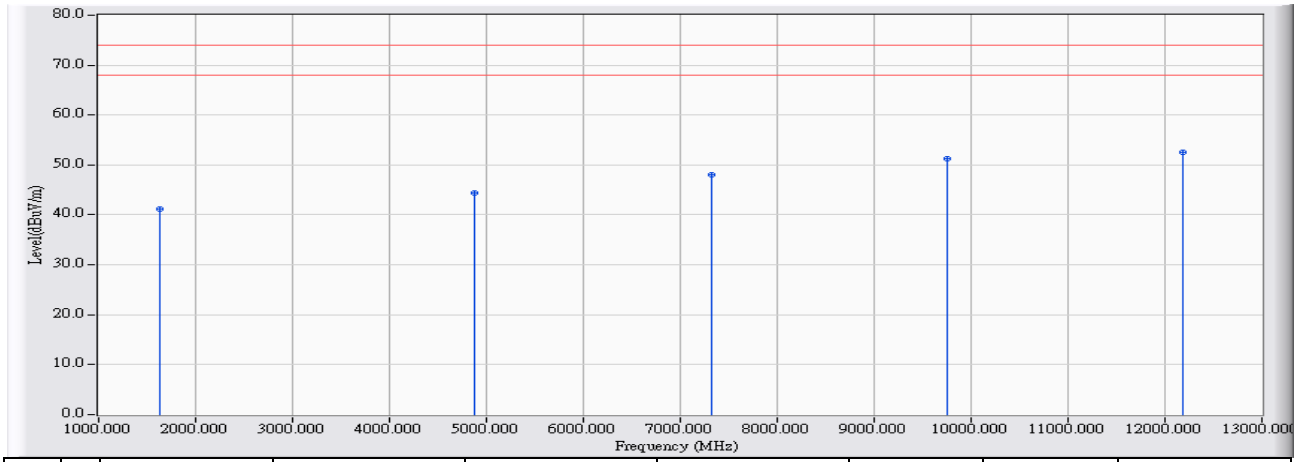


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1614.520	-4.379	56.660	52.281	-21.719	74.000	PEAK
2		4846.180	5.558	42.680	48.238	-25.762	74.000	PEAK
3		7265.200	9.515	38.670	48.185	-25.815	74.000	PEAK
4		9690.340	14.132	36.750	50.882	-23.118	74.000	PEAK
5	*	12119.140	17.242	35.180	52.422	-21.578	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 : Site2	**Time : 2009/04/07 - 18:25**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-40M-2437**

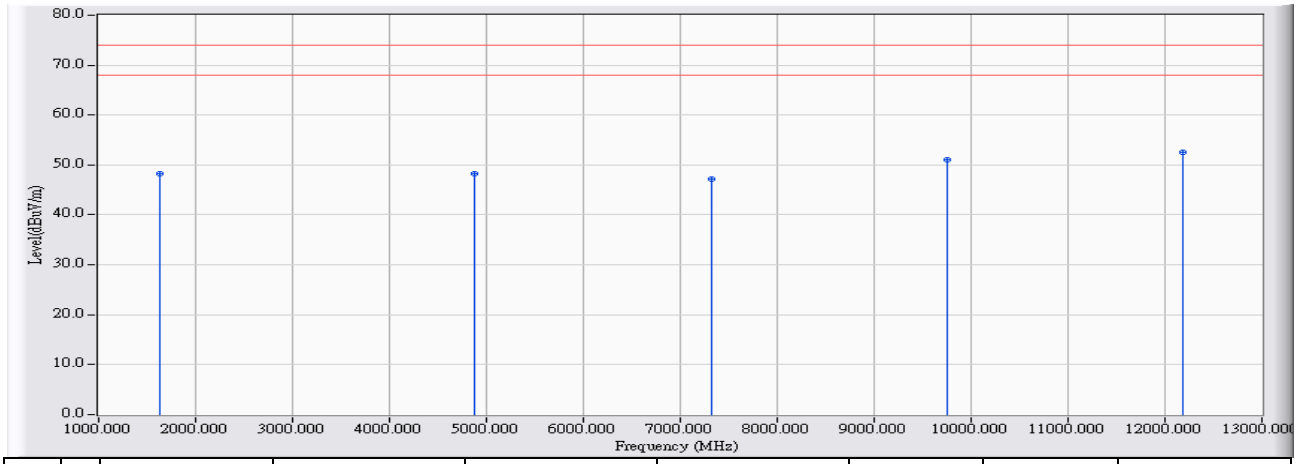


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1624.660	-6.773	47.970	41.197	-32.803	74.000	PEAK
2		4869.800	3.520	40.940	44.460	-29.540	74.000	PEAK
3		7317.480	10.257	37.890	48.147	-25.853	74.000	PEAK
4		9749.460	14.226	37.030	51.256	-22.744	74.000	PEAK
5	*	12188.800	18.106	34.470	52.576	-21.424	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 : Site2	**Time : 2009/04/07 - 18:48**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-40M-2437**

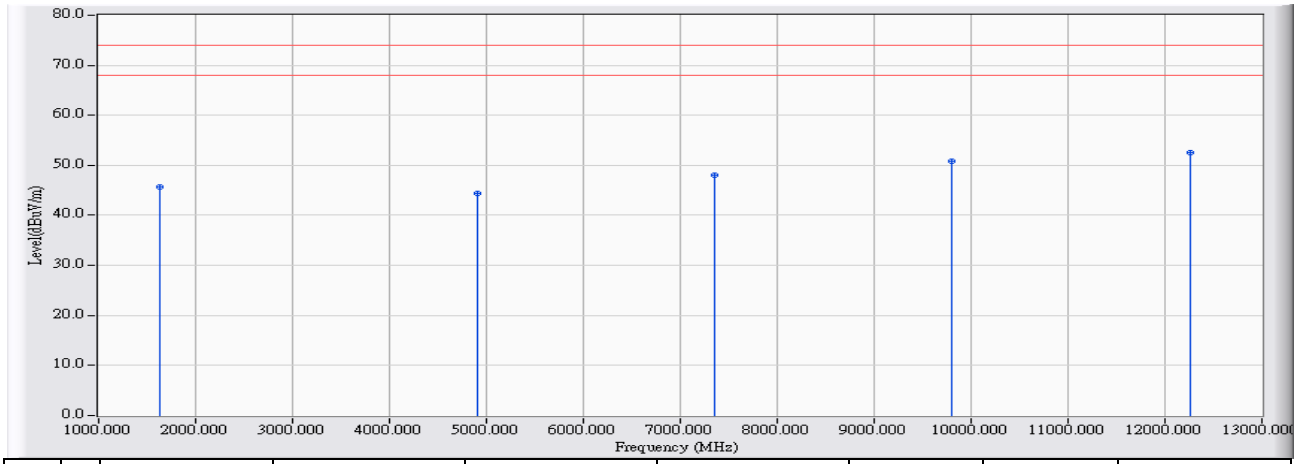


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1624.580	-4.398	52.670	48.272	-25.728	74.000	PEAK
2		4869.660	5.573	42.630	48.202	-25.798	74.000	PEAK
3		7317.300	9.616	37.670	47.286	-26.714	74.000	PEAK
4		9749.160	14.425	36.560	50.985	-23.015	74.000	PEAK
5	*	12184.420	17.127	35.410	52.537	-21.463	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 : Site2	**Time : 2009/04/07 - 19:08**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-40M-2452**

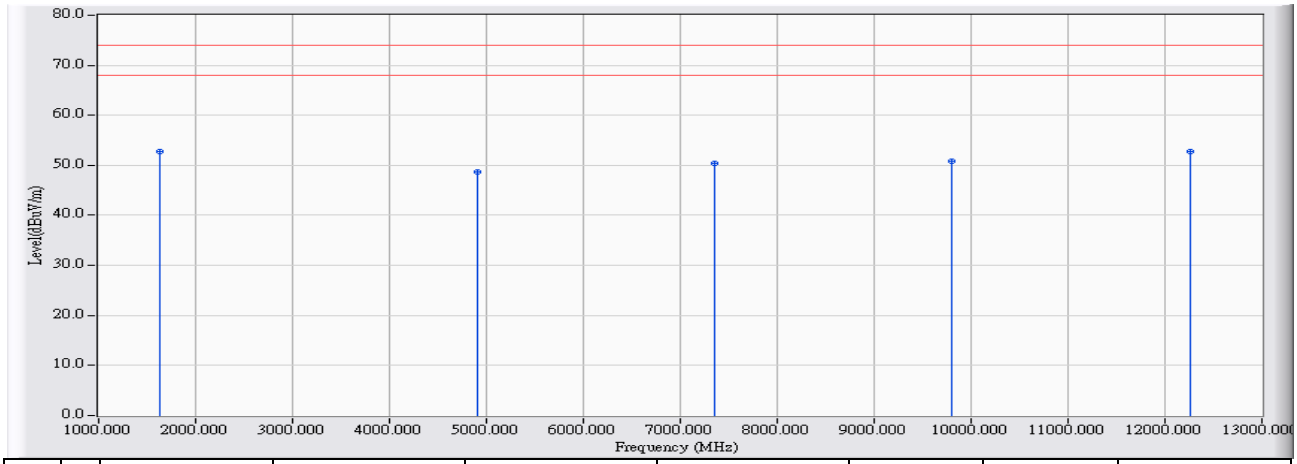


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1624.780	-6.772	52.550	45.778	-28.222	74.000	PEAK
2		4904.100	3.618	40.850	44.468	-29.532	74.000	PEAK
3		7355.620	10.442	37.620	48.062	-25.938	74.000	PEAK
4		9803.260	14.441	36.450	50.891	-23.109	74.000	PEAK
5	*	12257.400	17.838	34.670	52.508	-21.492	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 : Site2	**Time : 2009/04/07 - 19:27**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : Site2_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-40M-2452**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	1634.550	-4.416	57.270	52.853	-21.147	74.000	PEAK
2		4904.200	5.589	43.000	48.589	-25.411	74.000	PEAK
3		7354.640	9.689	40.720	50.409	-23.591	74.000	PEAK
4		9803.580	14.698	36.060	50.758	-23.242	74.000	PEAK
5		12256.220	16.993	35.670	52.662	-21.338	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

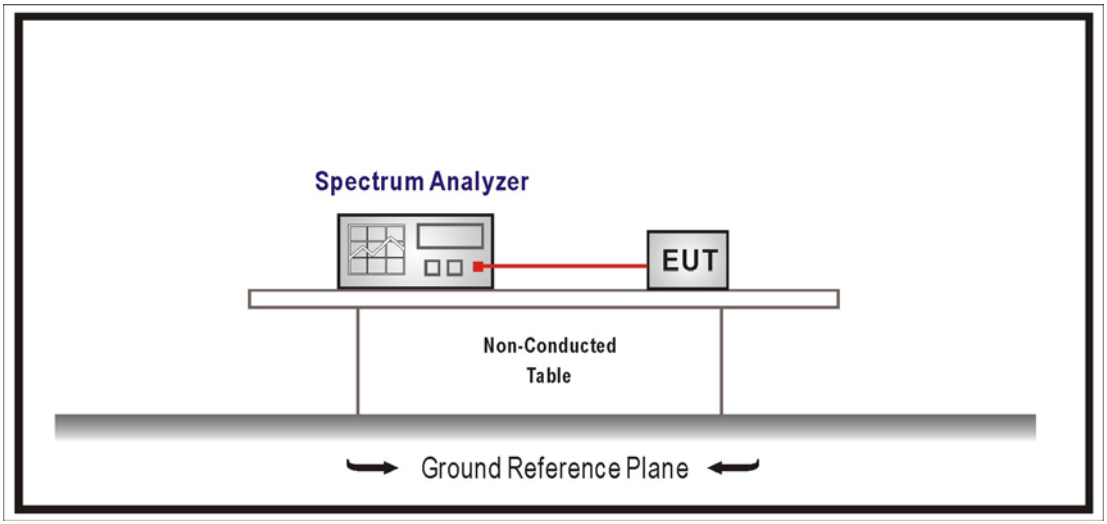
The following test equipments are used during the test:

RF Conducted Measurement:				
Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	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.

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

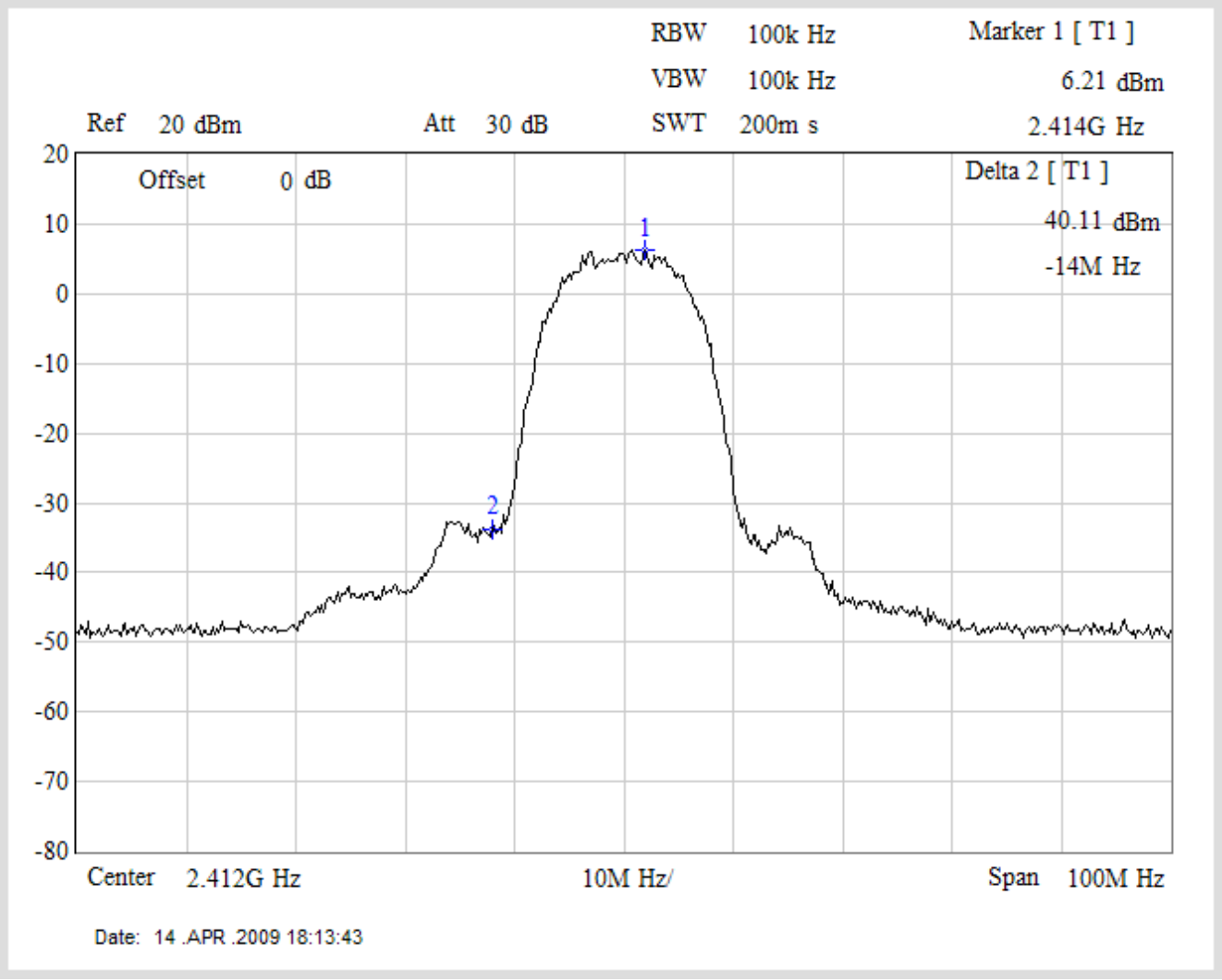
The measurement uncertainty
Conducted is defined as ± 1.27dB
Radiated is defined as ± 3.9dB

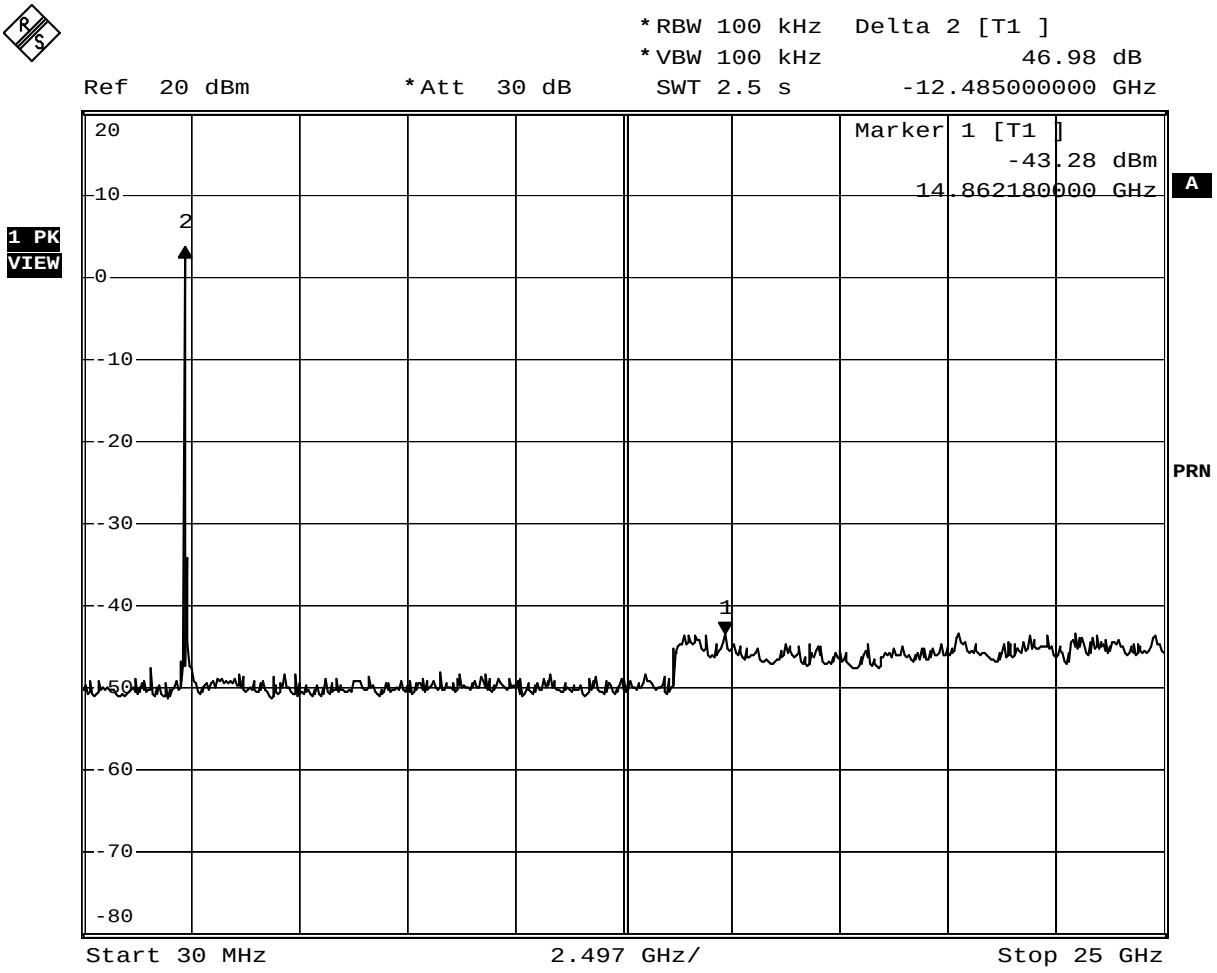
5.6. Test Result

Product	Wireless N Router with All-in-One Printer Server		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2009/04/14	Test Site	No.1 OATS

IEEE 802.11b, Antenna Gain: 2.77dBi, Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	40.11	≧ 20	Pass
11	2462	50.47	≧ 20	Pass

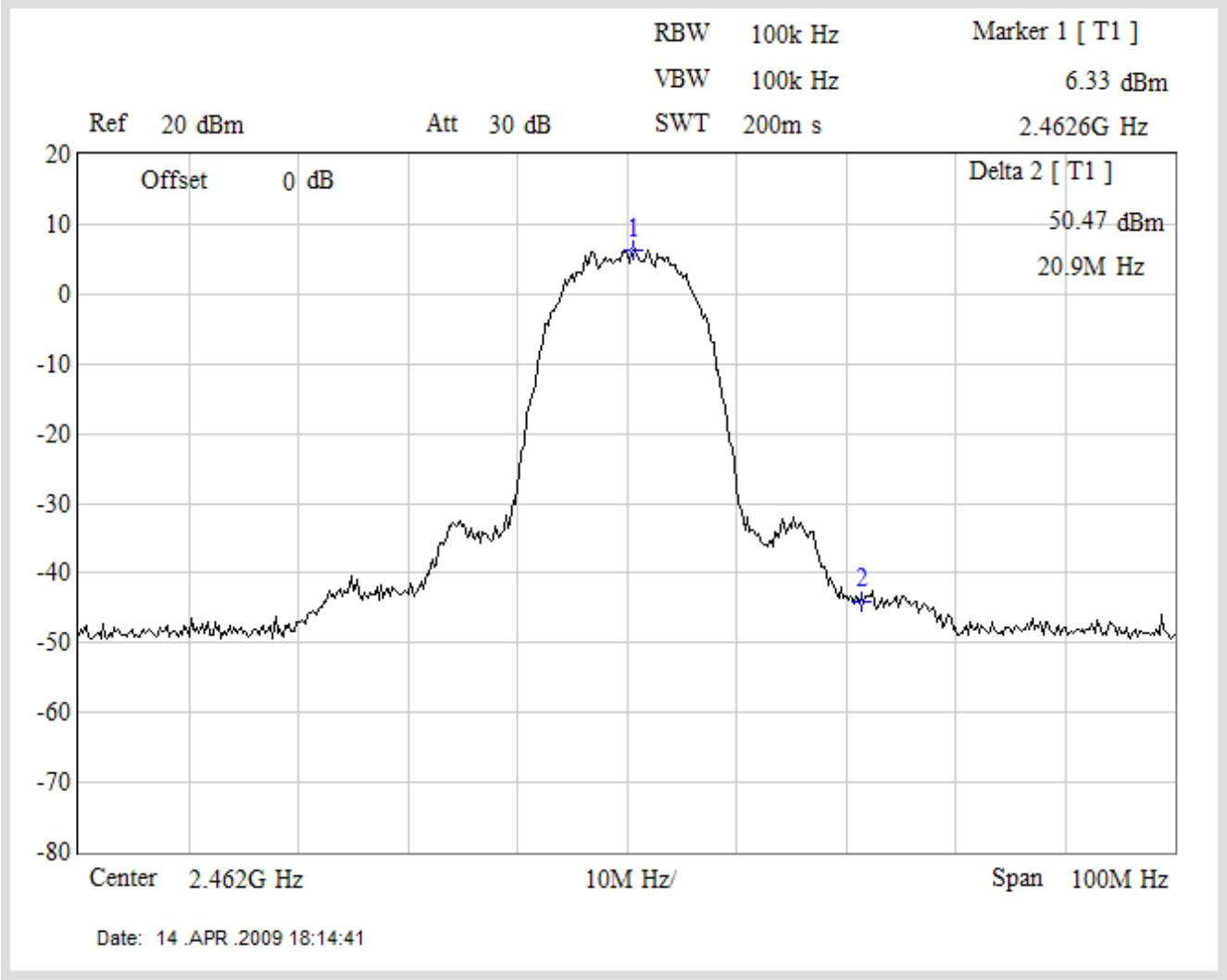
Channel 01 (2412MHz)

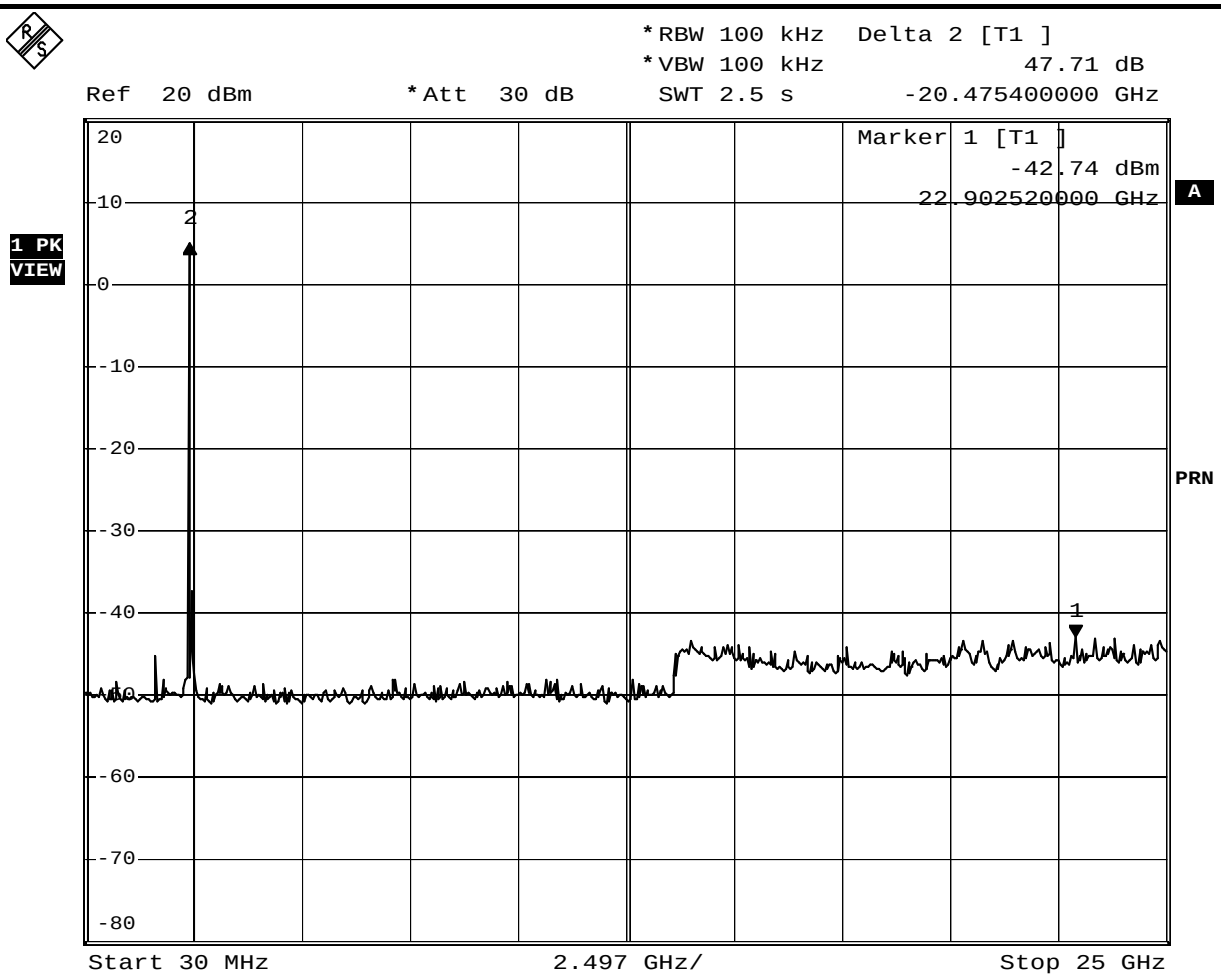




Date: 17.APR.2009 16:50:26

Channel 11 (2462MHz)



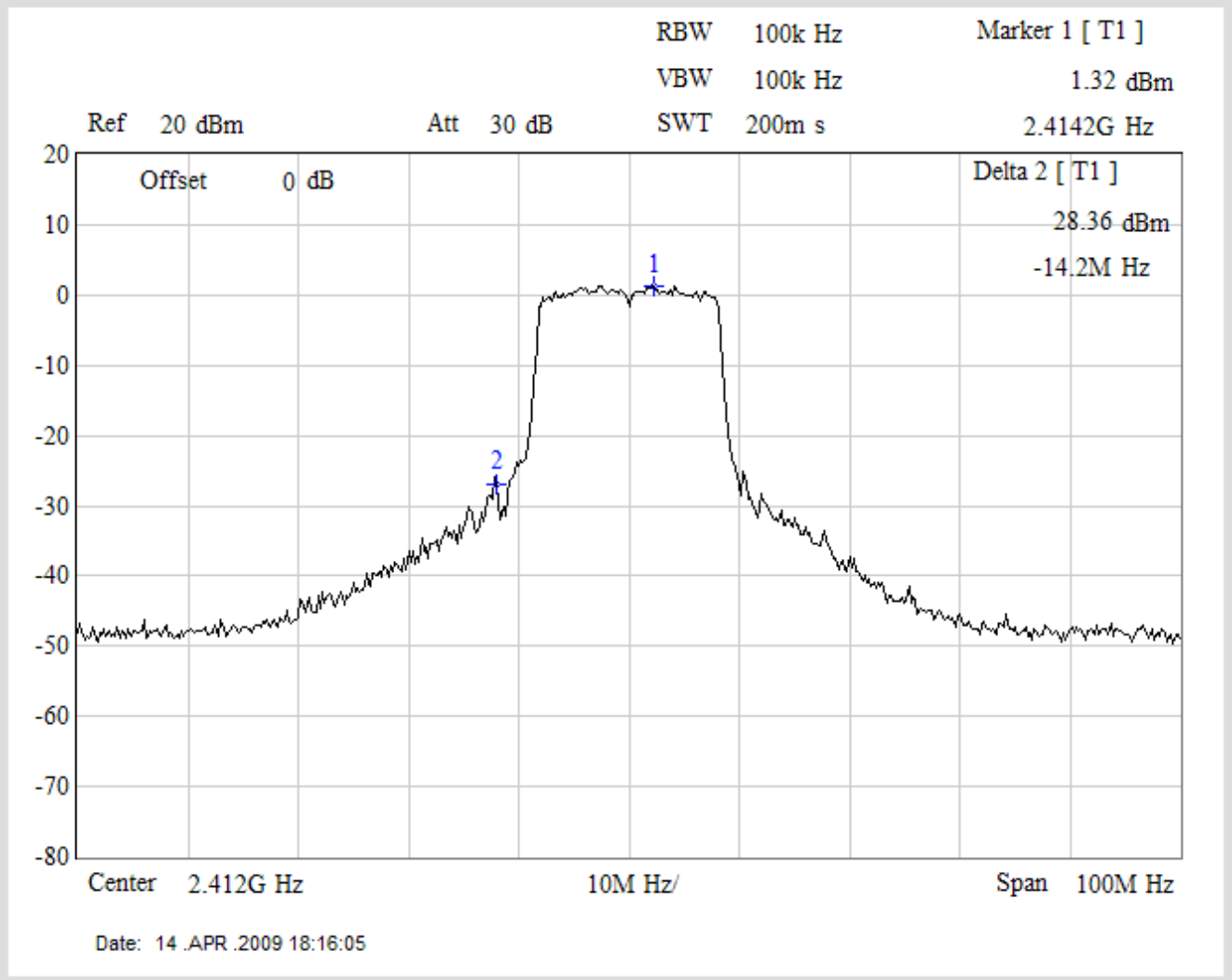


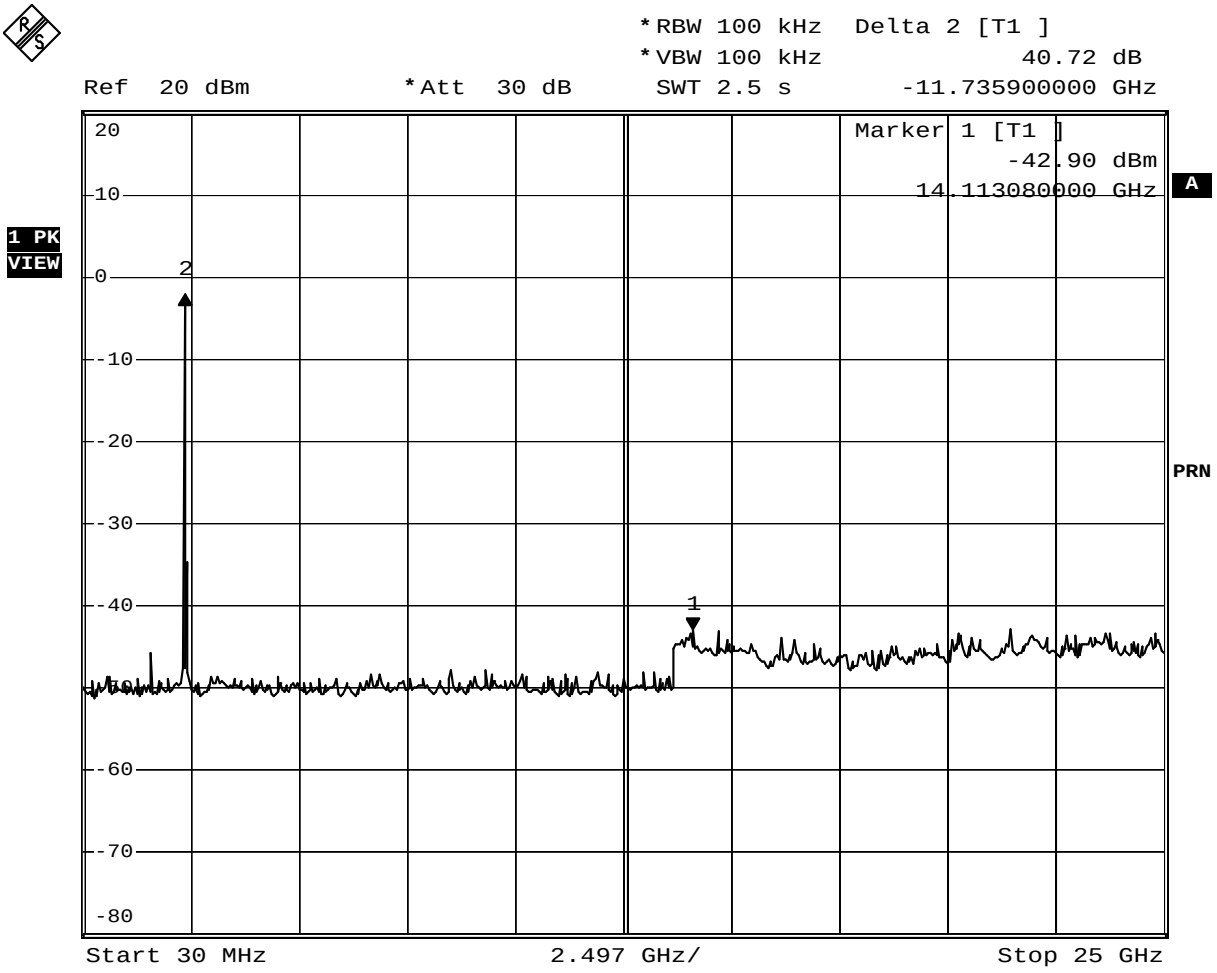
Date: 17.APR.2009 16:51:29

Product	Wireless N Router with All-in-One Printer Server		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2009/04/14	Test Site	No.1 OATS

IEEE 802.11g, Antenna Gain: 2.77dBi, Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	28.36	≧ 20	Pass
11	2462	39.93	≧ 20	Pass

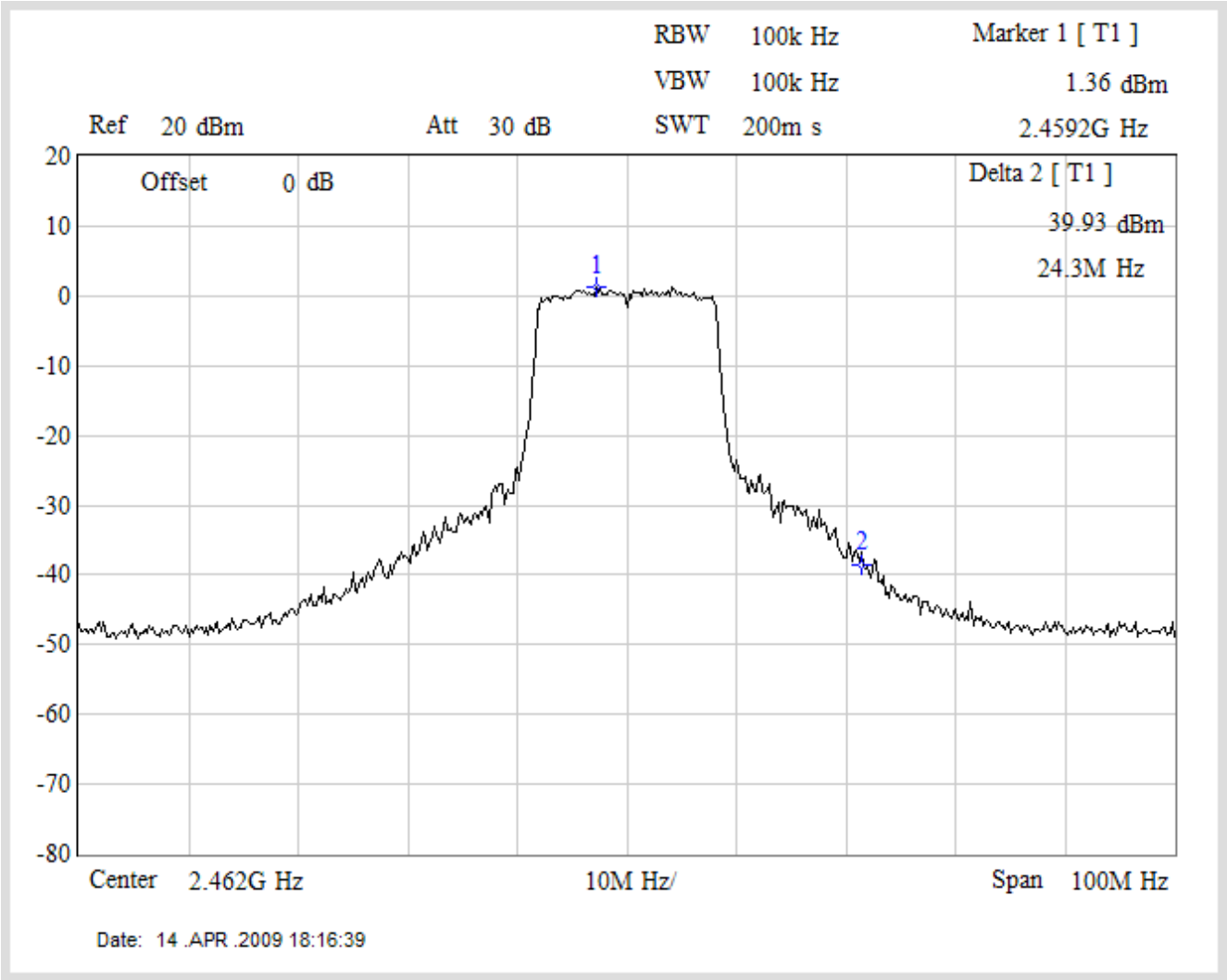
Channel 01 (2412MHz)

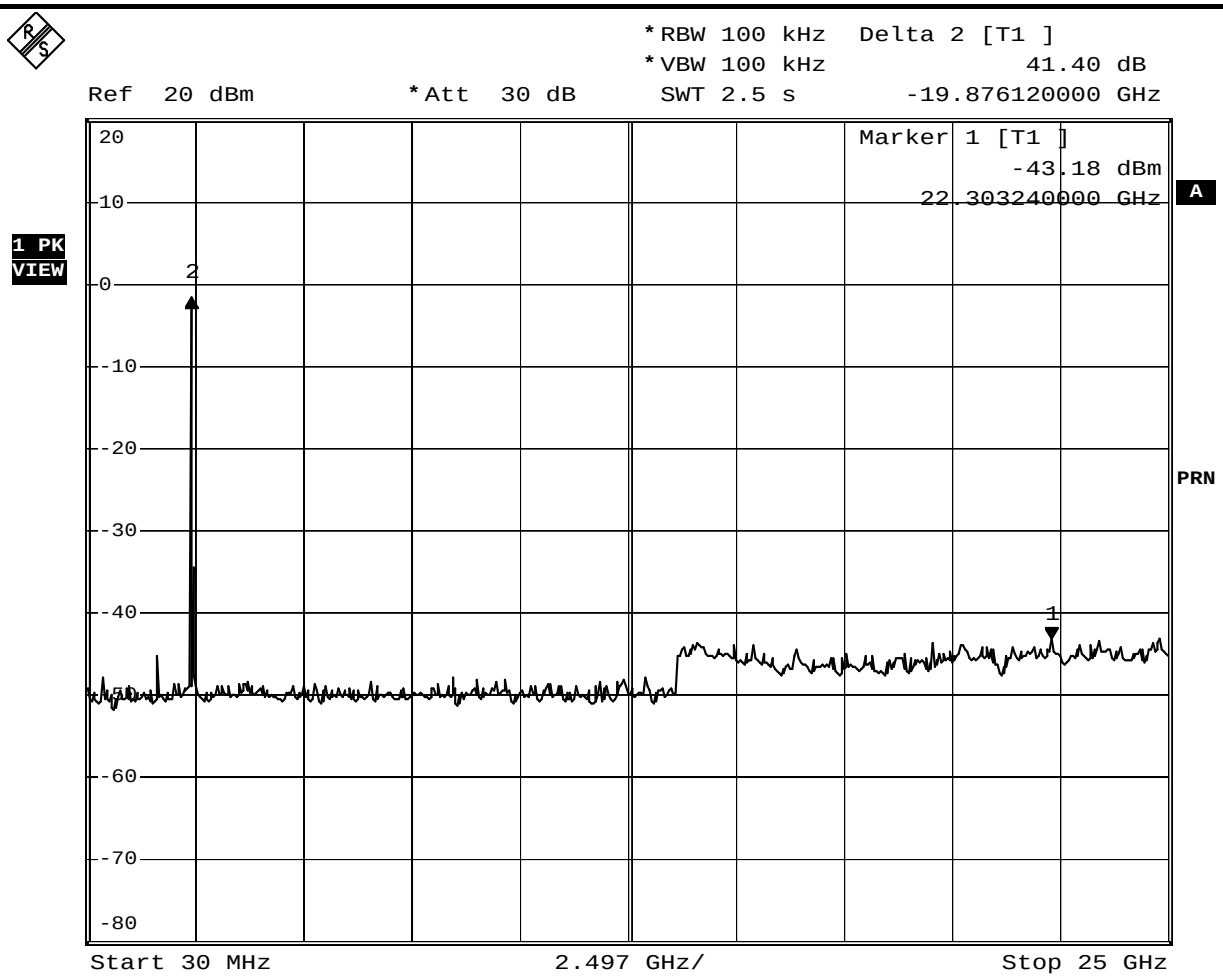




Date: 17.APR.2009 16:52:53

Channel 11 (2462MHz)



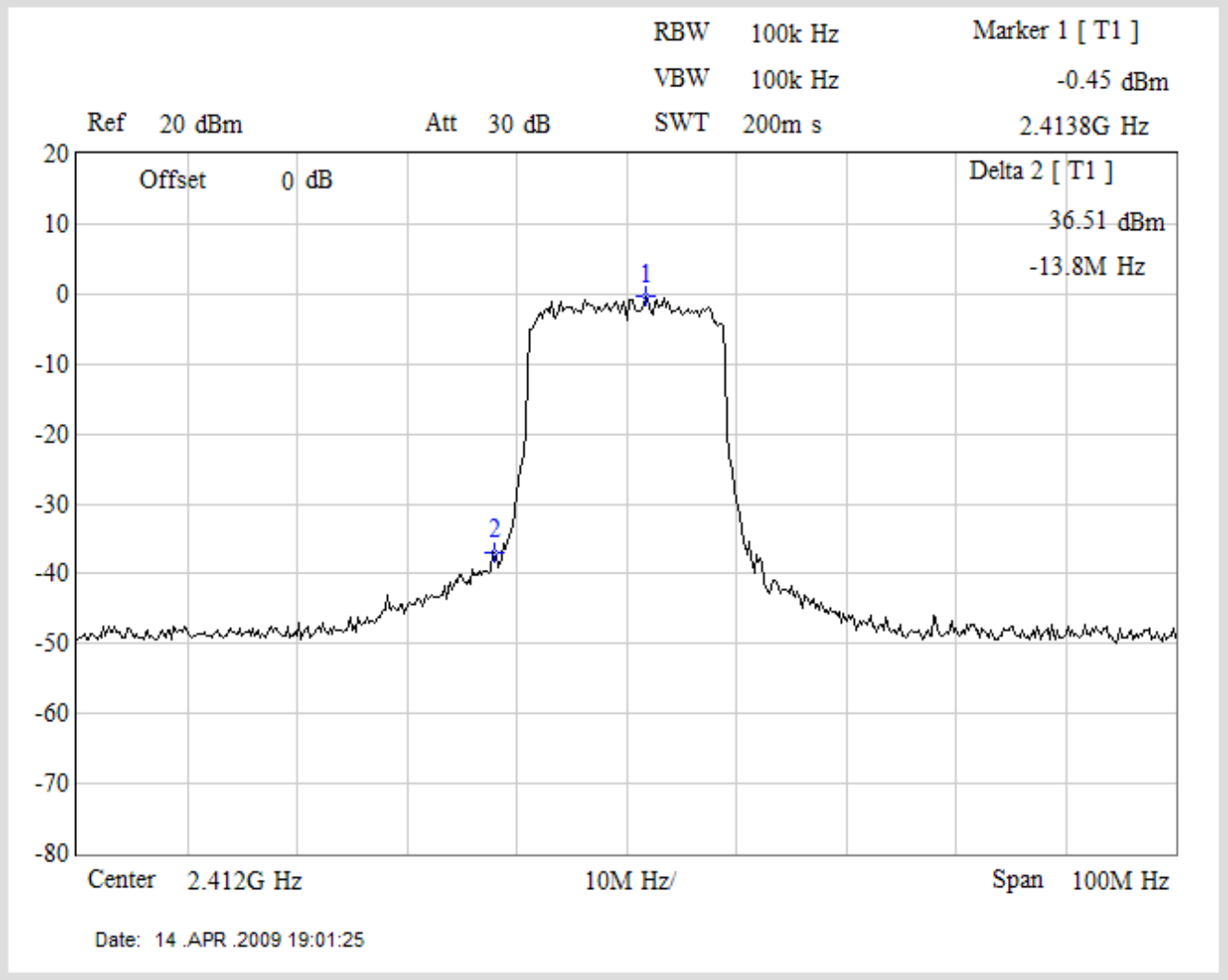


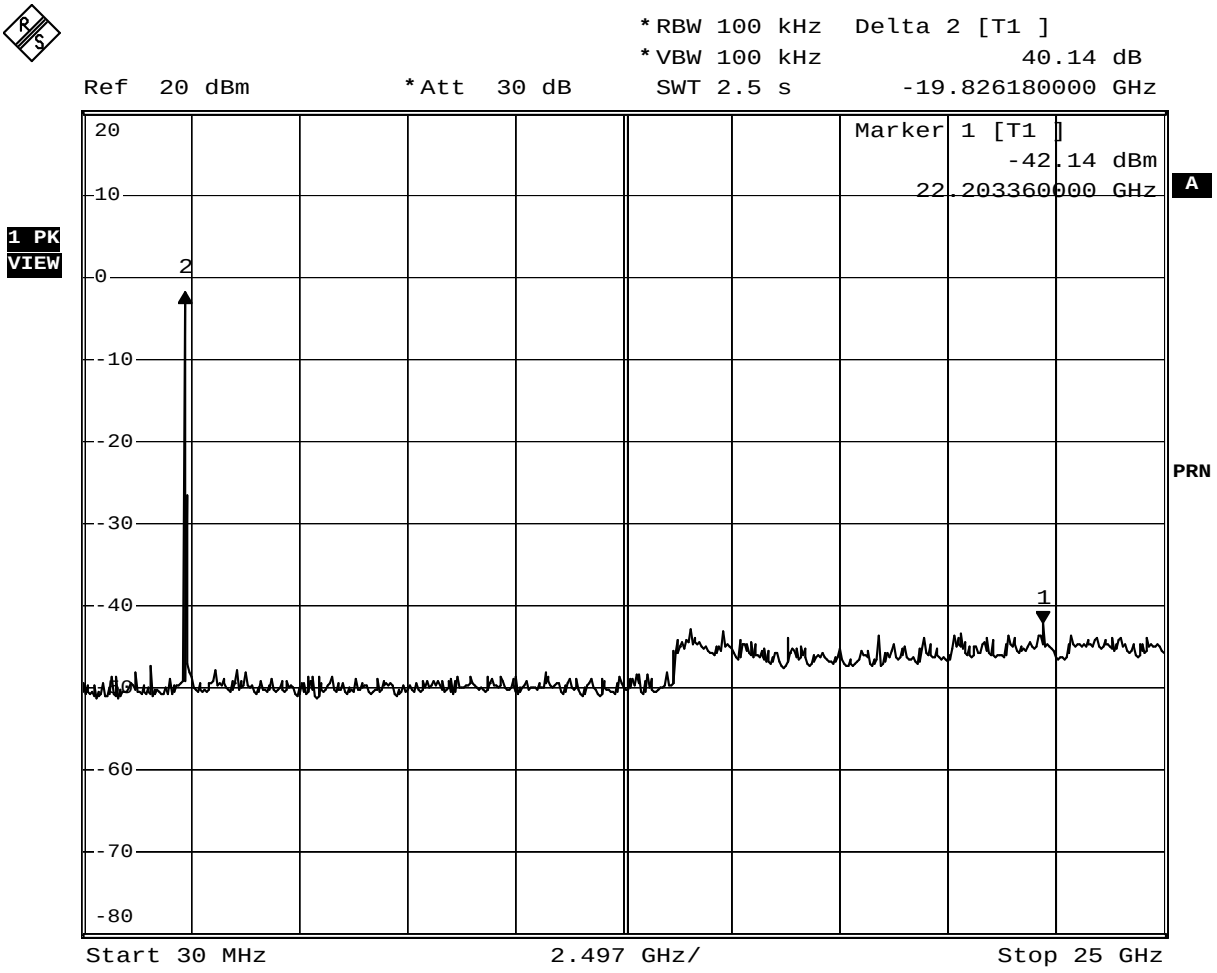
Date: 17.APR.2009 16:59:12

Product	Wireless N Router with All-in-One Printer Server		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2009/04/14	Test Site	No.1 OATS

IEEE 802.11n (ANT A (20MHz)), Antenna Gain: 2.77dBi, Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	36.51	≧ 20	Pass
11	2462	46.86	≧ 20	Pass

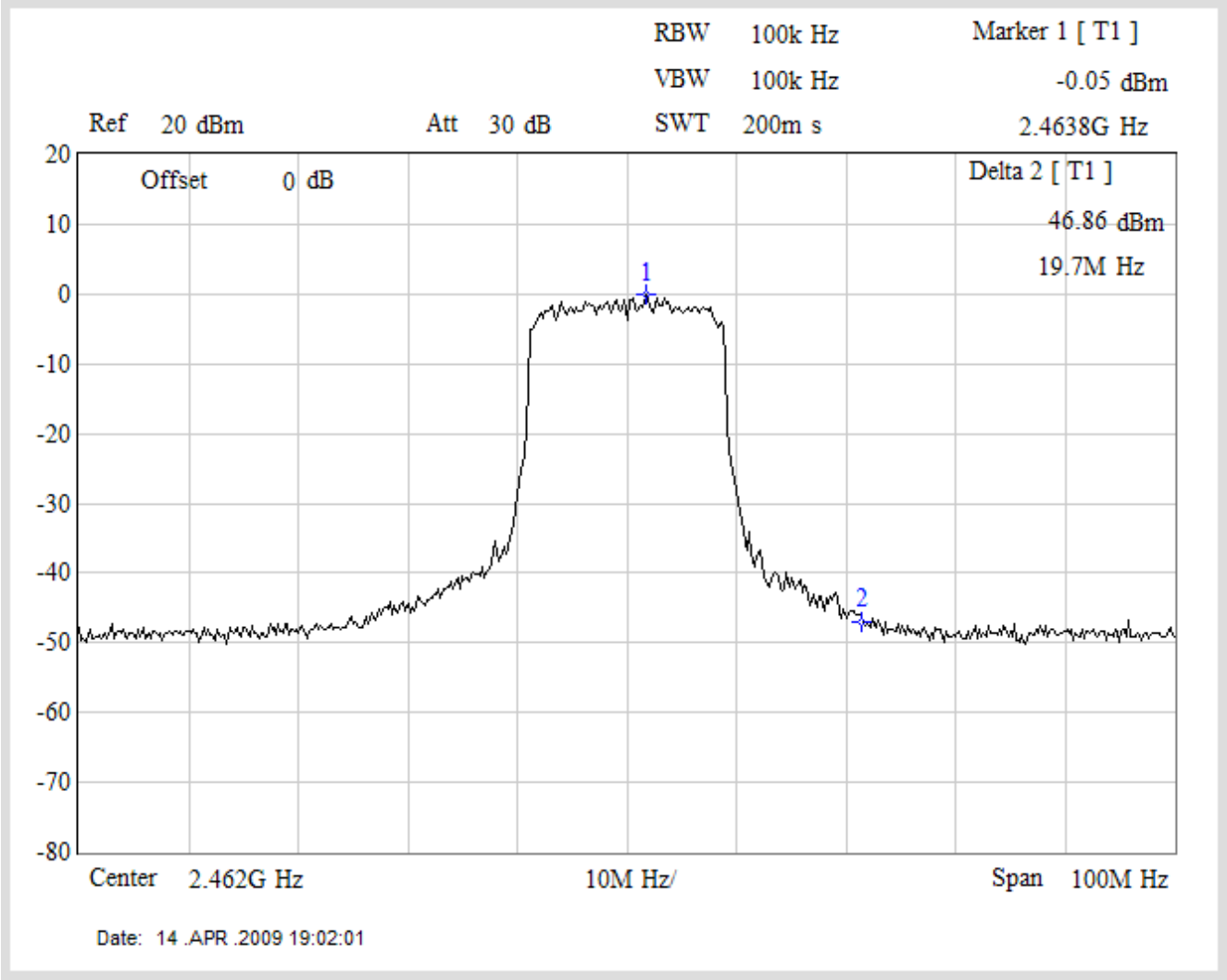
Channel 1 (2412MHz)

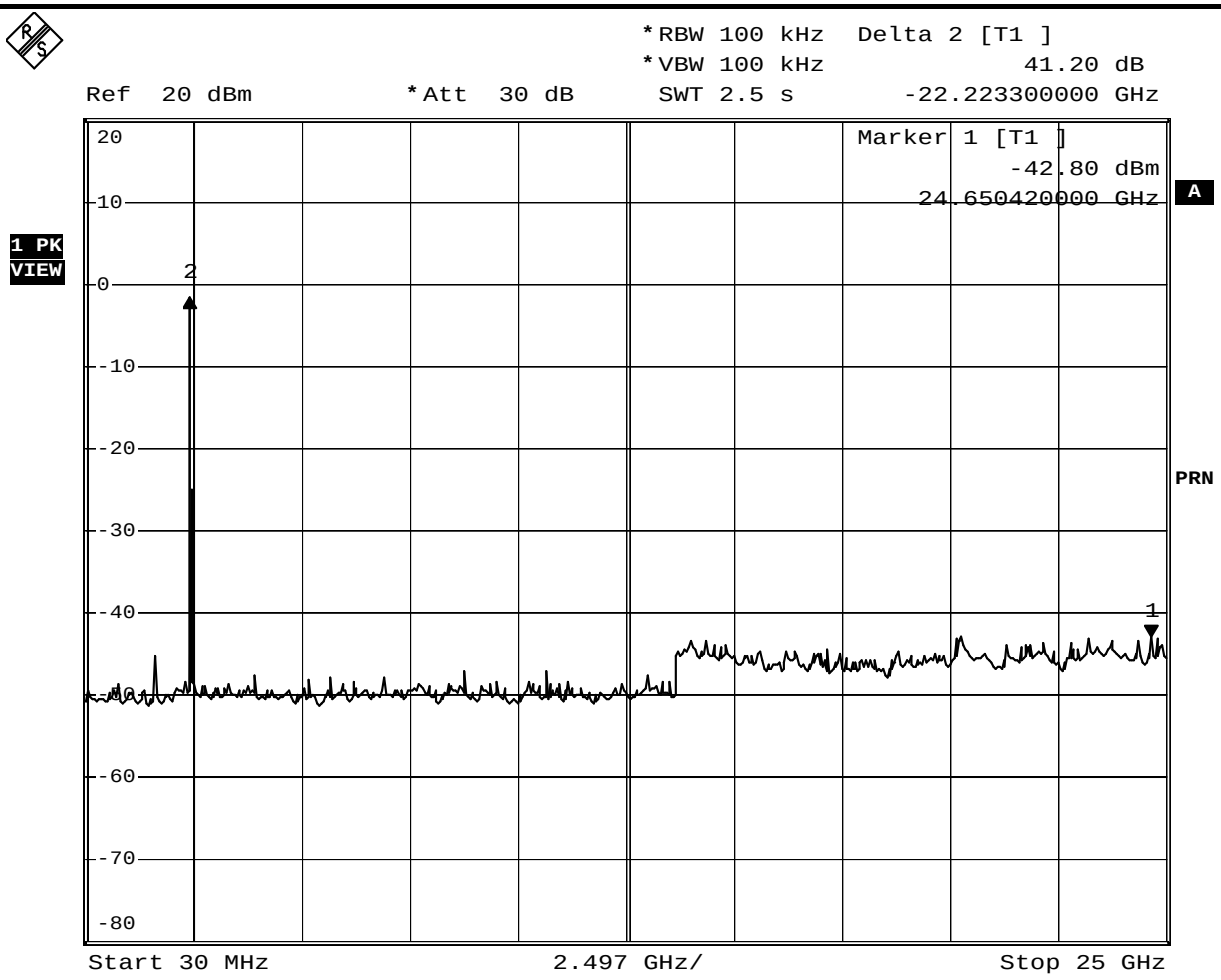




Date: 17.APR.2009 17:01:32

Channel 11 (2462MHz)



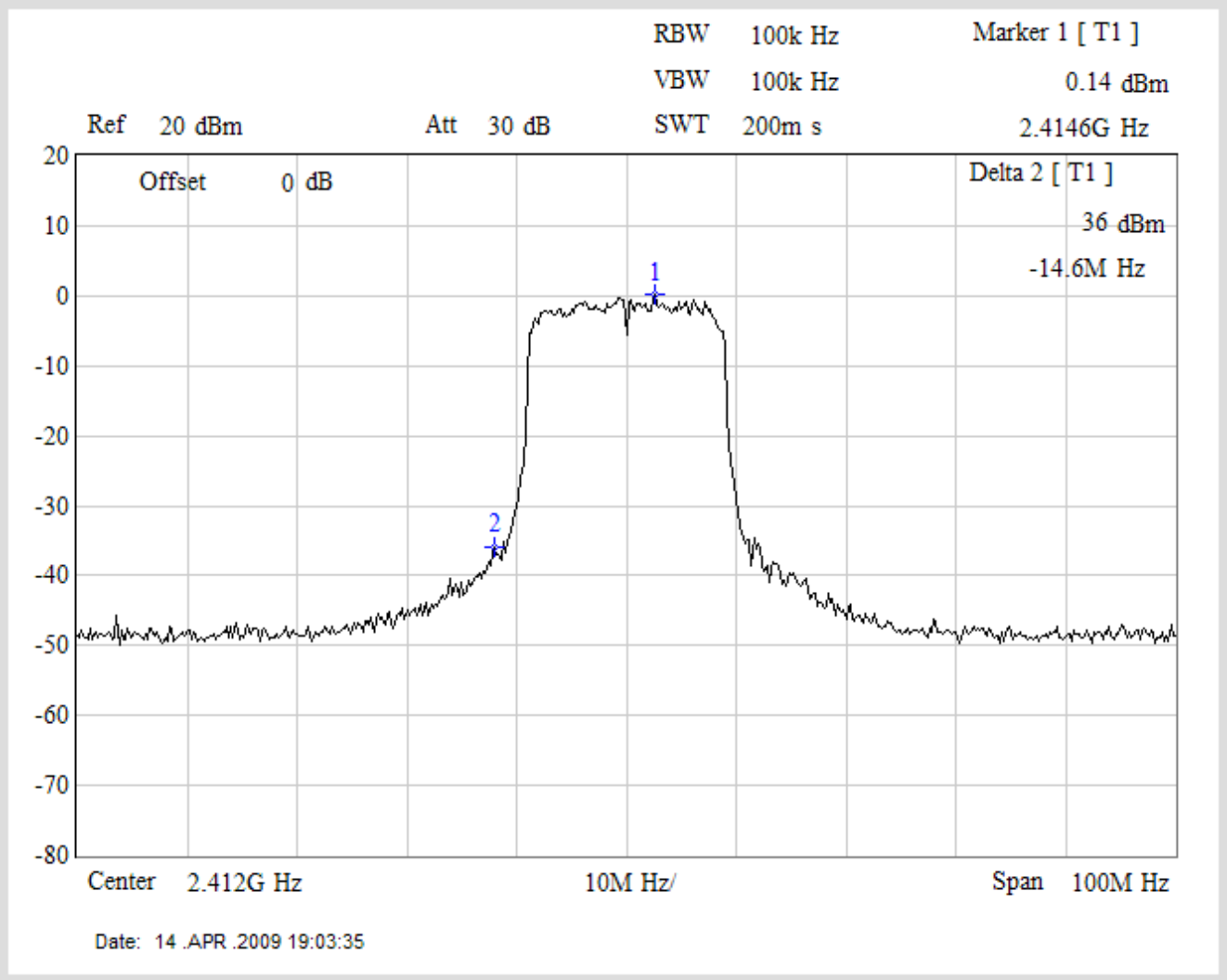


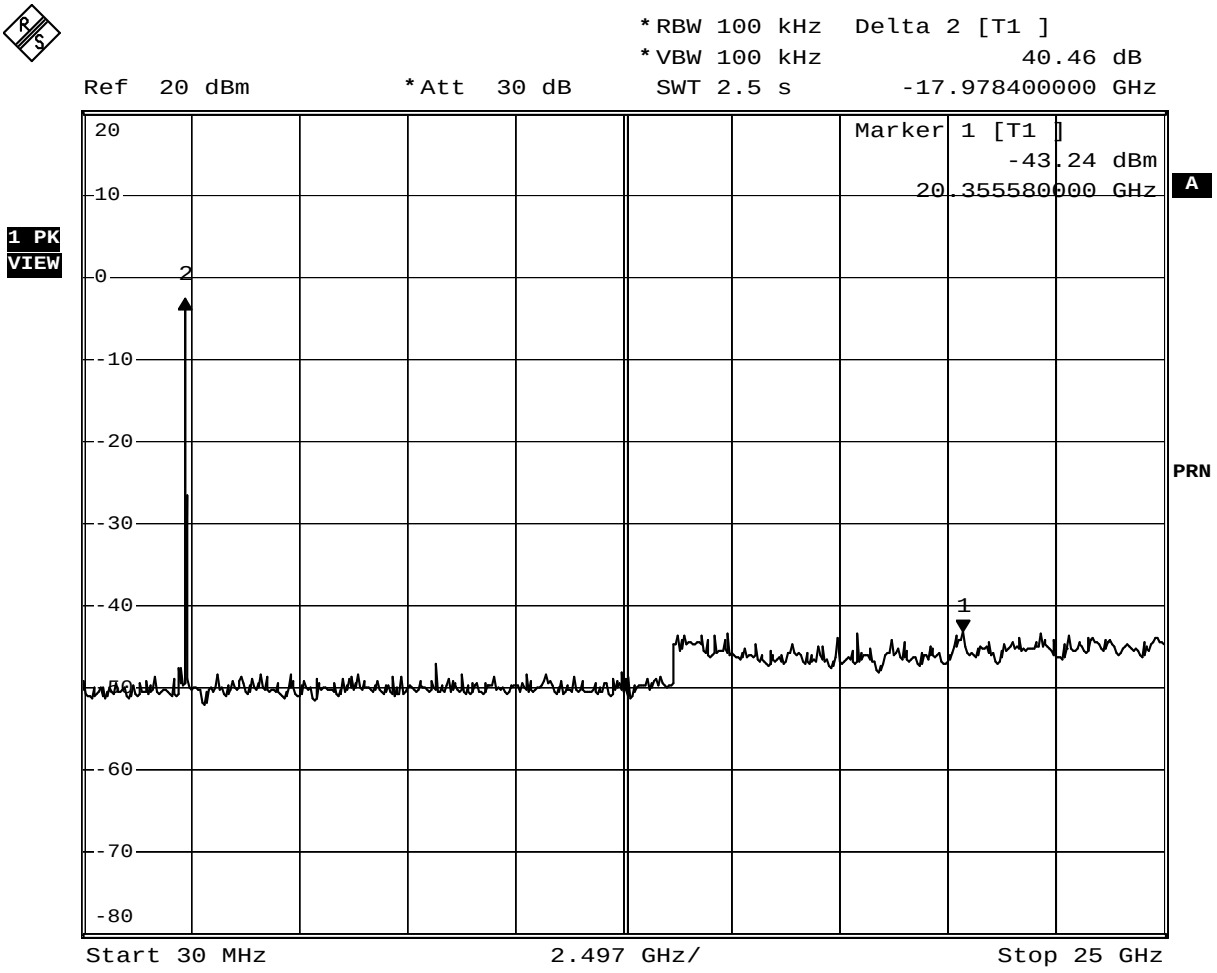
Date: 17.APR.2009 17:05:10

Product	Wireless N Router with All-in-One Printer Server		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2009/04/14	Test Site	No.1 OATS

IEEE 802.11n (ANT B (20MHz)), Antenna Gain: 3.85dBi, Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	36.00	≧ 20	Pass
11	2462	46.65	≧ 20	Pass

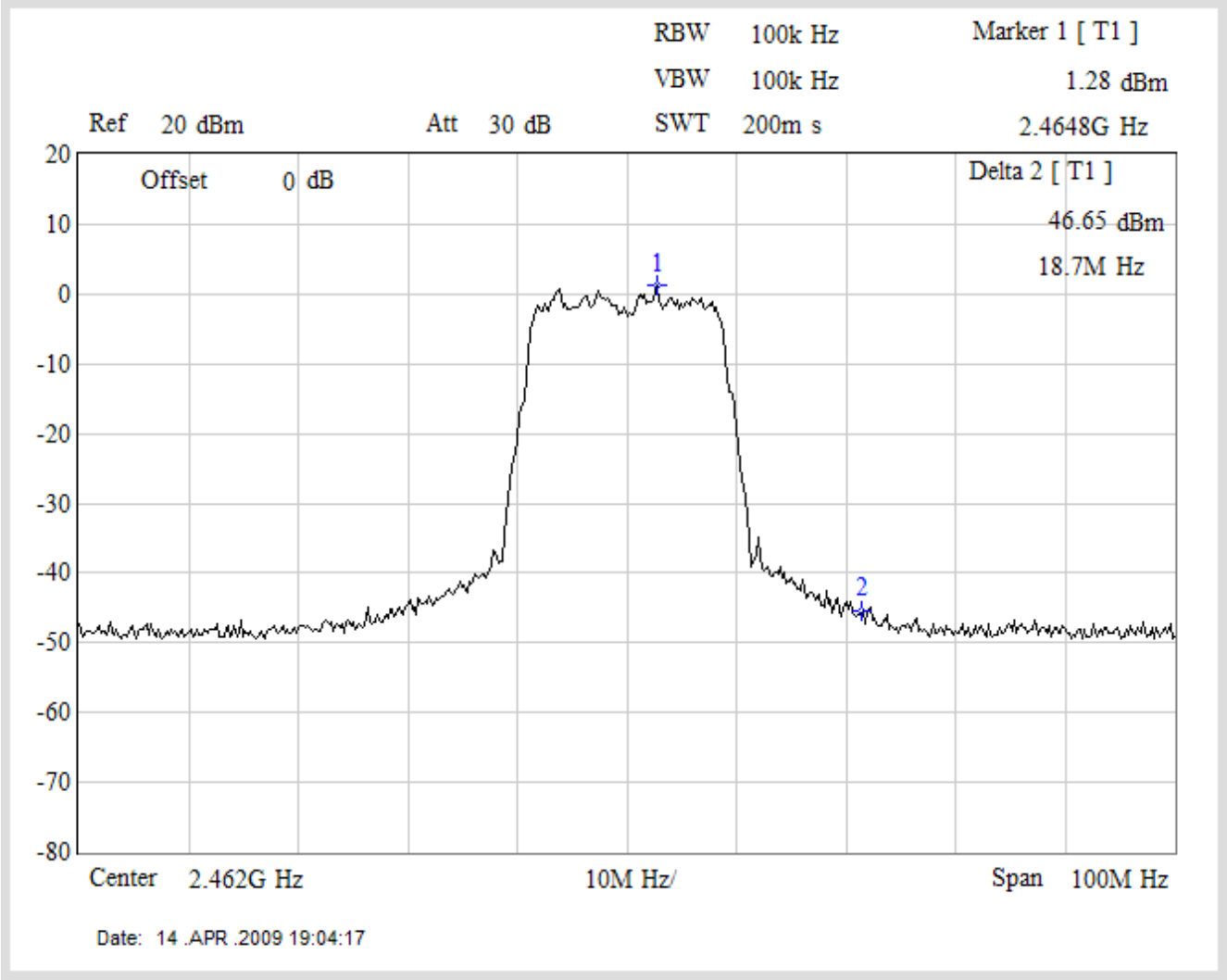
Channel 1 (2412MHz)

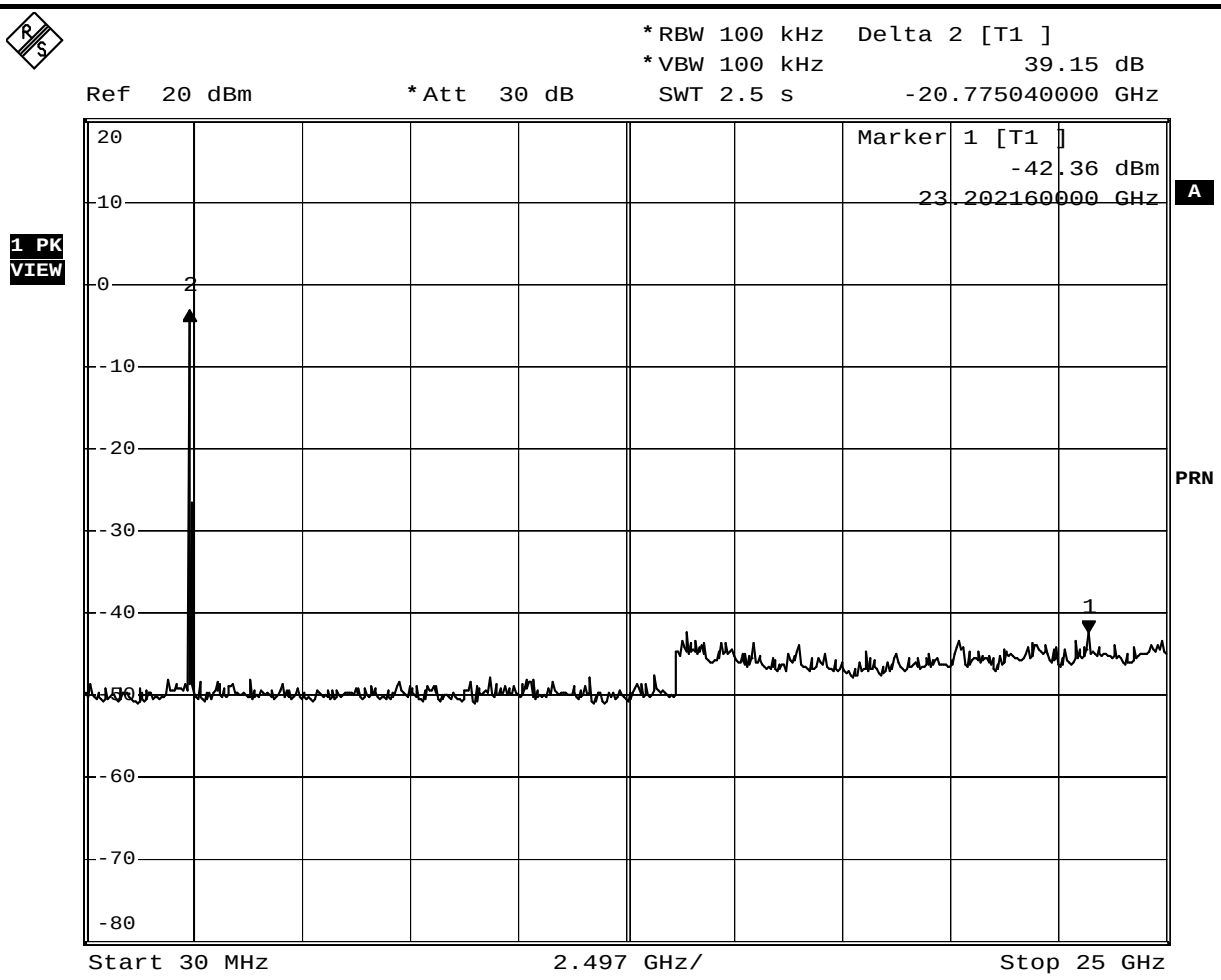




Date: 17.APR.2009 17:02:58

Channel 11 (2462MHz)



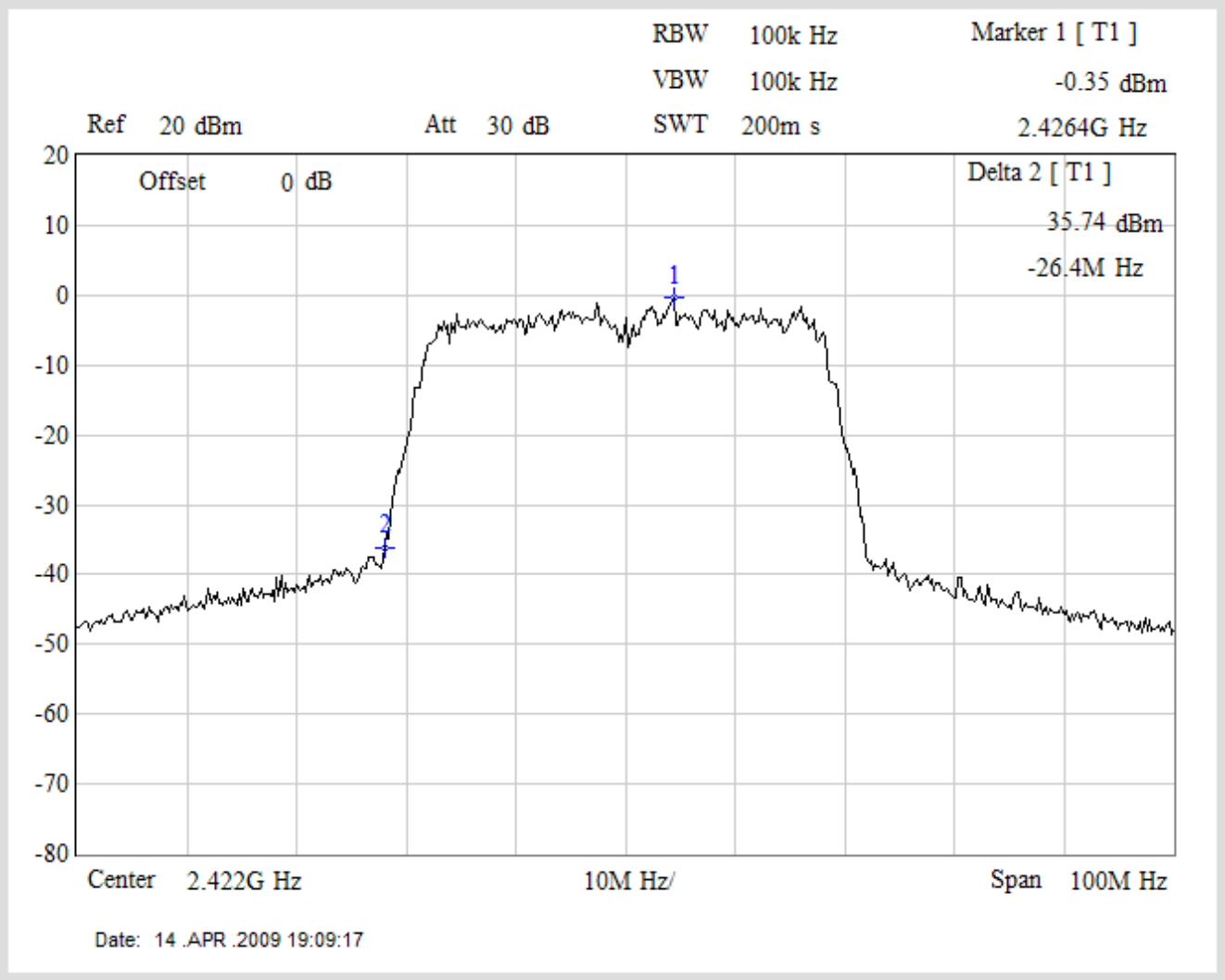


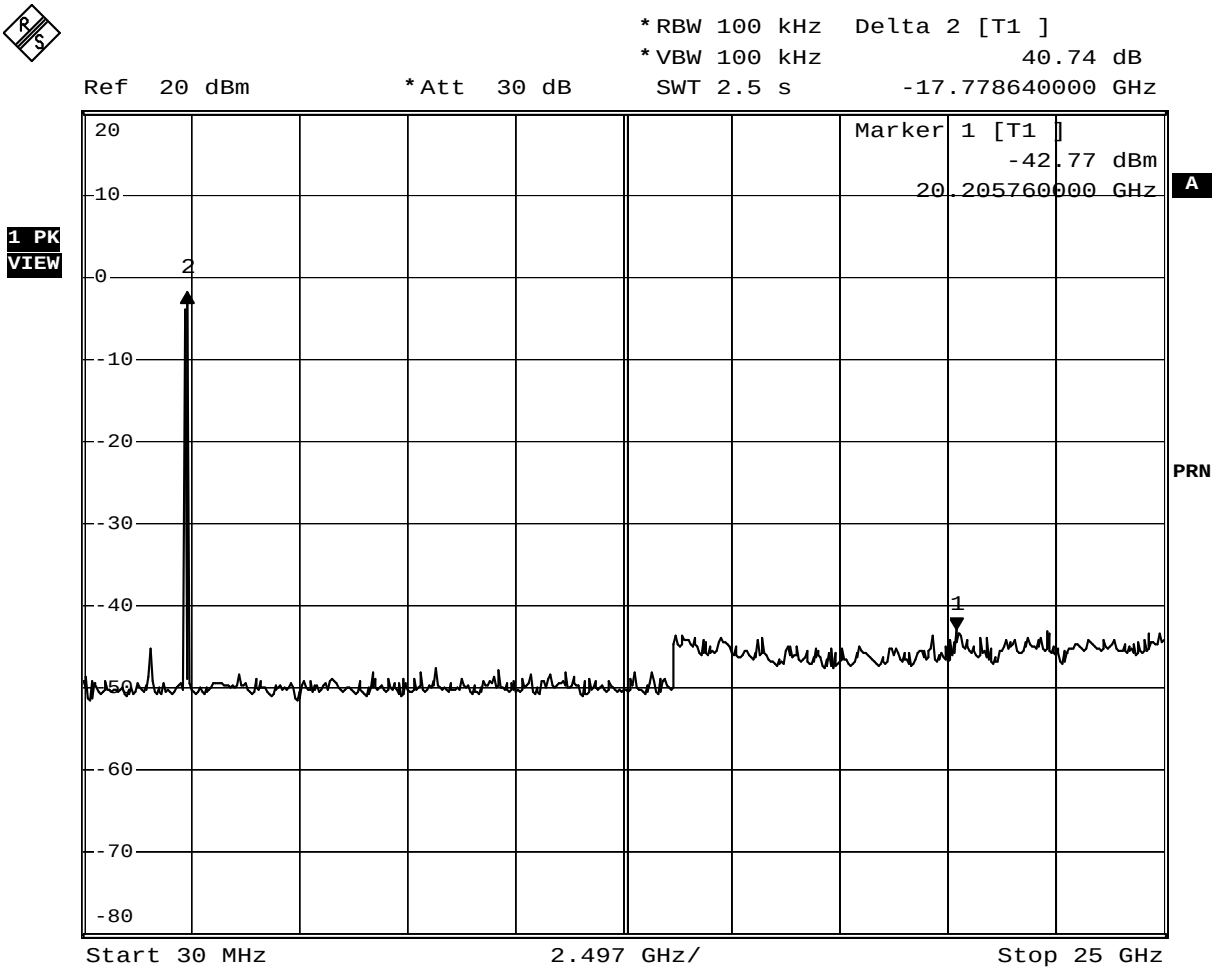
Date: 17.APR.2009 17:04:21

Product	Wireless N Router with All-in-One Printer Server		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2009/04/14	Test Site	No.1 OATS

IEEE 802.11n (ANT A (40MHz)), Antenna Gain: 2.77dBi, Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	35.74	≧ 20	Pass
9	2452	41.62	≧ 20	Pass

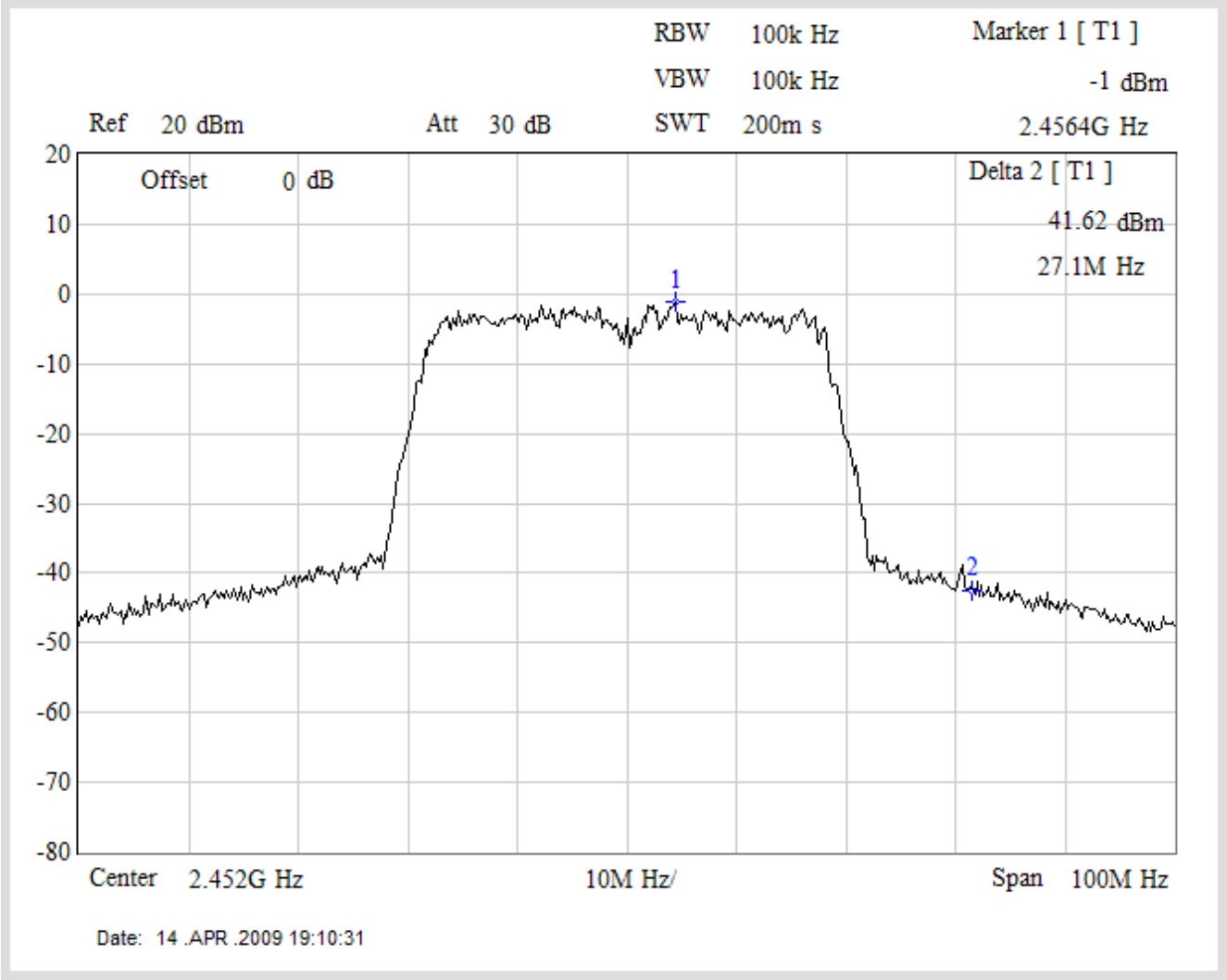
Channel 3 (2422MHz)

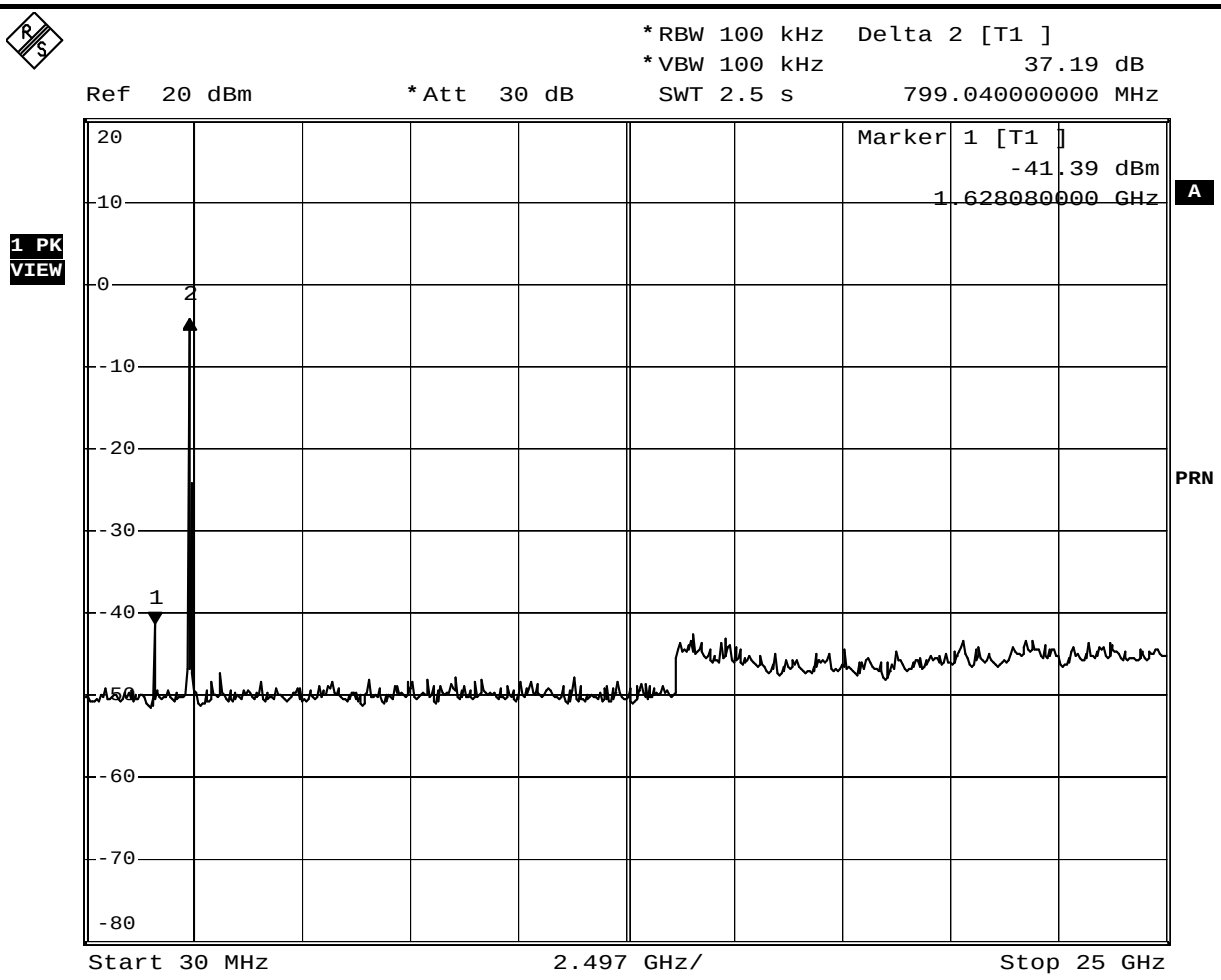




Date: 17.APR.2009 17:06:41

Channel 9 (2452MHz)



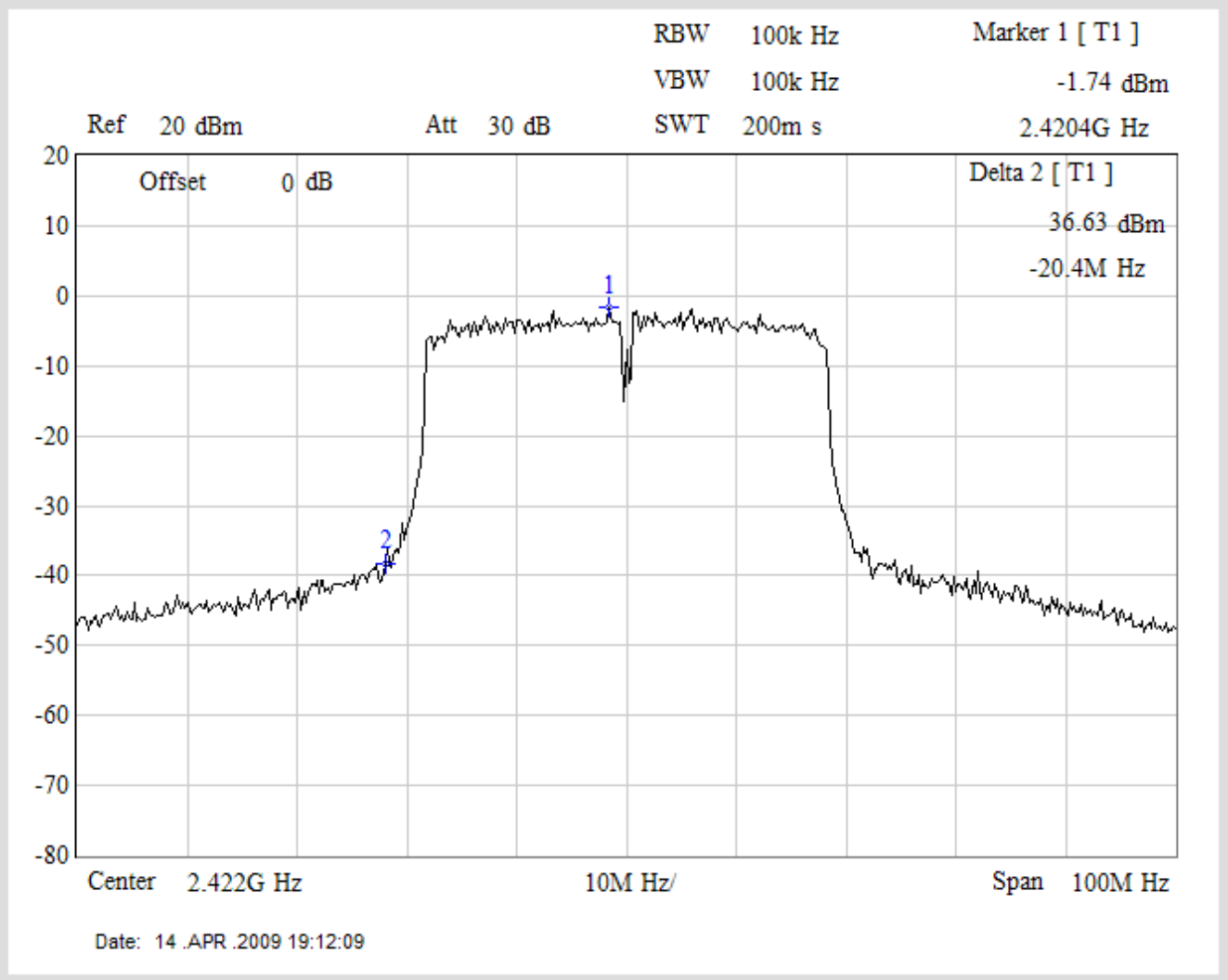


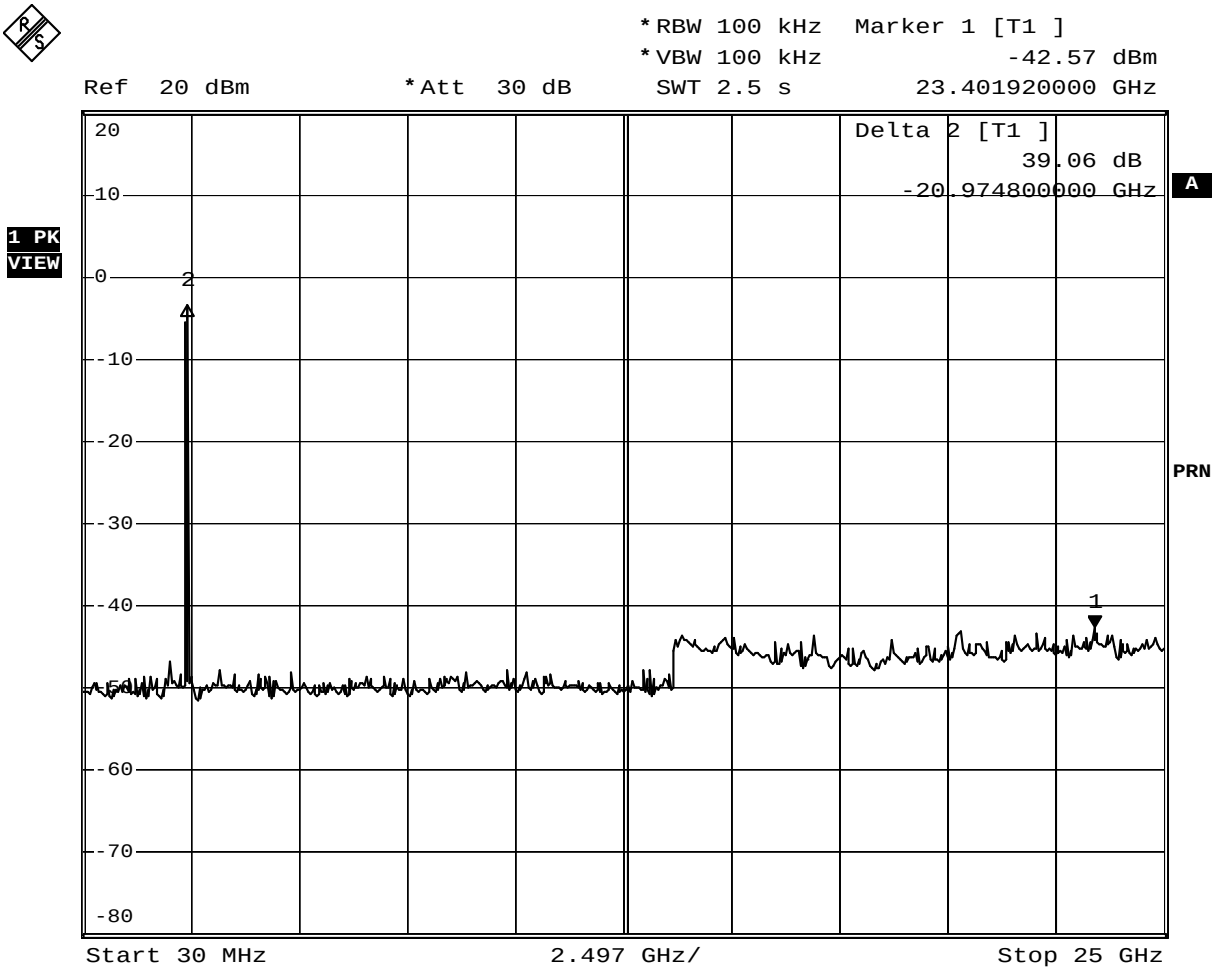
Date: 17.APR.2009 17:15:02

Product	Wireless N Router with All-in-One Printer Server		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2009/04/14	Test Site	No.1 OATS

IEEE 802.11n (ANT B (40MHz)), Antenna Gain: 3.85dBi, Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	36.63	≧ 20	Pass
9	2452	38.19	≧ 20	Pass

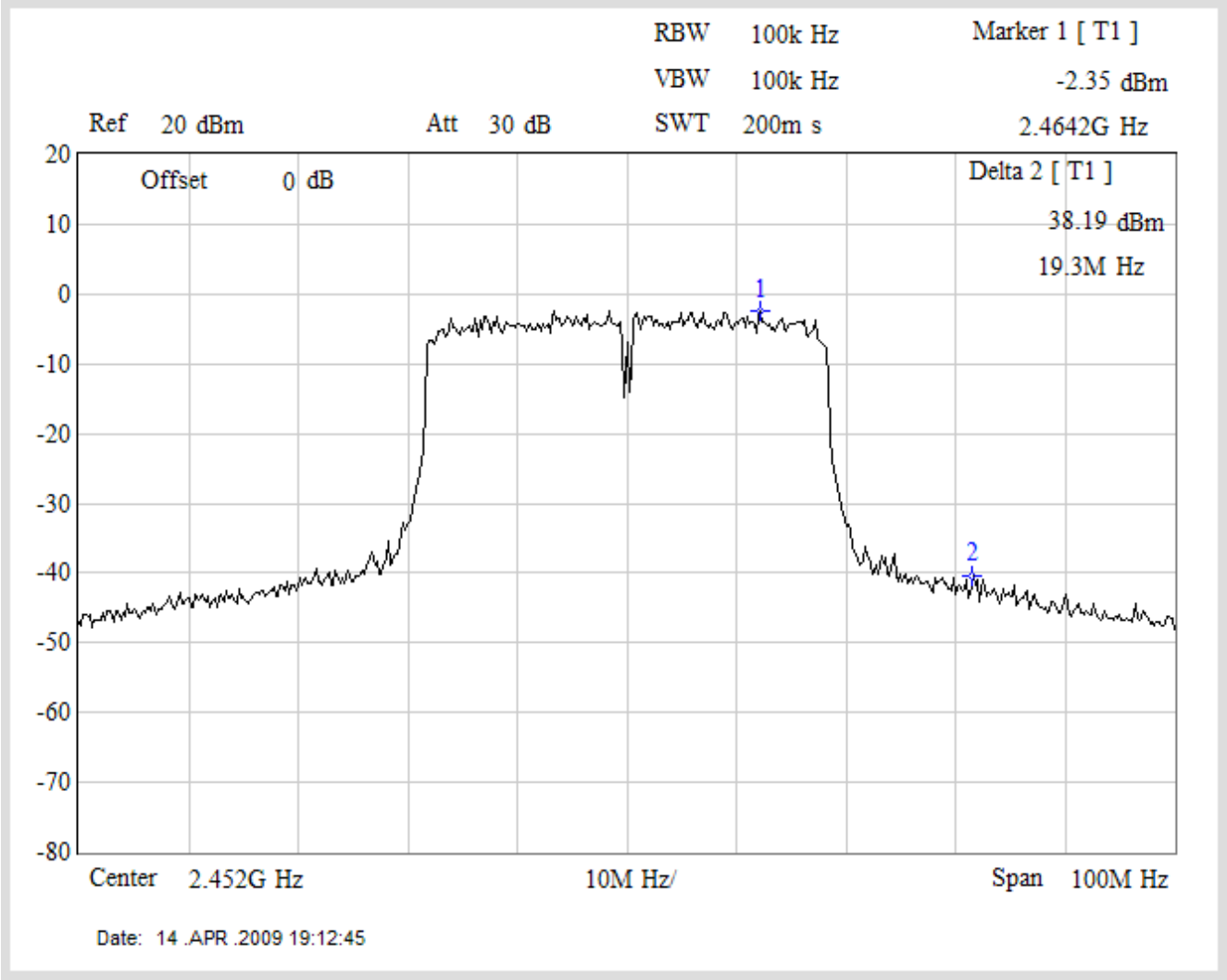
Channel 3 (2422MHz)

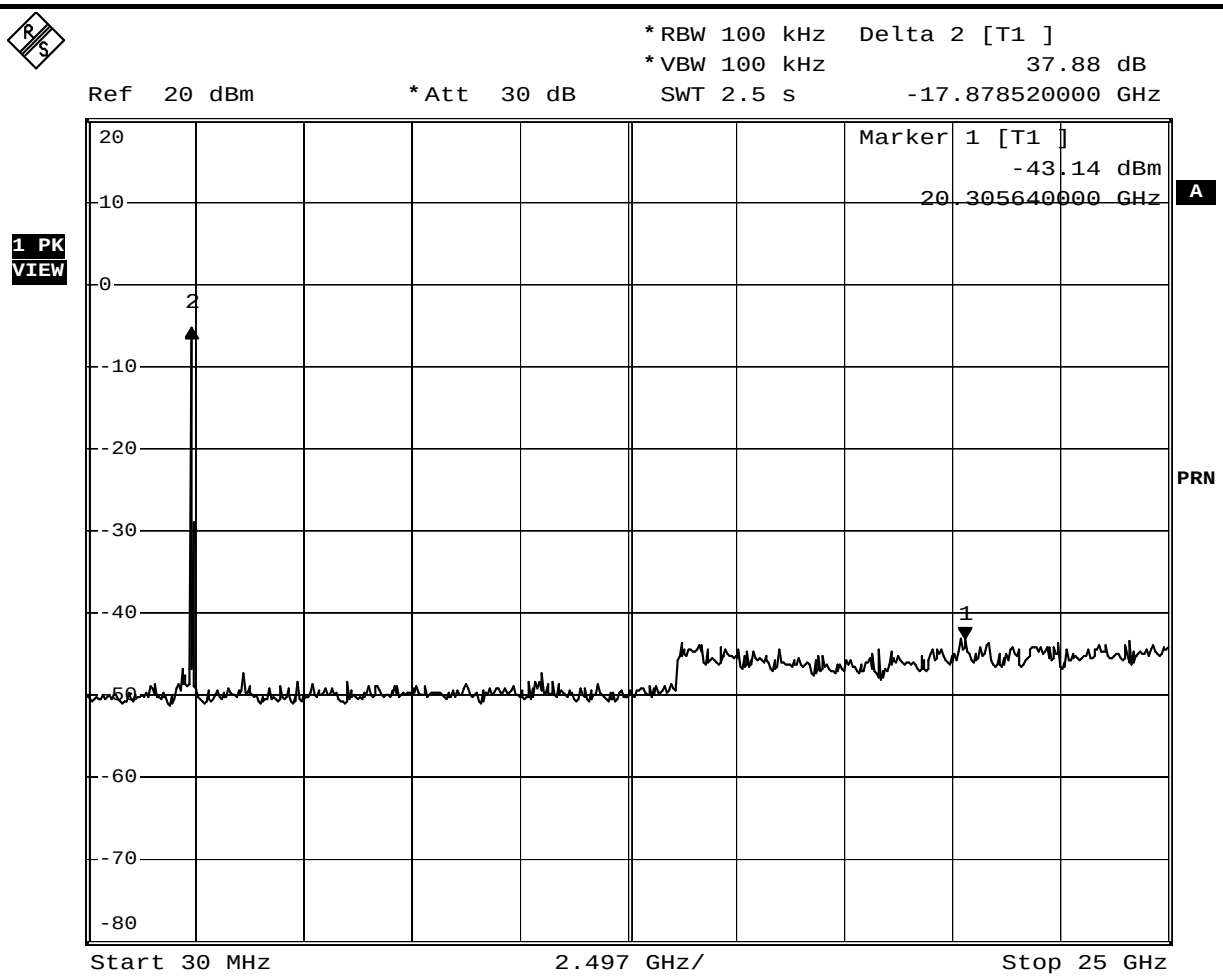




Date: 17.APR.2009 17:12:00

Channel 9 (2452MHz)





Date: 17.APR.2009 17:13:06

6. Radiated Emission Band Edge

6.1. Test Equipment

The following test equipments are used during the test:

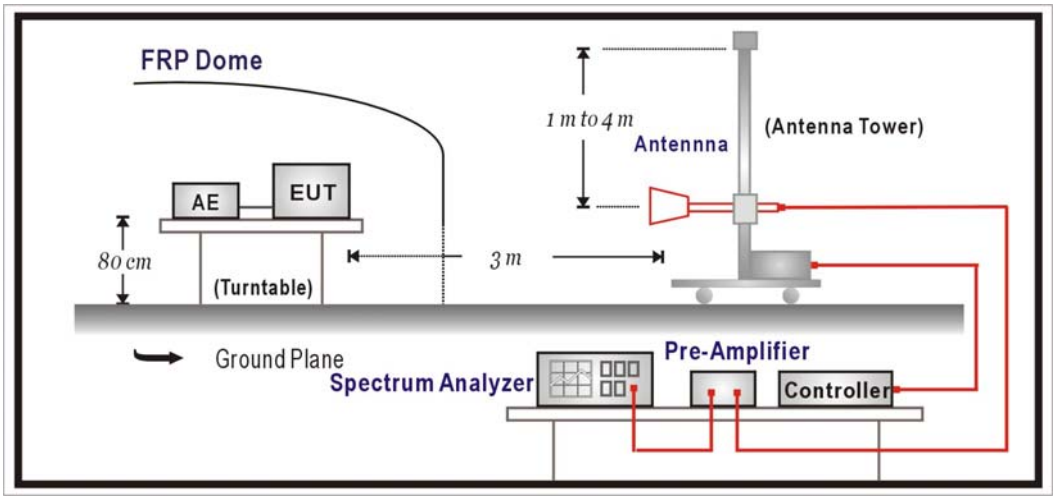
RF Radiated Measurement:					
Item	Equipment		Manufacturer	Model No. / Serial No.	Last Cal.
1	X	Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2008
2	X	Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2009
3		Loop Antenna	R & S	HFH2-Z2 / 833799/004	Sep., 2008
4		BiconiLog Antenna	Schwarzbeck	VULB 9166 / 1061	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

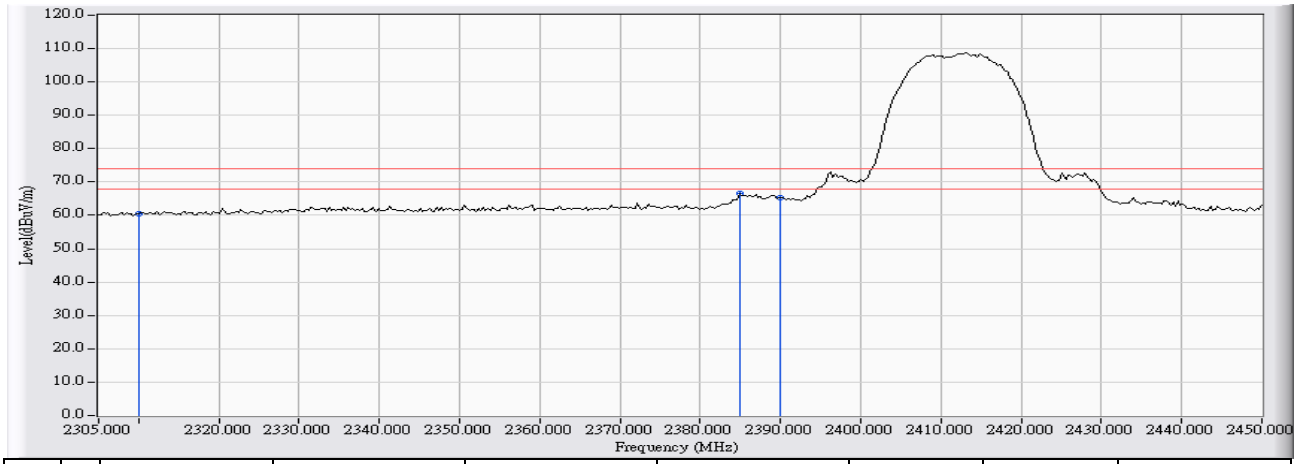
The measurement uncertainty

± 3.9 dB above 1GHz

6.6. Test Result

Radiated is defined as

Site : Site1	**Time : 2009/04/15 - 09:52**
Limit : FCC_15.209(961011)_03M_PK	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-B-2412**

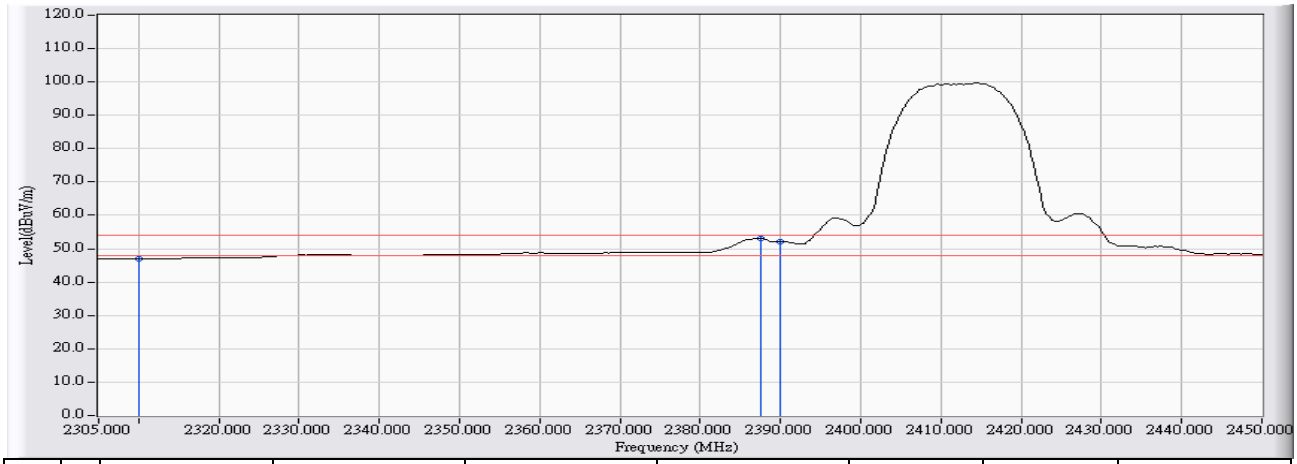


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	32.602	27.904	60.506	-13.494	74.000	PEAK
2	*	2384.910	33.091	33.449	66.541	-7.459	74.000	PEAK
3		2390.000	33.124	32.190	65.314	-8.686	74.000	PEAK

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 : 2009/04/15 - 09:52**
Limit : FCC_15.209(961011)_03M_AV	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-B-2412**

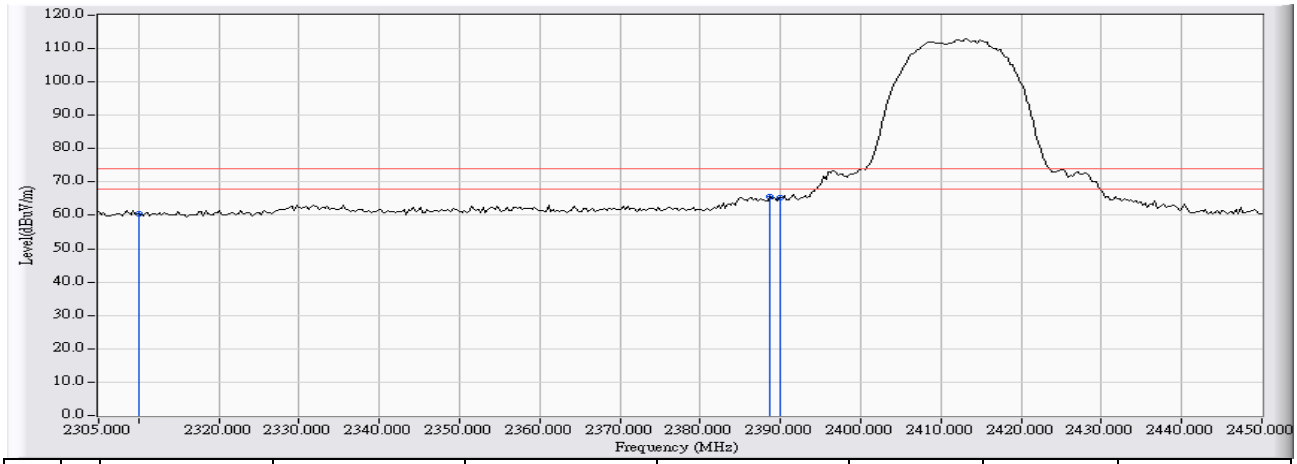


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	32.602	14.406	47.008	-6.992	54.000	AVERAGE
2	*	2387.525	33.109	20.037	53.146	-0.854	54.000	AVERAGE
3		2390.000	33.124	19.133	52.257	-1.743	54.000	AVERAGE

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 : 2009/04/15 - 10:53**
Limit : FCC_15.209(961011)_03M_PK	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-B-2412**

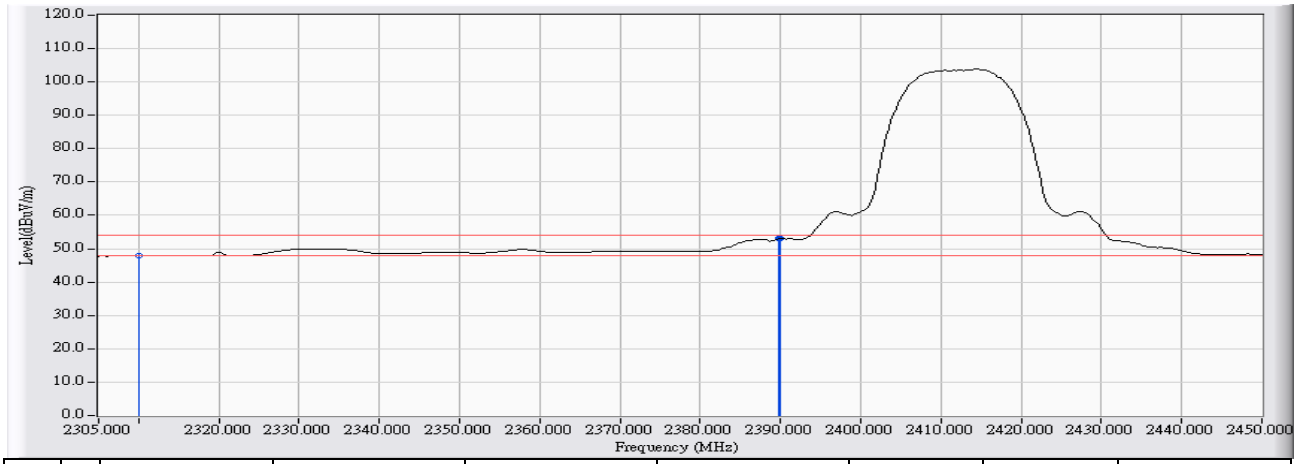


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	33.228	27.117	60.345	-13.655	74.000	PEAK
2	*	2388.687	32.951	32.612	65.563	-8.437	74.000	PEAK
3		2390.000	32.946	32.401	65.347	-8.653	74.000	PEAK

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 : 2009/04/15 - 10:51**
Limit : FCC_15.209(961011)_03M_AV	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-B-2412**

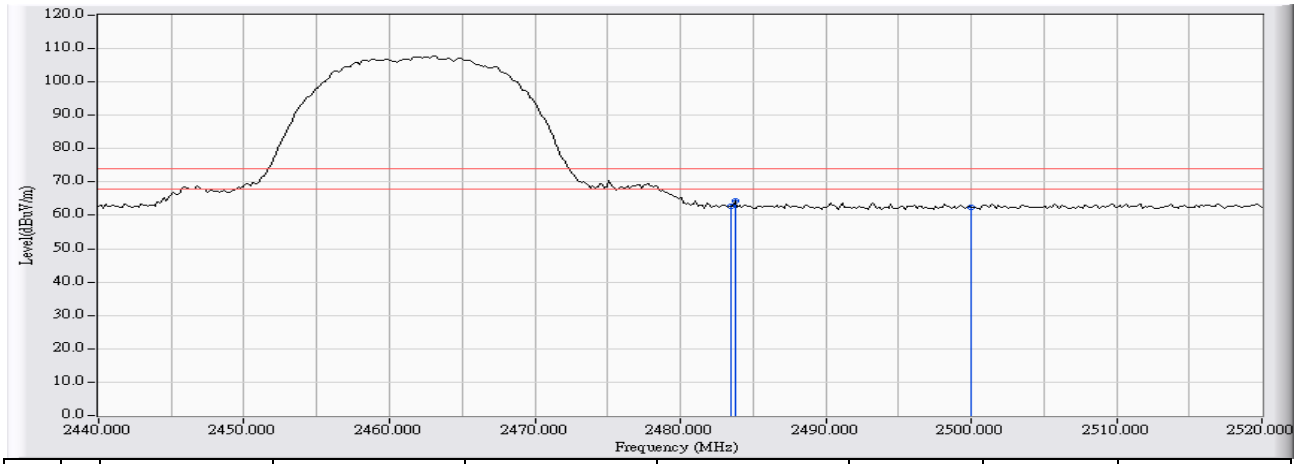


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	33.228	14.583	47.811	-6.189	54.000	AVERAGE
2	*	2389.850	32.947	20.035	52.982	-1.018	54.000	AVERAGE
3		2390.000	32.946	20.056	53.002	-0.998	54.000	AVERAGE

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 : 2009/04/15 - 11:01**
Limit : FCC_15.209(961011)_03M_PK	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-B-2462**

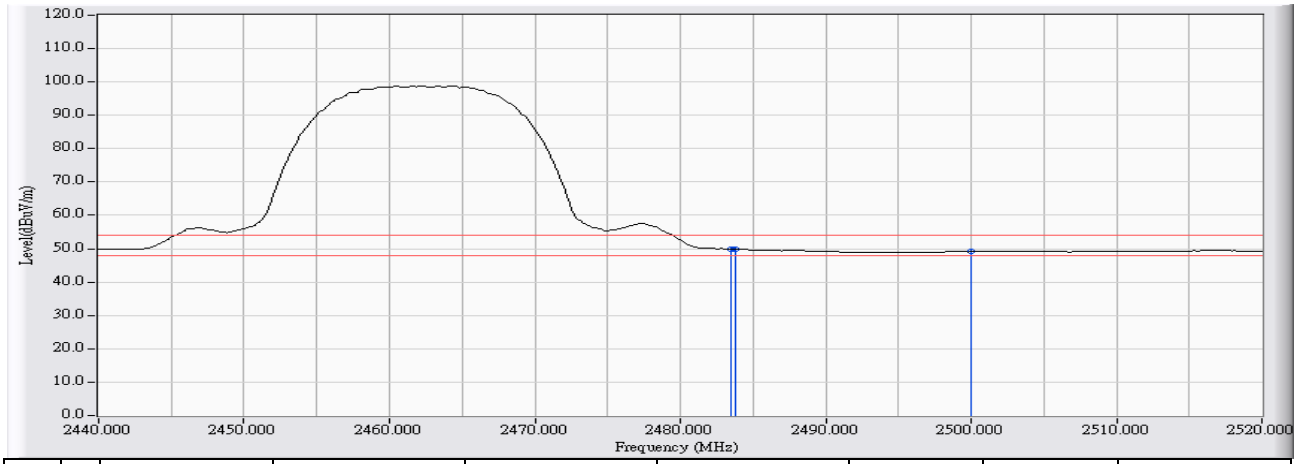


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	33.715	29.049	62.764	-11.236	74.000	PEAK
2	*	2483.768	33.717	30.578	64.295	-9.705	74.000	PEAK
3		2500.000	33.797	28.576	62.373	-11.627	74.000	PEAK

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 : 2009/04/15 - 11:01**
Limit : FCC_15.209(961011)_03M_AV	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-B-2462**

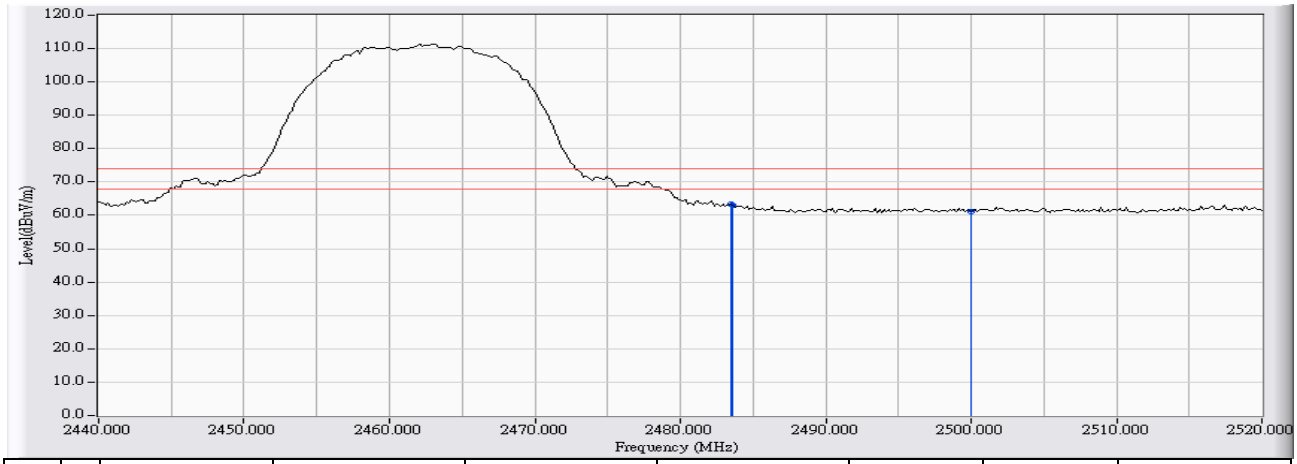


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	33.715	16.237	49.952	-4.048	54.000	AVERAGE
2	*	2483.768	33.717	16.148	49.865	-4.135	54.000	AVERAGE
3		2500.000	33.797	15.288	49.085	-4.915	54.000	AVERAGE

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 : 2009/04/16 - 15:59**
Limit : FCC_15.209(961011)_03M_PK	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-B-2462**

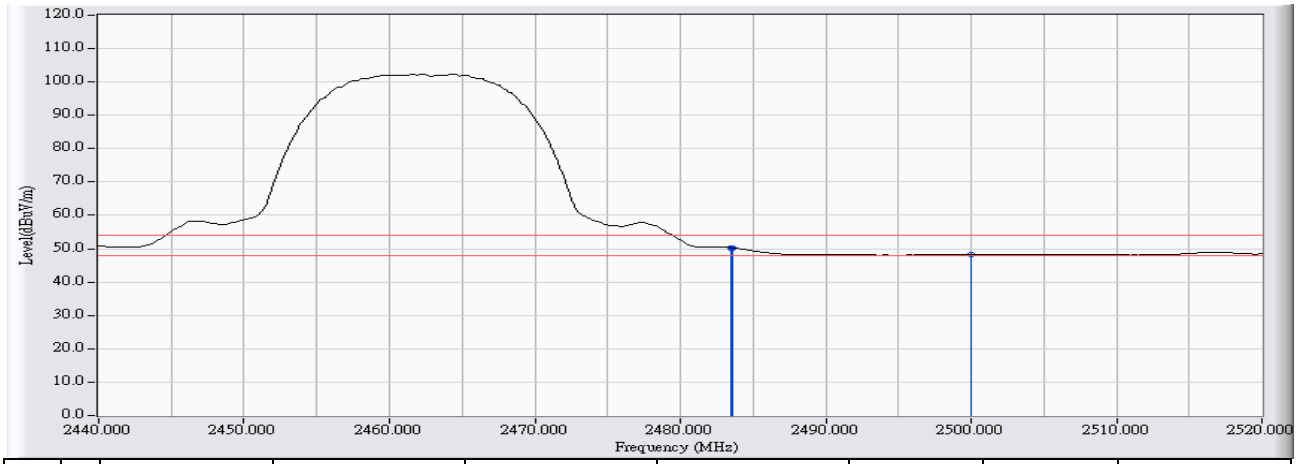


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	32.593	30.785	63.378	-10.622	74.000	PEAK
2	*	2483.607	32.592	30.525	63.118	-10.882	74.000	PEAK
3		2500.000	32.534	28.593	61.126	-12.874	74.000	PEAK

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 : 2009/04/16 - 16:01**
Limit : FCC_15.209(961011)_03M_AV	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-B-2462**

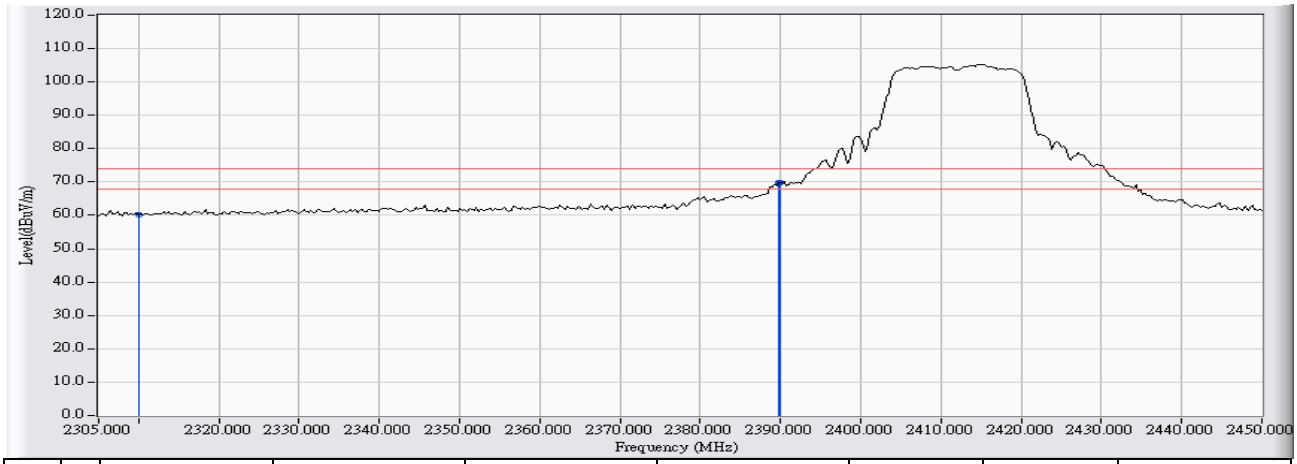


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	32.593	17.691	50.284	-3.716	54.000	AVERAGE
2	*	2483.607	32.592	17.657	50.250	-3.750	54.000	AVERAGE
3		2500.000	32.534	15.821	48.354	-5.646	54.000	AVERAGE

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 : 2009/04/15 - 09:57**
Limit : FCC_15.209(961011)_03M_PK	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-G-2412**

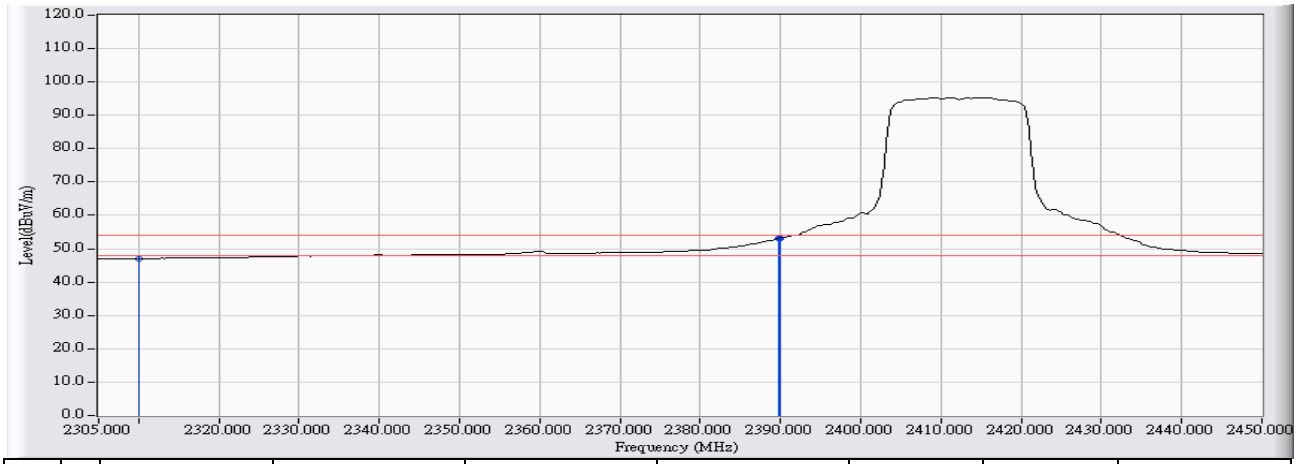


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	32.602	27.399	60.001	-13.999	74.000	PEAK
2	*	2389.850	33.124	36.669	69.792	-4.208	74.000	PEAK
3		2390.000	33.124	36.605	69.729	-4.271	74.000	PEAK

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 : 2009/04/15 - 09:58**
Limit : FCC_15.209(961011)_03M_AV	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-G-2412**

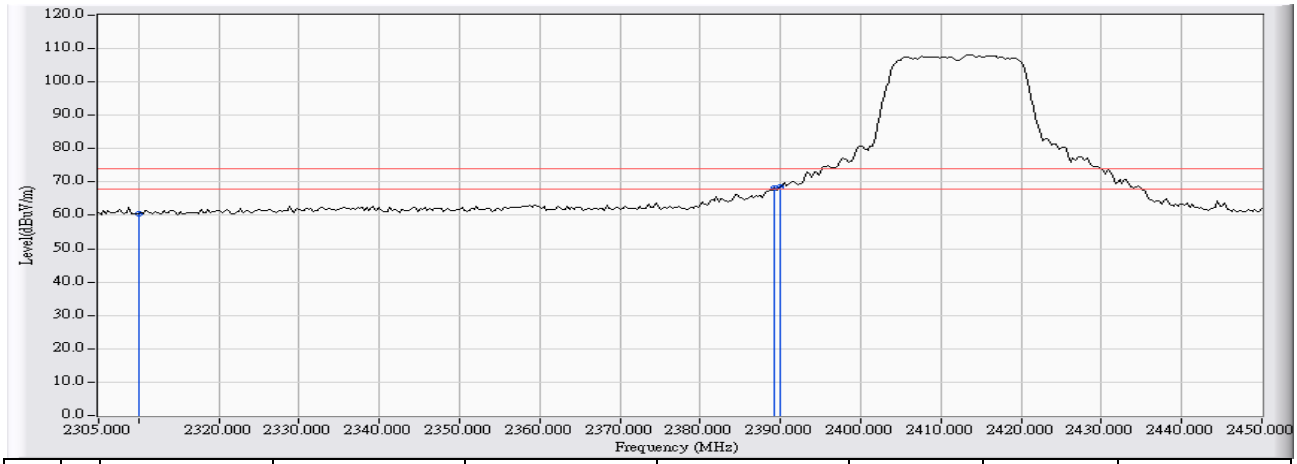


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	32.602	14.454	47.056	-6.944	54.000	AVERAGE
2	*	2389.850	33.124	19.995	53.118	-0.882	54.000	AVERAGE
3		2390.000	33.124	20.081	53.205	-0.795	54.000	AVERAGE

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 : 2009/04/15 - 10:43**
Limit : FCC_15.209(961011)_03M_PK	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-G-2412**

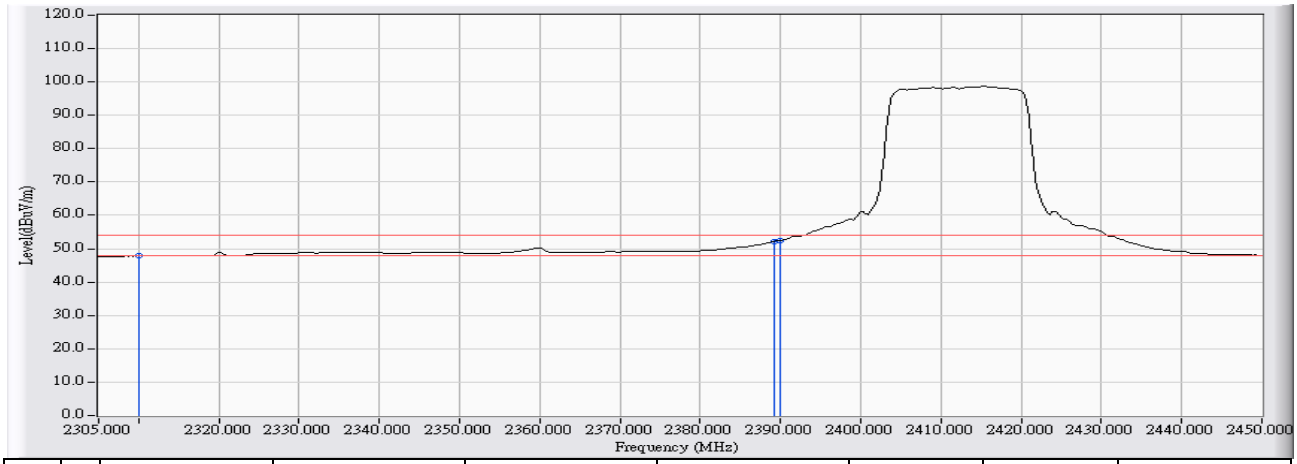


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	33.228	27.363	60.591	-13.409	74.000	PEAK
2	*	2389.269	32.948	35.308	68.257	-5.743	74.000	PEAK
3		2390.000	32.946	35.625	68.571	-5.429	74.000	PEAK

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 : 2009/04/15 - 10:42**
Limit : FCC_15.209(961011)_03M_AV	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-G-2412**

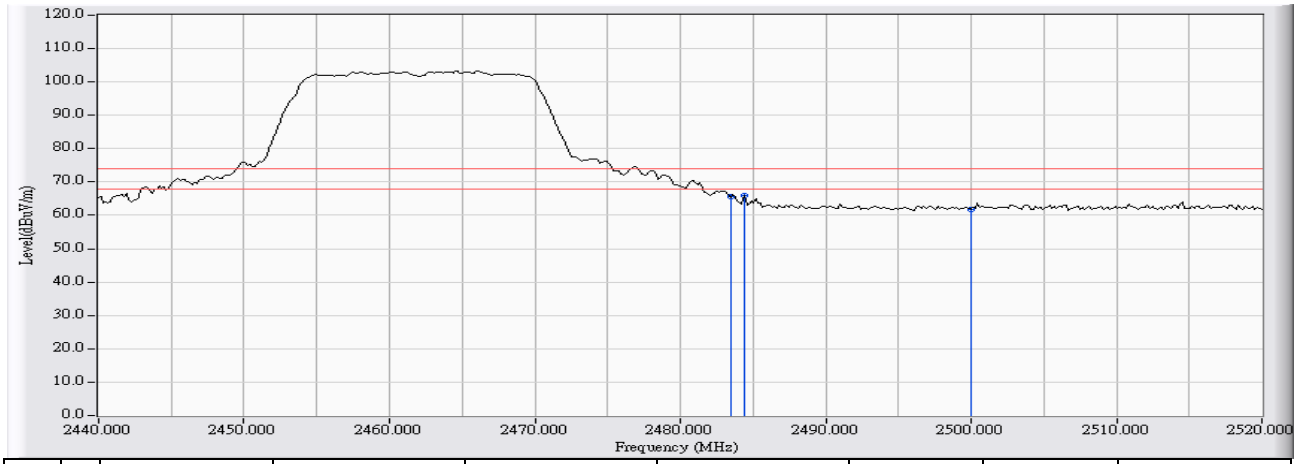


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	33.228	14.564	47.792	-6.208	54.000	AVERAGE
2	*	2389.269	32.948	19.268	52.217	-1.783	54.000	AVERAGE
3		2390.000	32.946	19.467	52.413	-1.587	54.000	AVERAGE

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 : 2009/04/15 - 11:04**
Limit : FCC_15.209(961011)_03M_PK	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-G-2462**

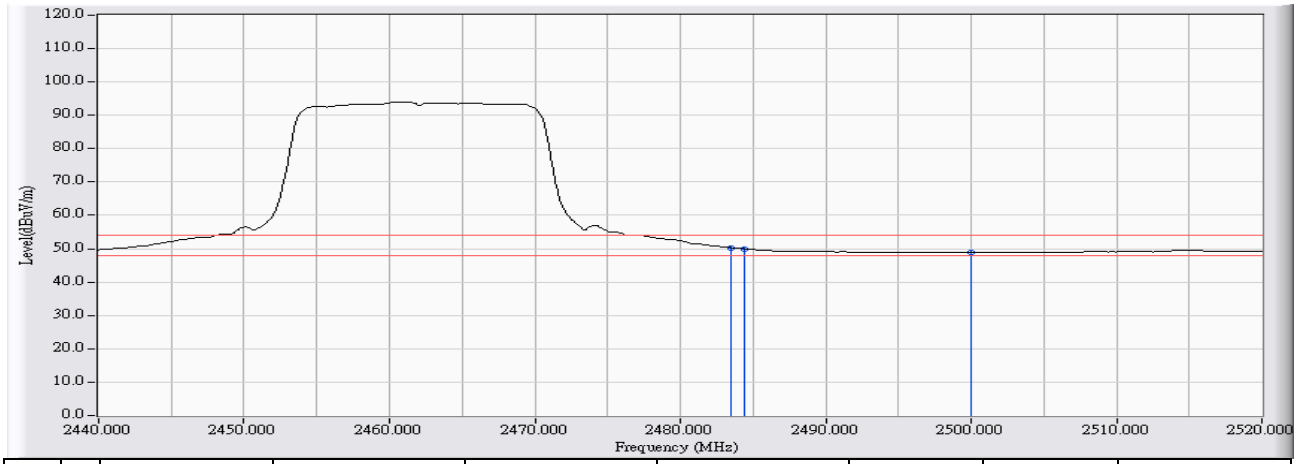


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	33.715	31.976	65.691	-8.309	74.000	PEAK
2	*	2484.409	33.720	32.357	66.077	-7.923	74.000	PEAK
3		2500.000	33.797	28.060	61.857	-12.143	74.000	PEAK

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 : 2009/04/15 - 11:05**
Limit : FCC_15.209(961011)_03M_AV	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-G-2462**

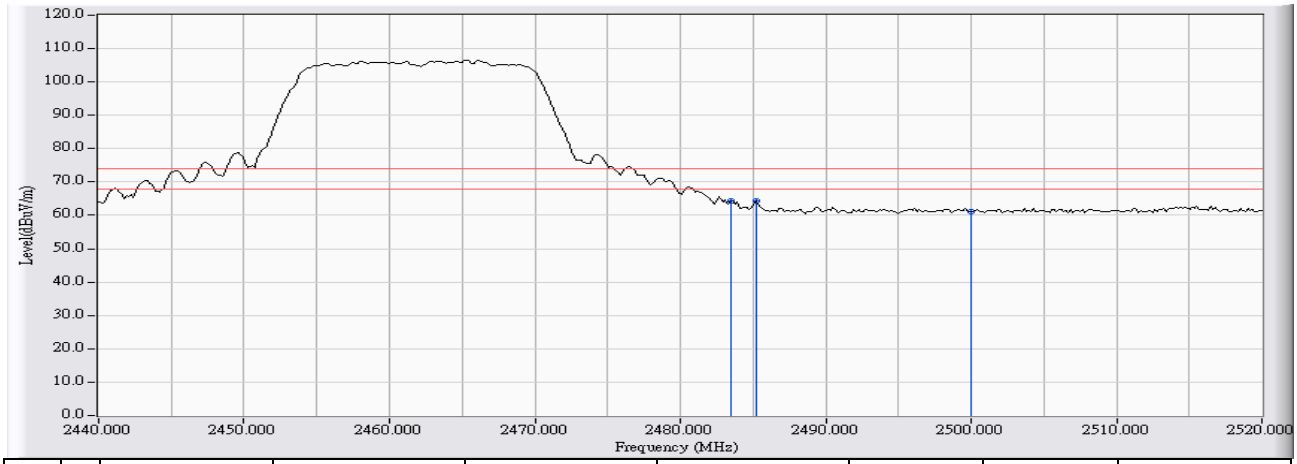


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	33.715	16.619	50.334	-3.666	54.000	AVERAGE
2	*	2484.409	33.720	16.240	49.960	-4.040	54.000	AVERAGE
3		2500.000	33.797	15.202	48.999	-5.001	54.000	AVERAGE

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 : 2009/04/16 - 15:53**
Limit : FCC_15.209(961011)_03M_PK	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-G-2462**

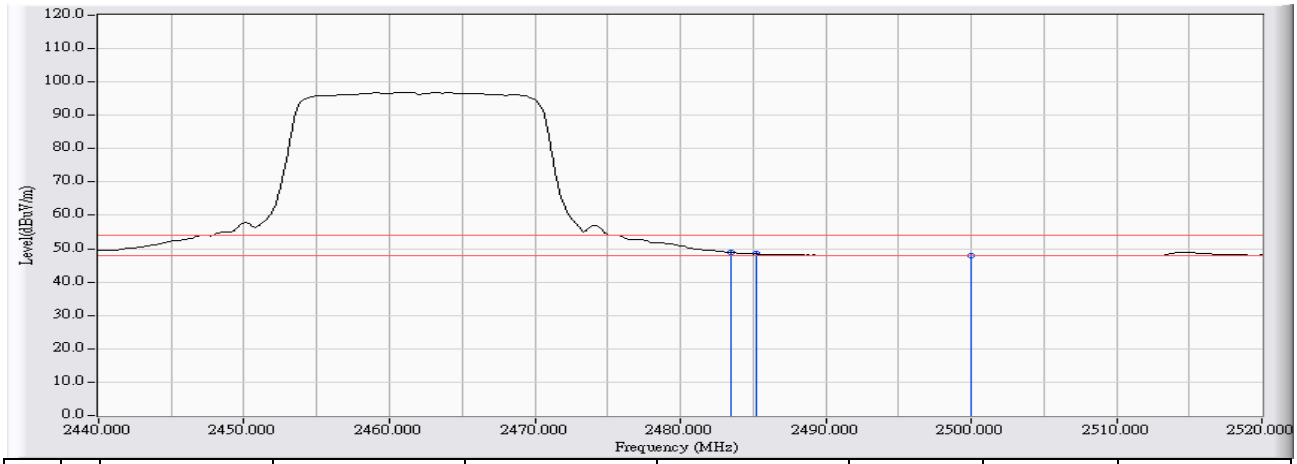


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	32.593	31.709	64.302	-9.698	74.000	PEAK
2	*	2485.210	32.584	31.661	64.245	-9.755	74.000	PEAK
3		2500.000	32.534	28.585	61.118	-12.882	74.000	PEAK

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 : 2009/04/16 - 15:55**
Limit : FCC_15.209(961011)_03M_AV	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-G-2462**

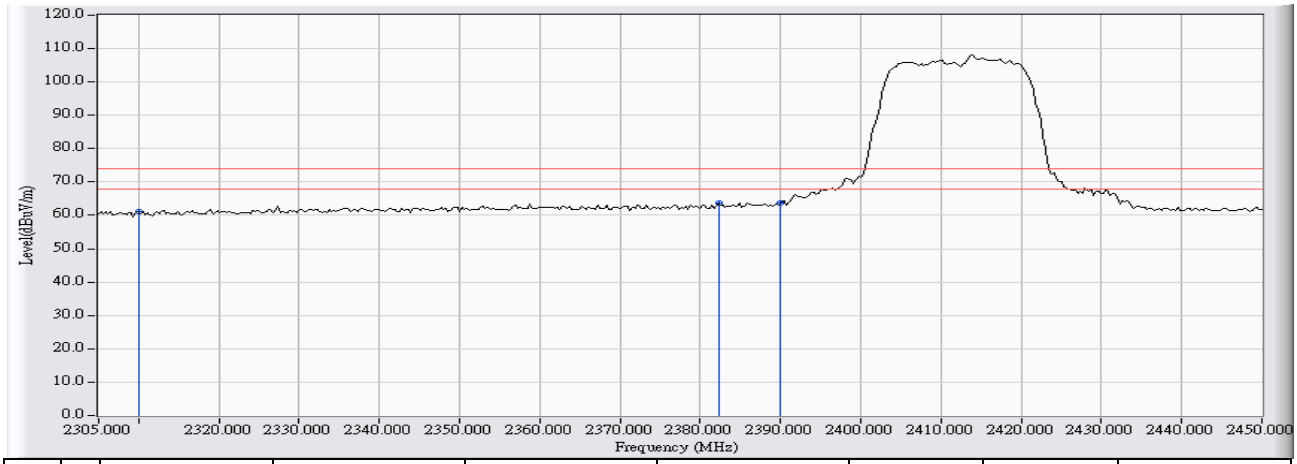


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	32.593	16.235	48.828	-5.172	54.000	AVERAGE
2	*	2485.210	32.584	15.847	48.431	-5.569	54.000	AVERAGE
3		2500.000	32.534	15.476	48.009	-5.991	54.000	AVERAGE

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 : 2009/04/15 - 10:04**
Limit : FCC_15.209(961011)_03M_PK	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-20M-2412**

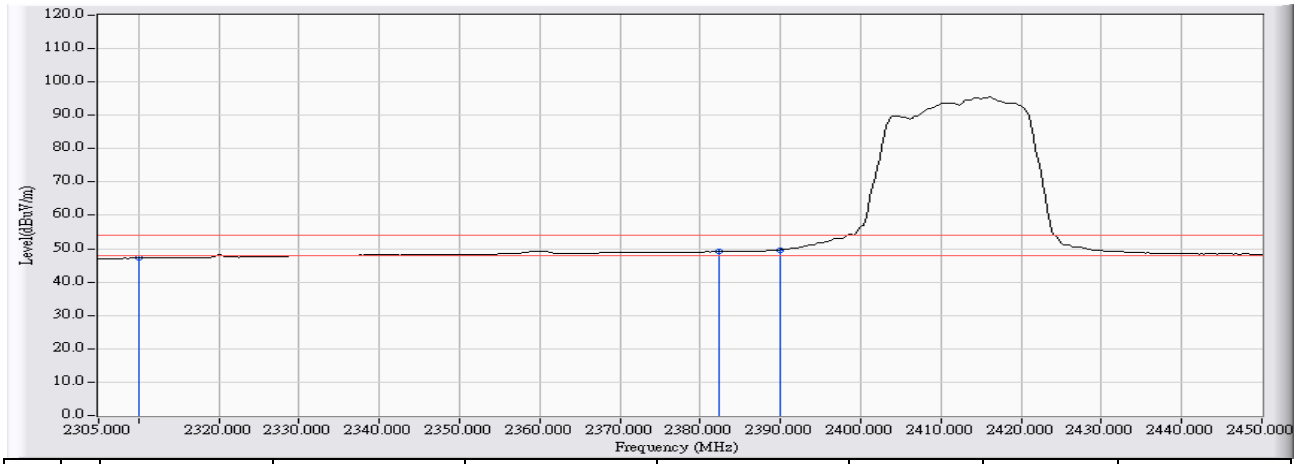


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	32.602	28.370	60.972	-13.028	74.000	PEAK
2	*	2382.295	33.075	30.594	63.669	-10.331	74.000	PEAK
3		2390.000	33.124	30.510	63.634	-10.366	74.000	PEAK

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 : 2009/04/15 - 10:05**
Limit : FCC_15.209(961011)_03M_AV	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-20M-2412**

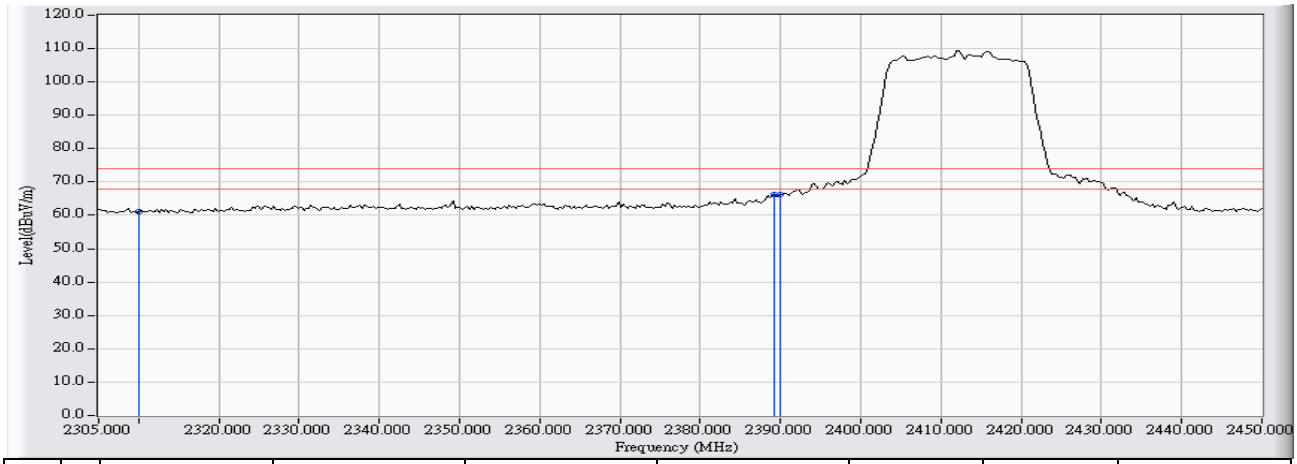


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	32.602	14.549	47.151	-6.849	54.000	AVERAGE
2	*	2382.295	33.075	16.014	49.089	-4.911	54.000	AVERAGE
3		2390.000	33.124	16.558	49.682	-4.318	54.000	AVERAGE

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 : 2009/04/15 - 10:29**
Limit : FCC_15.209(961011)_03M_PK	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-20M-2412**

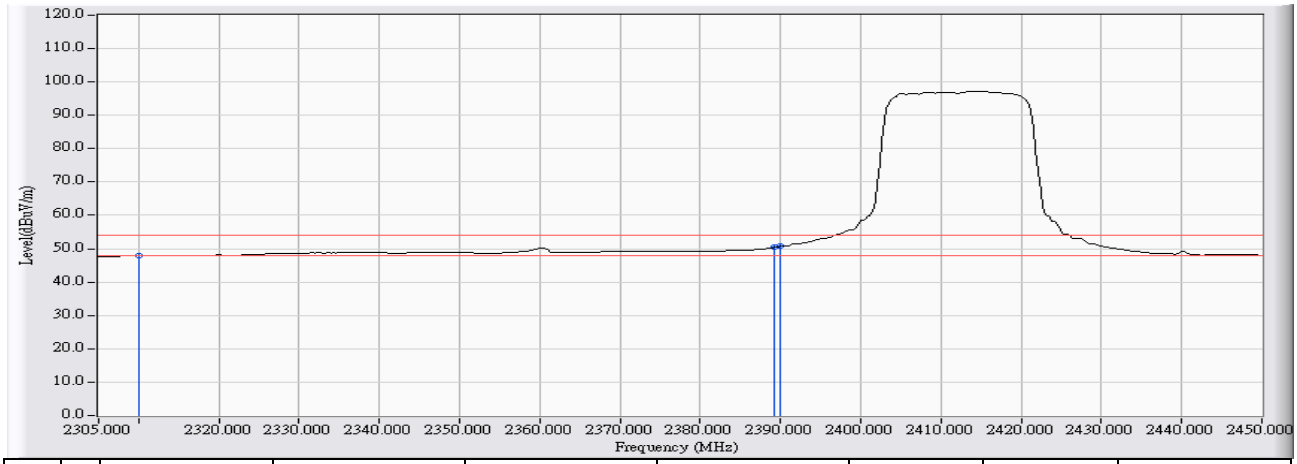


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	33.228	27.751	60.979	-13.021	74.000	PEAK
2	*	2389.269	32.948	33.352	66.301	-7.699	74.000	PEAK
3		2390.000	32.946	33.179	66.125	-7.875	74.000	PEAK

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 : 2009/04/15 - 10:30**
Limit : FCC_15.209(961011)_03M_AV	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-20M-2412**

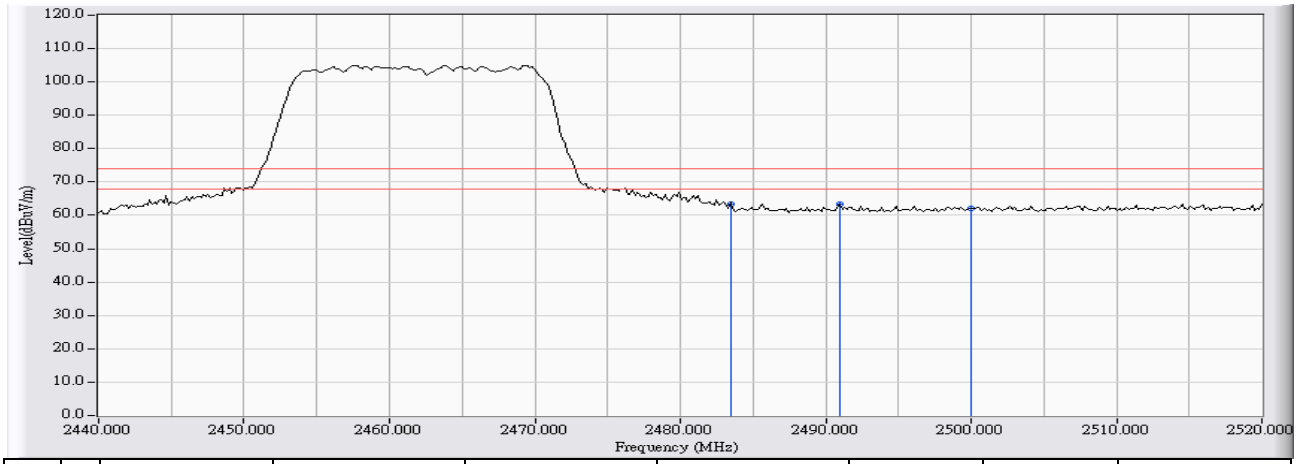


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	33.228	14.570	47.798	-6.202	54.000	AVERAGE
2	*	2389.269	32.948	17.407	50.356	-3.644	54.000	AVERAGE
3		2390.000	32.946	17.748	50.694	-3.306	54.000	AVERAGE

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 : 2009/04/15 - 11:06**
Limit : FCC_15.209(961011)_03M_PK	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-20M-2462**

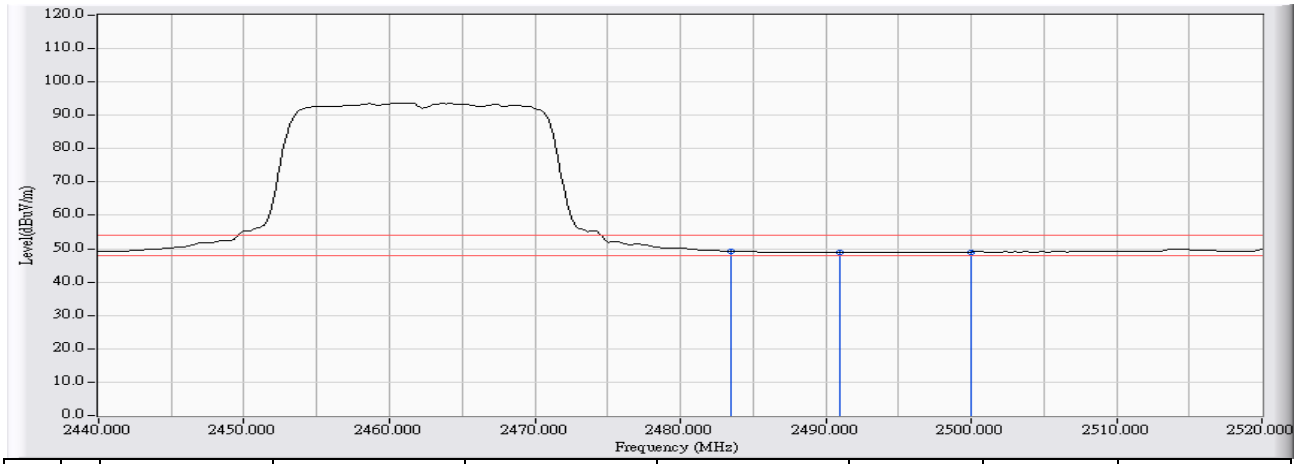


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	33.715	29.677	63.392	-10.608	74.000	PEAK
2	*	2490.982	33.752	29.587	63.339	-10.661	74.000	PEAK
3		2500.000	33.797	28.175	61.972	-12.028	74.000	PEAK

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 : 2009/04/15 - 11:07**
Limit : FCC_15.209(961011)_03M_AV	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-20M-2462**

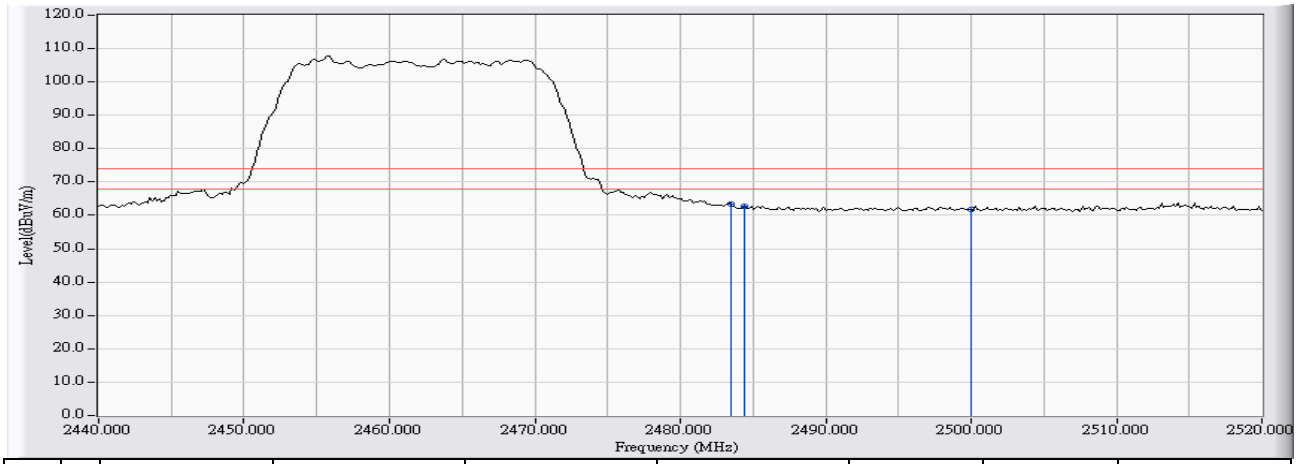


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	33.715	15.592	49.307	-4.693	54.000	AVERAGE
2	*	2490.982	33.752	15.255	49.007	-4.993	54.000	AVERAGE
3		2500.000	33.797	15.261	49.058	-4.942	54.000	AVERAGE

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 : 2009/04/16 - 15:46**
Limit : FCC_15.209(961011)_03M_PK	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-20M-2462**

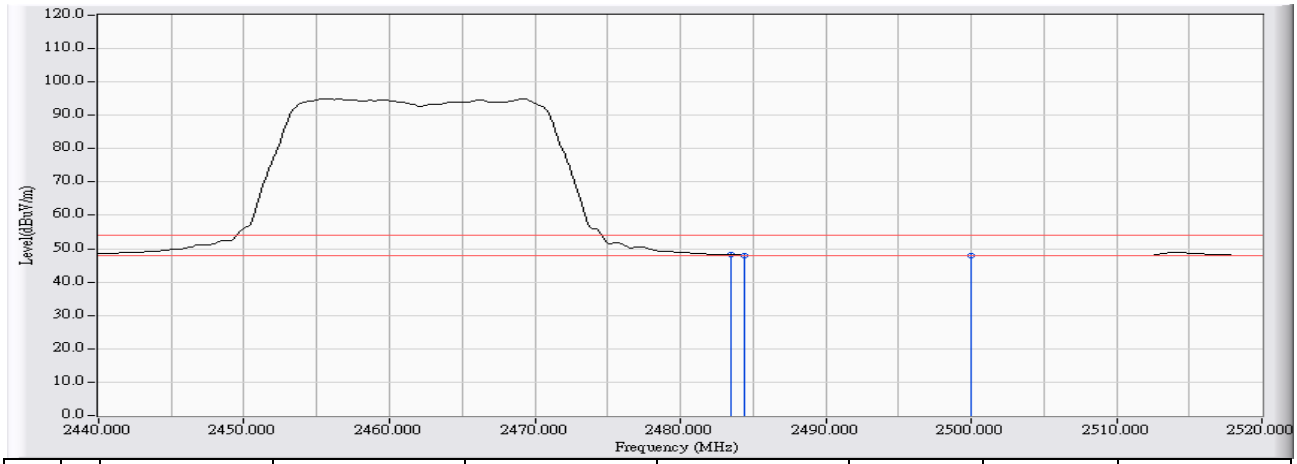


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	32.593	30.654	63.247	-10.753	74.000	PEAK
2	*	2484.409	32.588	30.277	62.865	-11.135	74.000	PEAK
3		2500.000	32.534	29.204	61.737	-12.263	74.000	PEAK

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 : 2009/04/16 - 15:47**
Limit : FCC_15.209(961011)_03M_AV	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-20M-2462**

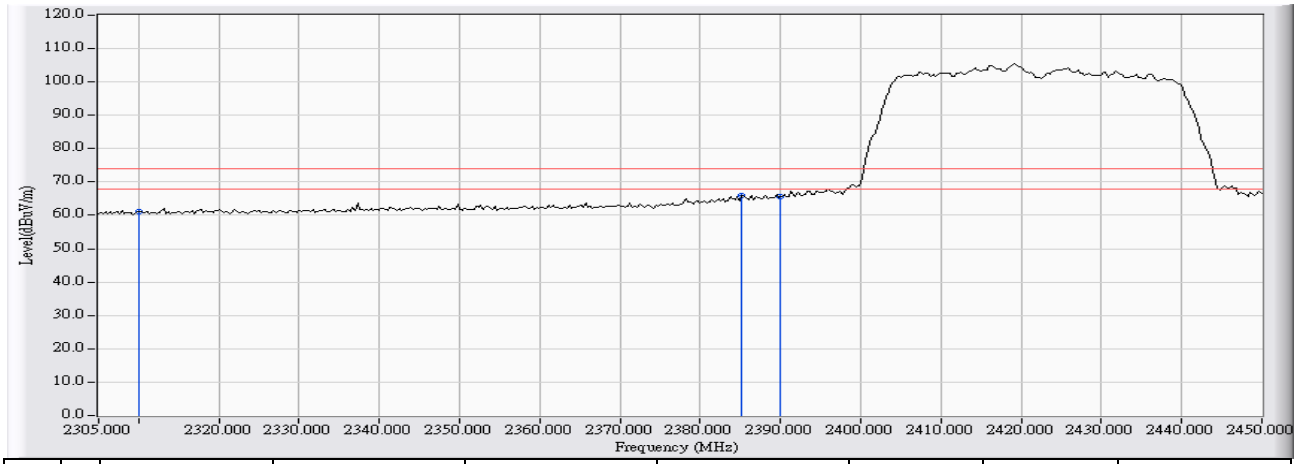


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	32.593	15.550	48.143	-5.857	54.000	AVERAGE
2	*	2484.409	32.588	15.484	48.072	-5.928	54.000	AVERAGE
3		2500.000	32.534	15.423	47.956	-6.044	54.000	AVERAGE

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 : 2009/04/15 - 10:11**
Limit : FCC_15.209(961011)_03M_PK	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-40M-2422**

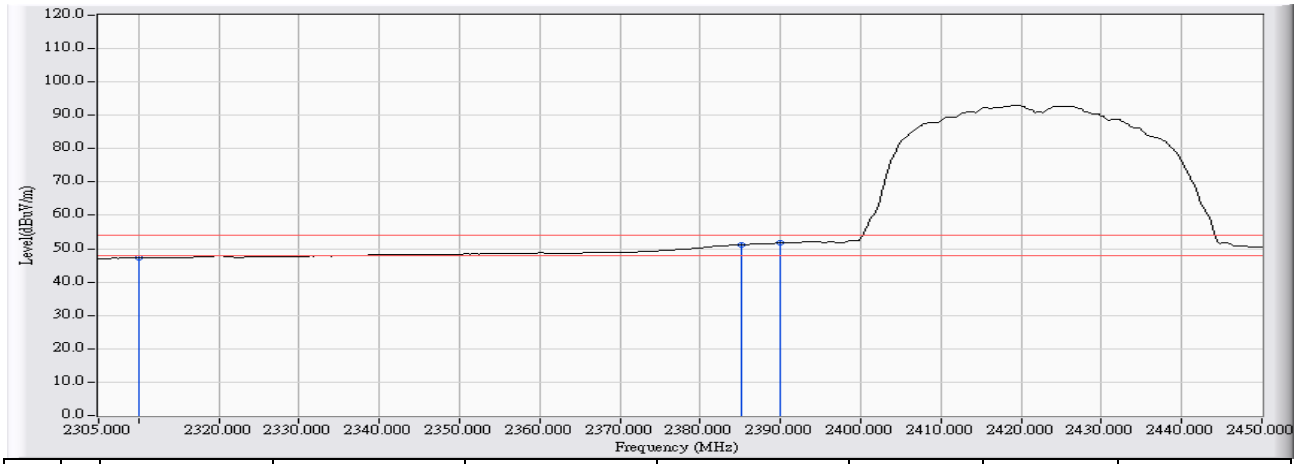


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	32.602	28.501	61.103	-12.897	74.000	PEAK
2	*	2385.200	33.094	32.878	65.972	-8.028	74.000	PEAK
3		2390.000	33.124	32.399	65.523	-8.477	74.000	PEAK

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 : 2009/04/15 - 10:13**
Limit : FCC_15.209(961011)_03M_AV	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-40M-2422**

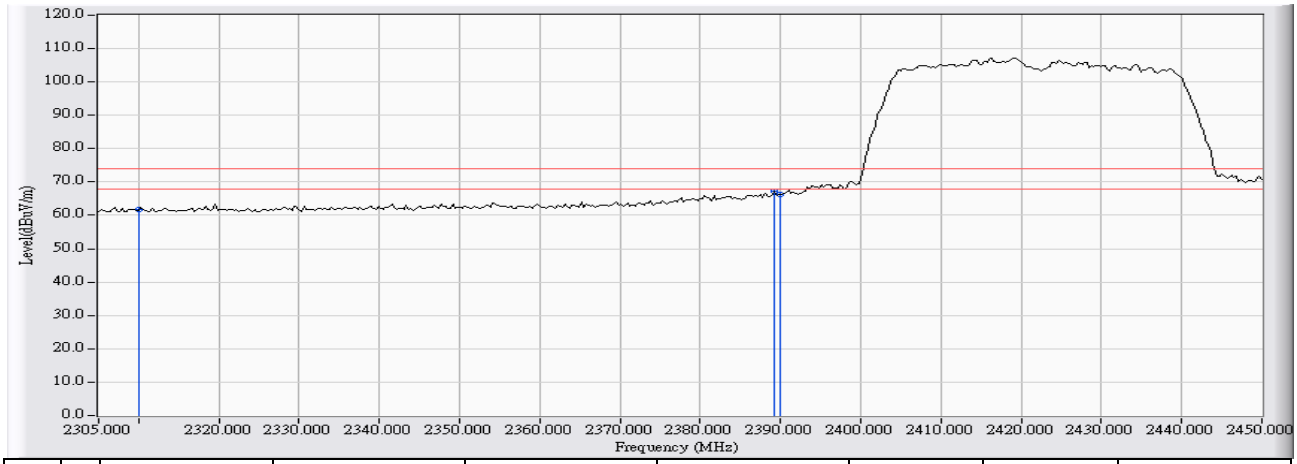


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	32.602	14.603	47.205	-6.795	54.000	AVERAGE
2	*	2385.200	33.094	18.115	51.209	-2.791	54.000	AVERAGE
3		2390.000	33.124	18.538	51.662	-2.338	54.000	AVERAGE

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 : 2009/04/15 - 10:19**
Limit : FCC_15.209(961011)_03M_PK	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-40M-2422**

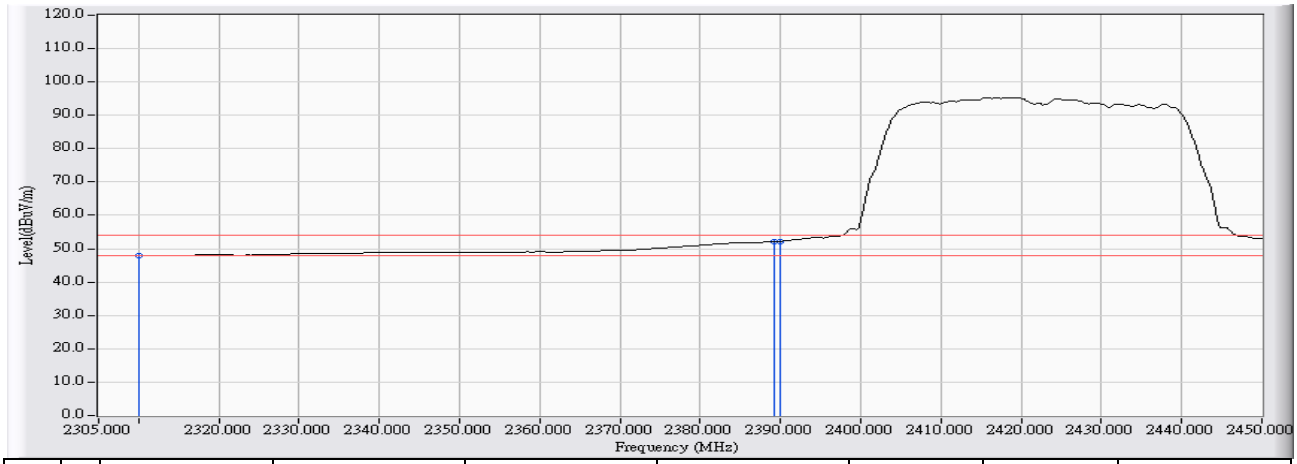


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	33.228	28.385	61.613	-12.387	74.000	PEAK
2	*	2389.269	32.948	34.196	67.145	-6.855	74.000	PEAK
3		2390.000	32.946	33.355	66.301	-7.699	74.000	PEAK

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 : 2009/04/15 - 10:20**
Limit : FCC_15.209(961011)_03M_AV	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-40M-2422**

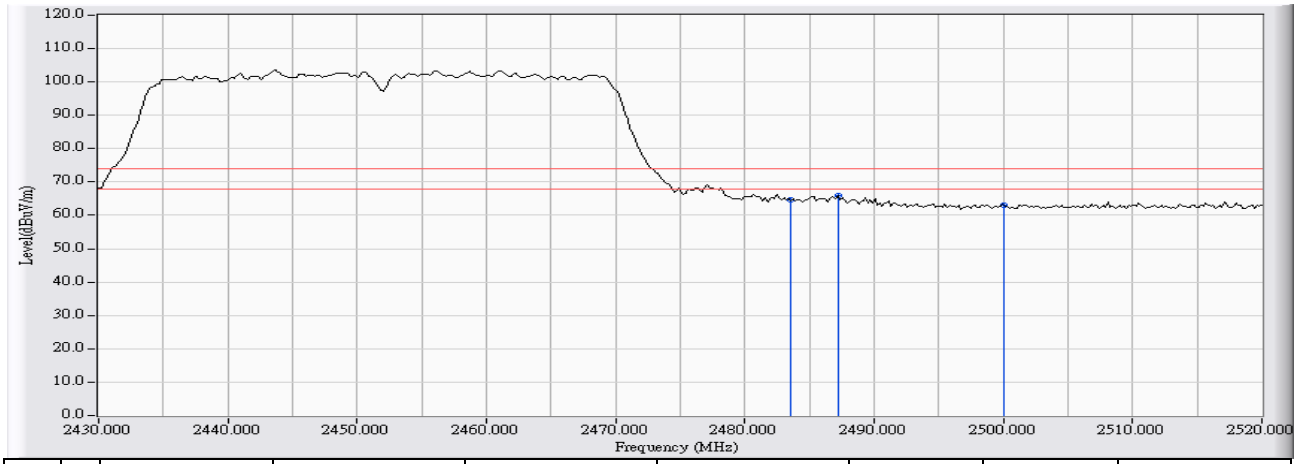


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	33.228	14.787	48.015	-5.985	54.000	AVERAGE
2	*	2389.269	32.948	19.223	52.172	-1.828	54.000	AVERAGE
3		2390.000	32.946	19.293	52.239	-1.761	54.000	AVERAGE

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 : 2009/04/16 - 15:17**
Limit : FCC_15.209(961011)_03M_PK	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-40M-2452**

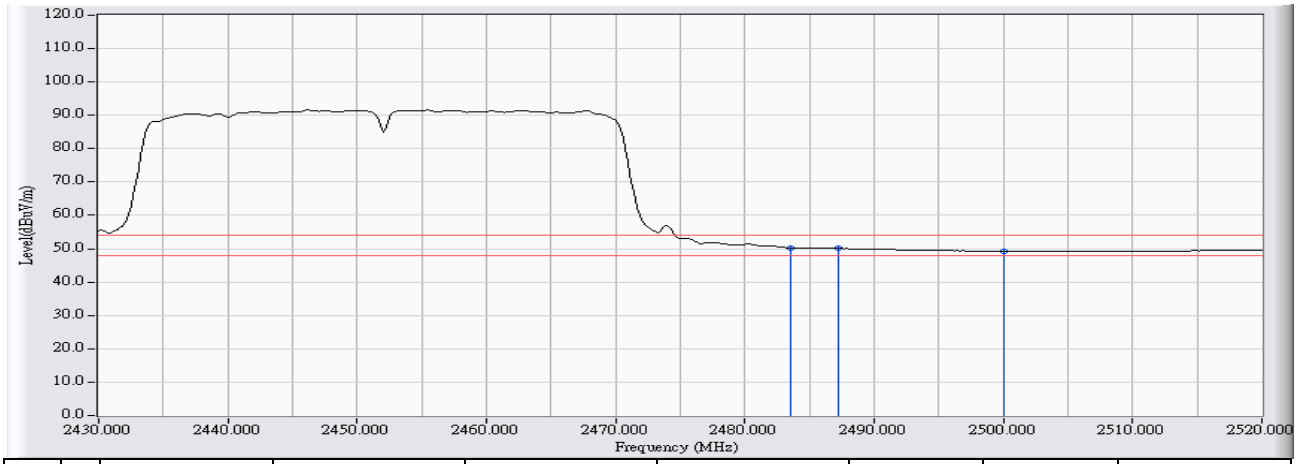


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	33.715	30.914	64.629	-9.371	74.000	PEAK
2	*	2487.174	33.733	32.266	65.999	-8.001	74.000	PEAK
3		2500.000	33.797	29.404	63.201	-10.799	74.000	PEAK

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 : 2009/04/16 - 15:18**
Limit : FCC_15.209(961011)_03M_AV	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-40M-2452**

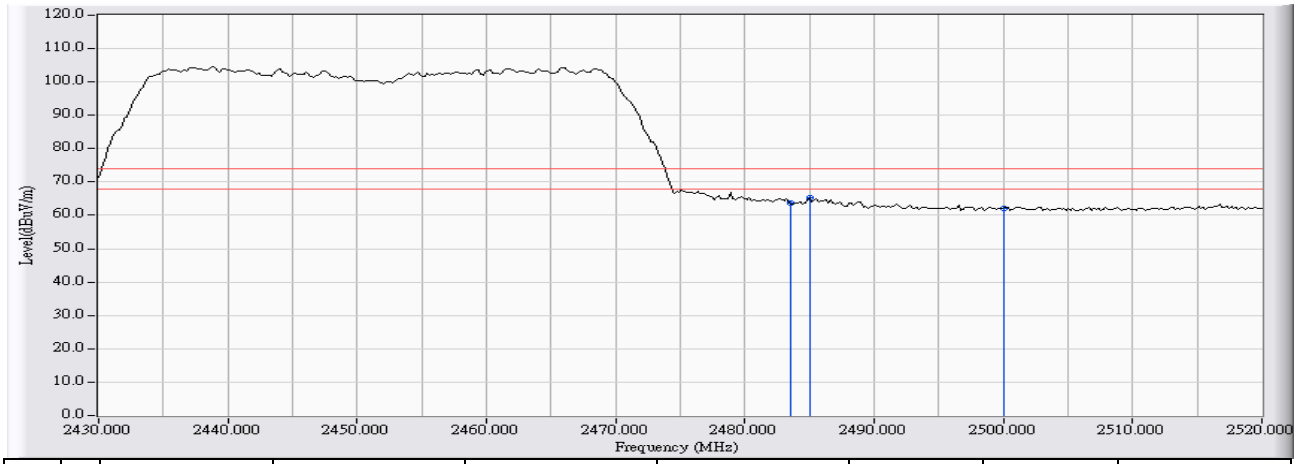


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	33.715	16.546	50.261	-3.739	54.000	AVERAGE
2	*	2487.174	33.733	16.366	50.099	-3.901	54.000	AVERAGE
3		2500.000	33.797	15.496	49.293	-4.707	54.000	AVERAGE

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 : 2009/04/16 - 15:32**
Limit : FCC_15.209(961011)_03M_PK	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-40M-2452**

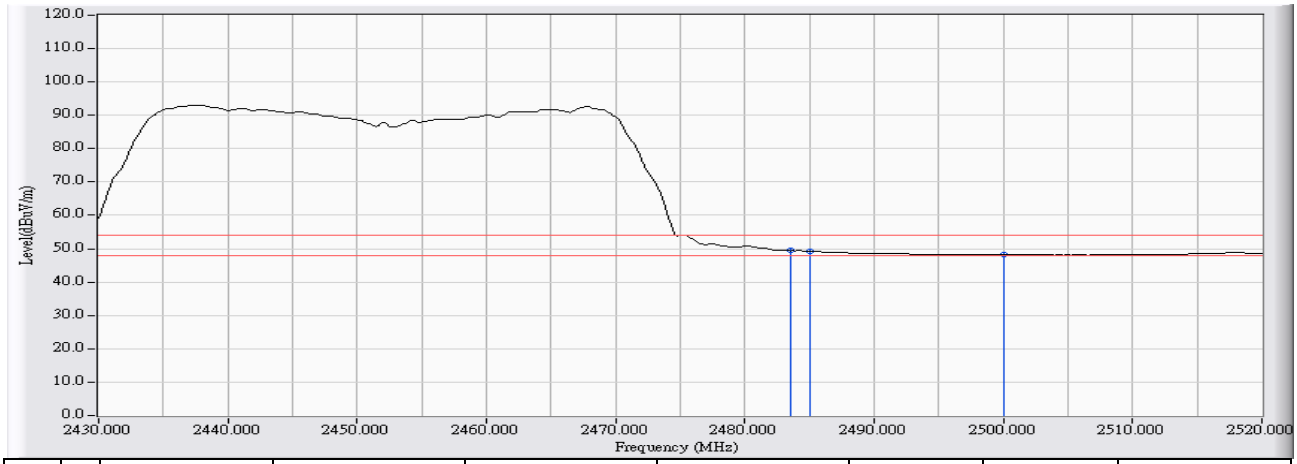


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	32.593	31.001	63.594	-10.406	74.000	PEAK
2	*	2485.010	32.585	32.807	65.392	-8.608	74.000	PEAK
3		2500.000	32.534	29.717	62.250	-11.750	74.000	PEAK

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 : 2009/04/16 - 15:32**
Limit : FCC_15.209(961011)_03M_AV	**Margin : 6**
Probe : Site1_FCC_1-18G(2009-01) - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless N Router with All-in-One Printer Server	**Note : TX-40M-2452**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	32.593	16.812	49.405	-4.595	54.000	AVERAGE
2	*	2485.010	32.585	16.781	49.366	-4.634	54.000	AVERAGE
3		2500.000	32.534	15.682	48.215	-5.785	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

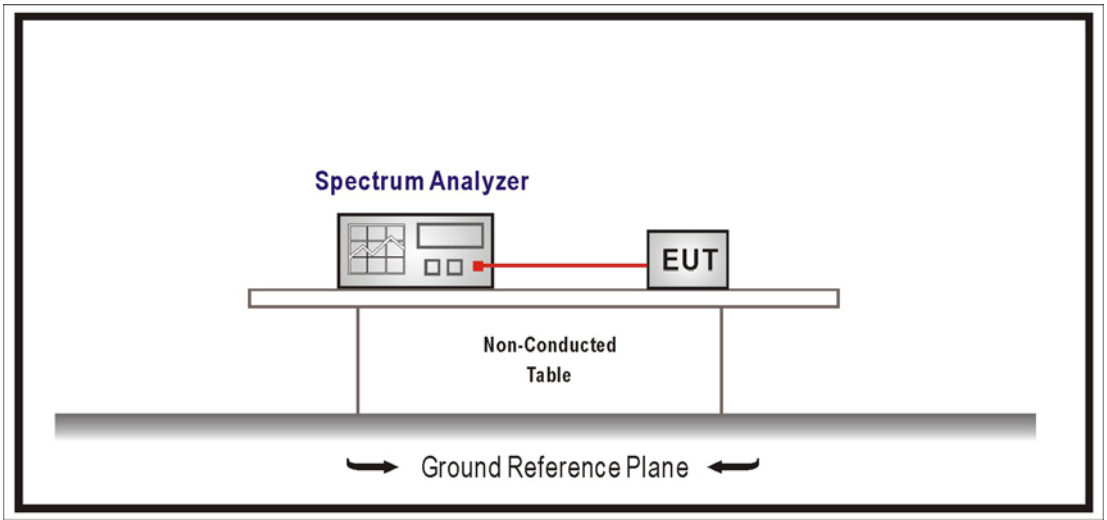
7.1. Test Equipment

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	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.

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

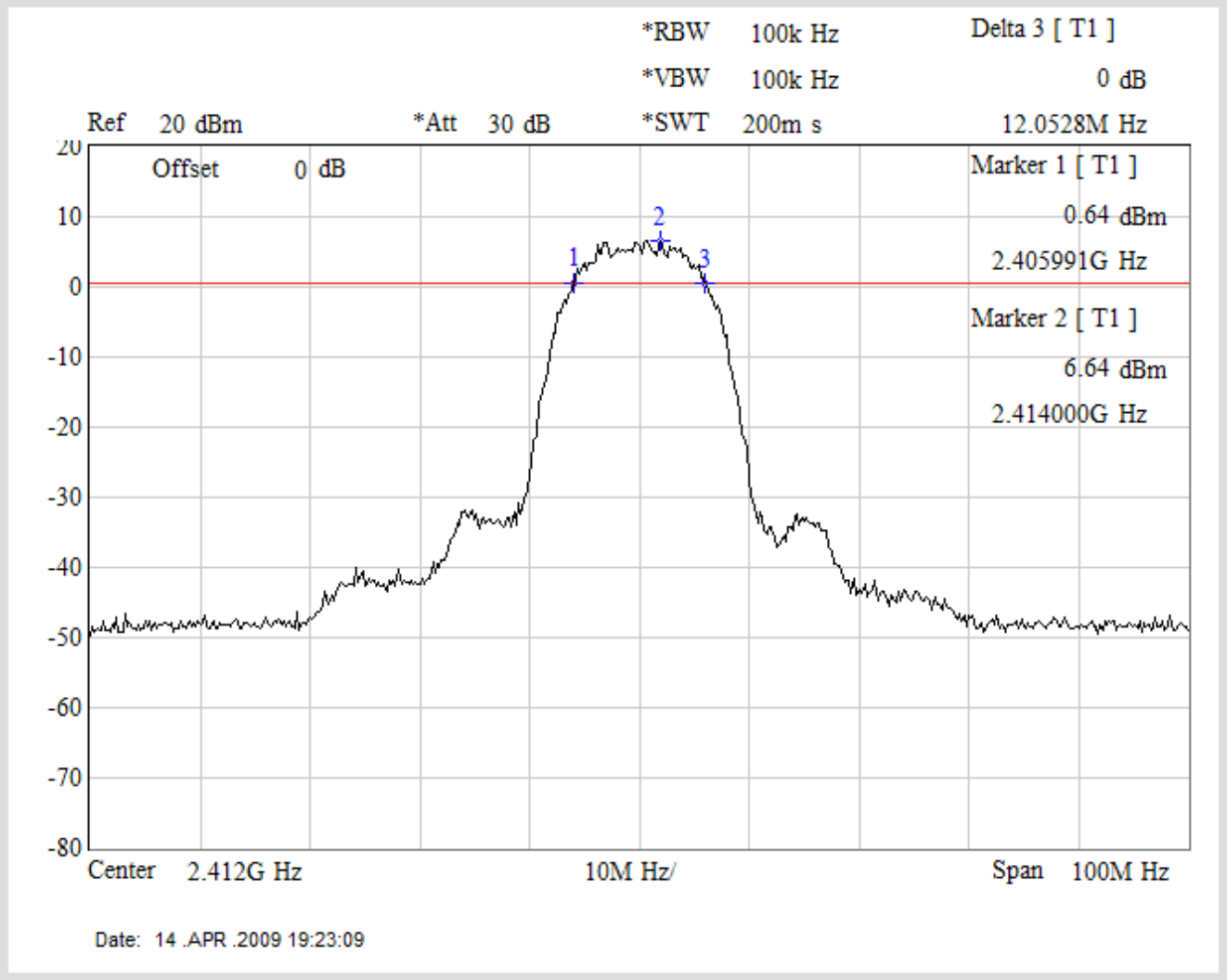
The measurement uncertainty is defined as ±150Hz

7.6. Test Result

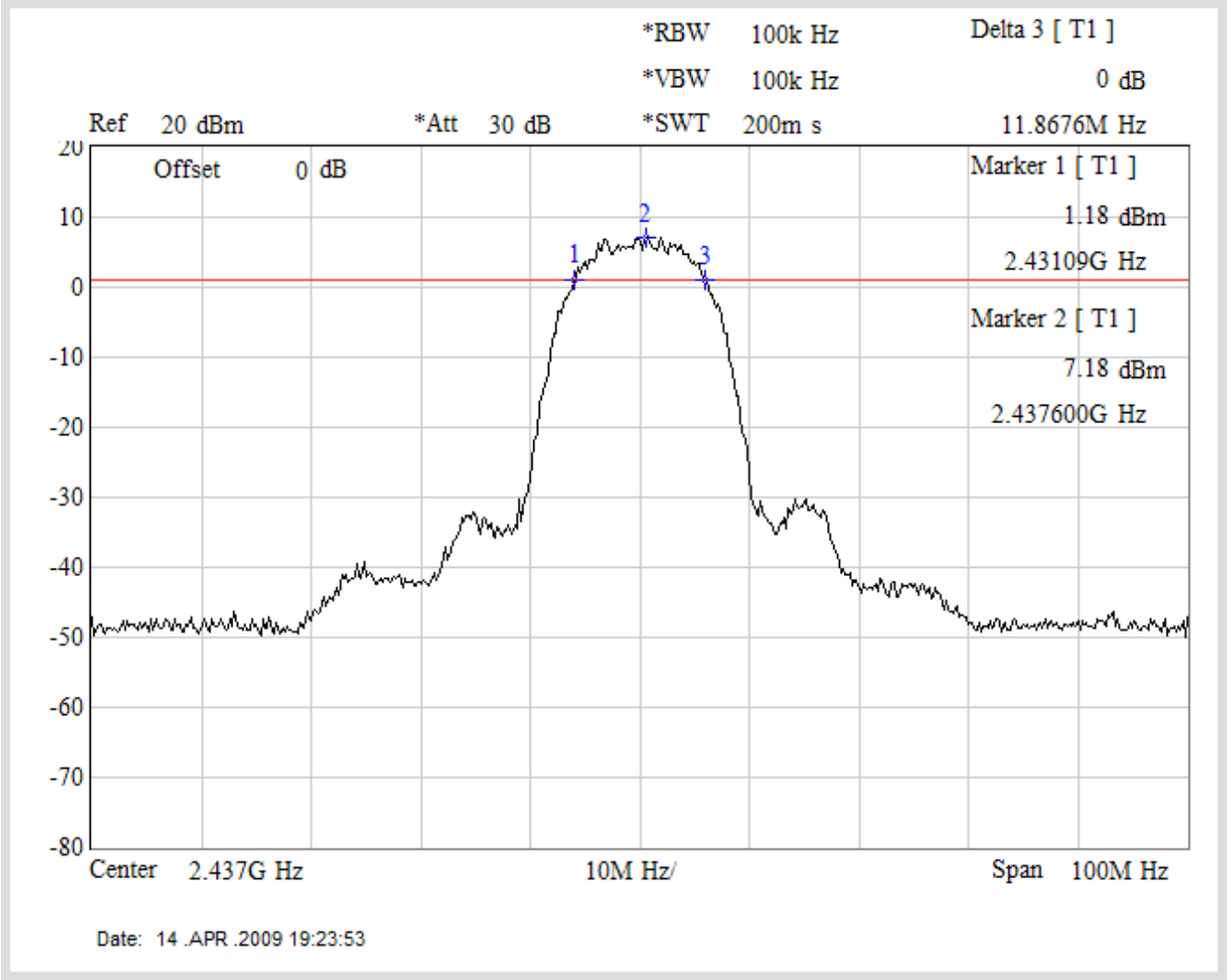
Product	Wireless N Router with All-in-One Printer Server		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2009/04/14	Test Site	No.1 OATS

802.11 b				
Channel No.	Frequency (MHz)	Measurement Level (KHz)	Required Limit (KHz)	Result
1	2412.00	12052.8	≧500	Pass
6	2437.00	11867.6	≧500	Pass
11	2462.00	12020.4	≧500	Pass

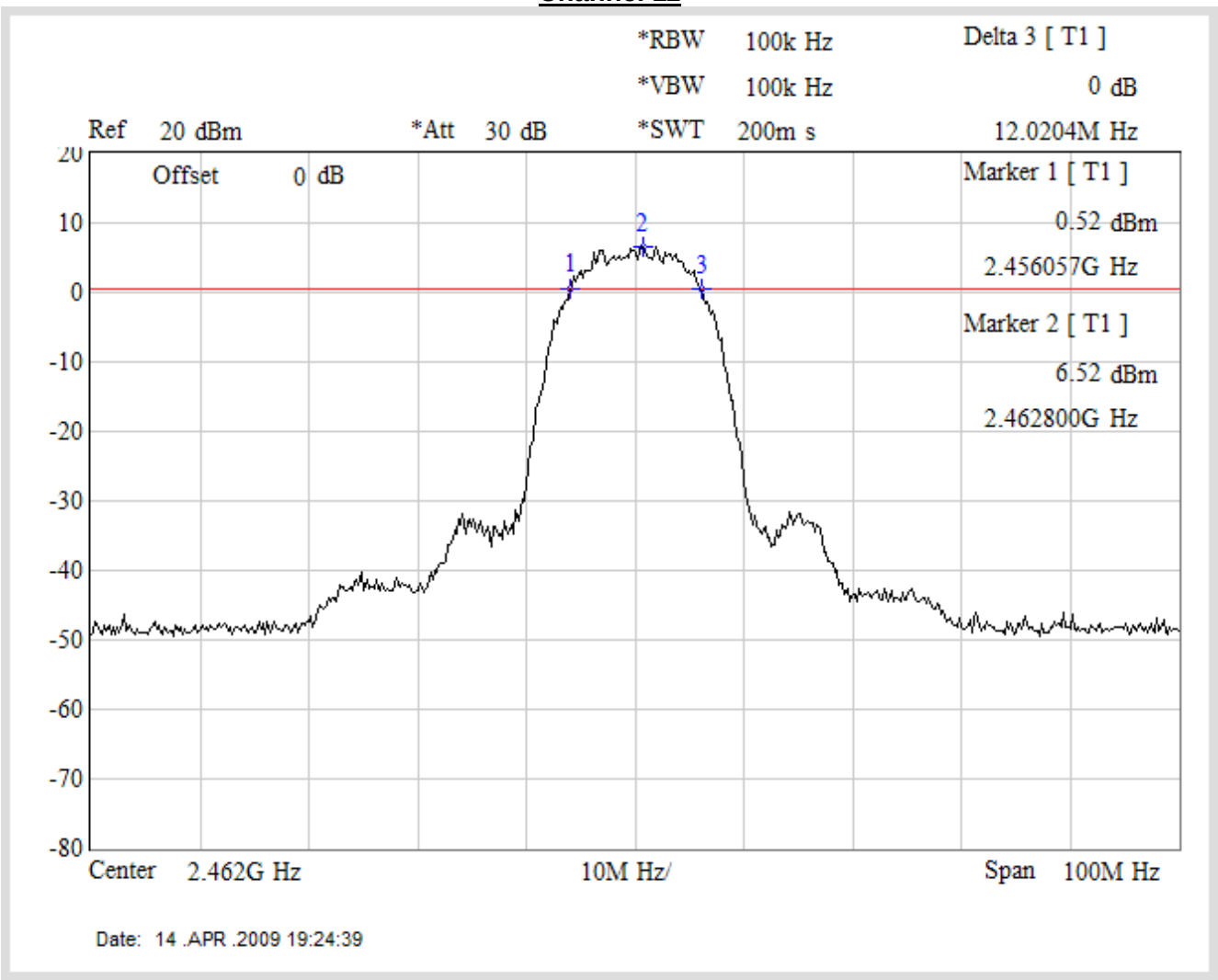
Channel 1



Channel 6


*RBW 100k Hz
*VBW 100k Hz
*SWT 200m s
Delta 3 [T1]
0 dB
11.8676M Hz
Ref 20 dBm
*Att 30 dB
Offset 0 dB
Marker 1 [T1]
1.18 dBm
2.43109G Hz
Marker 2 [T1]
7.18 dBm
2.437600G Hz
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.437G Hz
10M Hz/
Span 100M Hz
Date: 14 .APR .2009 19:23:53

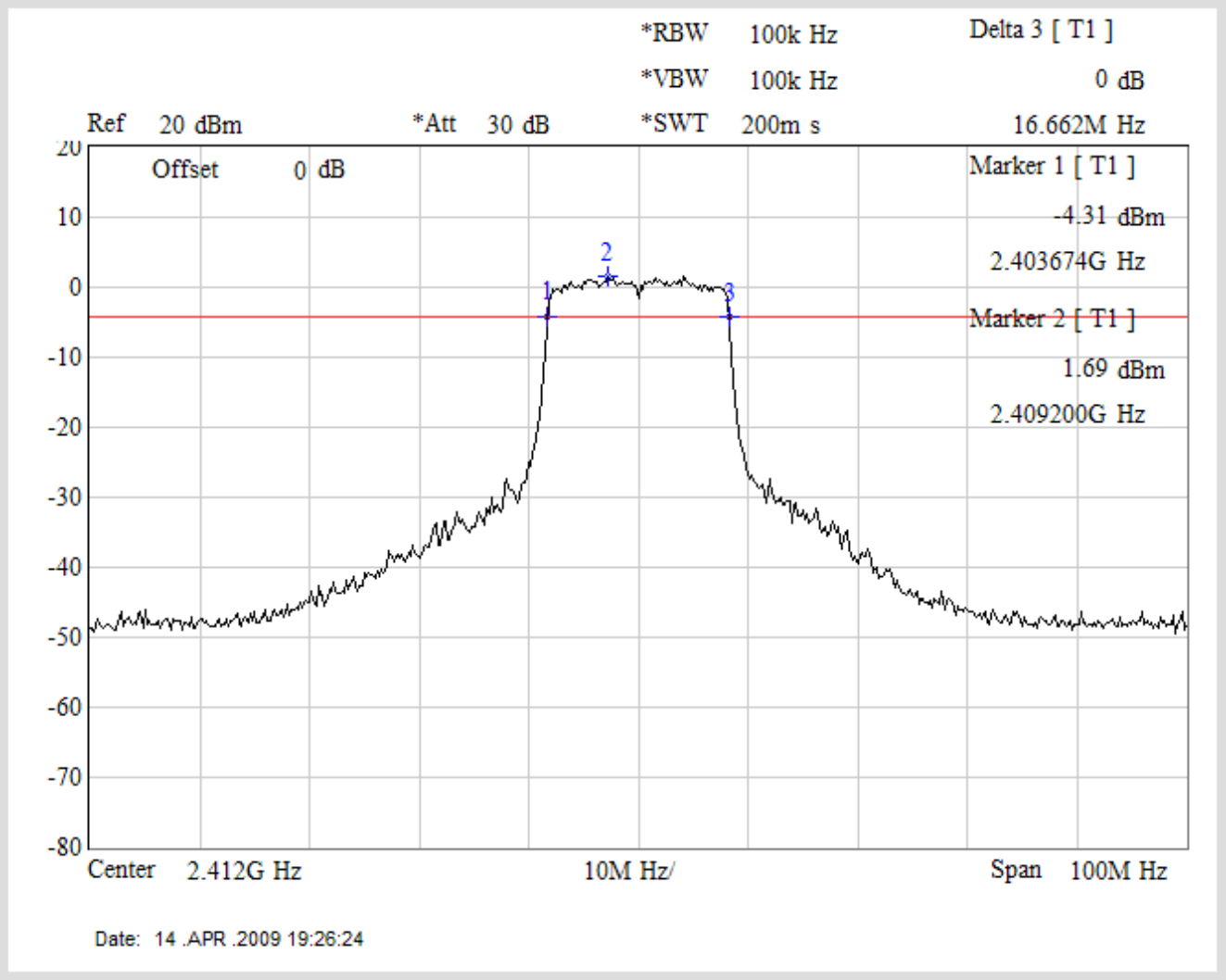
Channel 11


*RBW 100k Hz
*VBW 100k Hz
*SWT 200m s
Delta 3 [T1]
0 dB
12.0204M Hz
Ref 20 dBm
*Att 30 dB
Offset 0 dB
Marker 1 [T1]
0.52 dBm
2.456057G Hz
Marker 2 [T1]
6.52 dBm
2.462800G Hz
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.462G Hz
10M Hz/
Span 100M Hz
Date: 14 .APR .2009 19:24:39

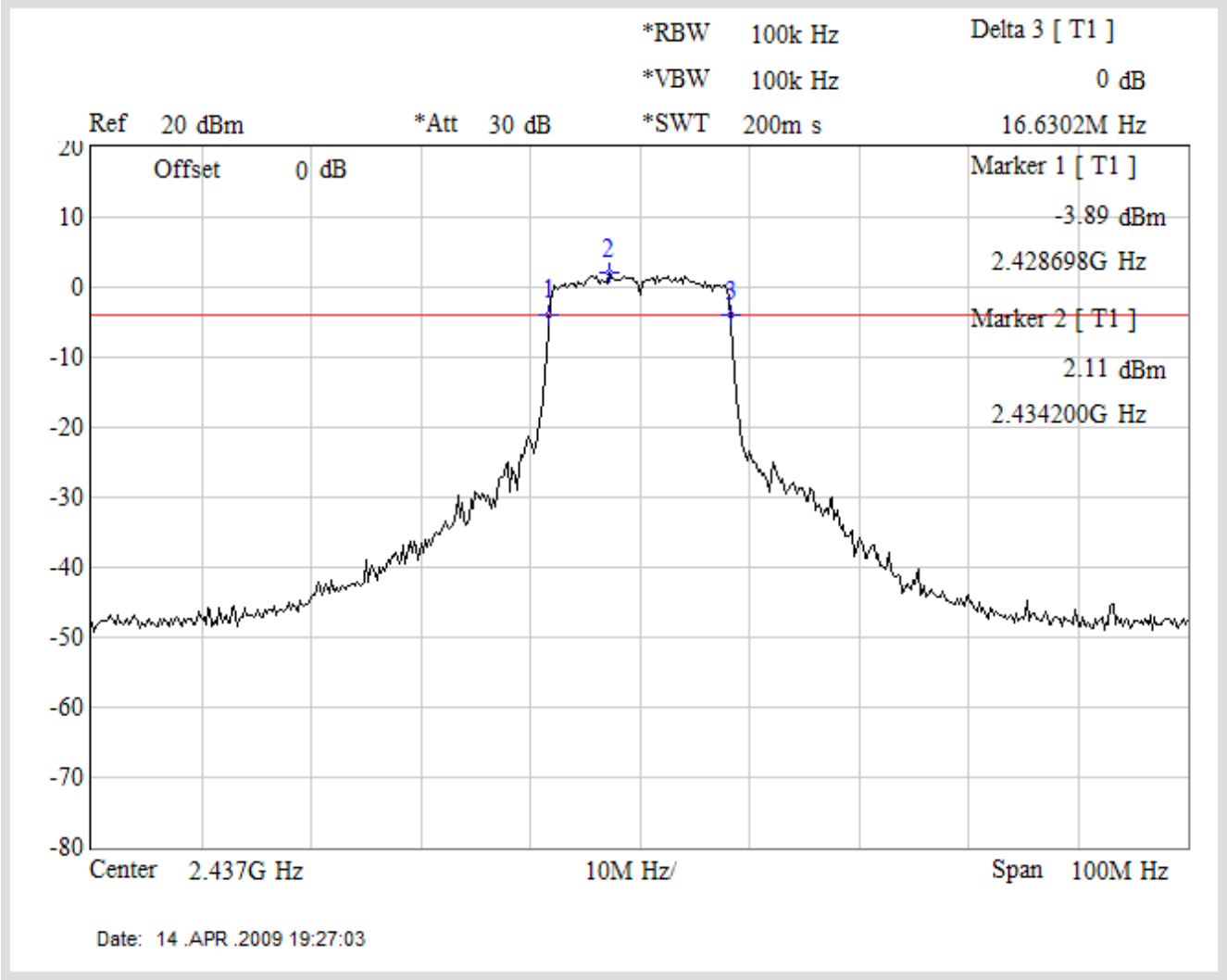
Product	Wireless N Router with All-in-One Printer Server		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2009/04/14	Test Site	No.1 OATS

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measurement Level (KHz)	Required Limit (KHz)	Result
1	2412.00	16662.0	≧500	Pass
6	2437.00	16630.2	≧500	Pass
11	2462.00	16704.0	≧500	Pass

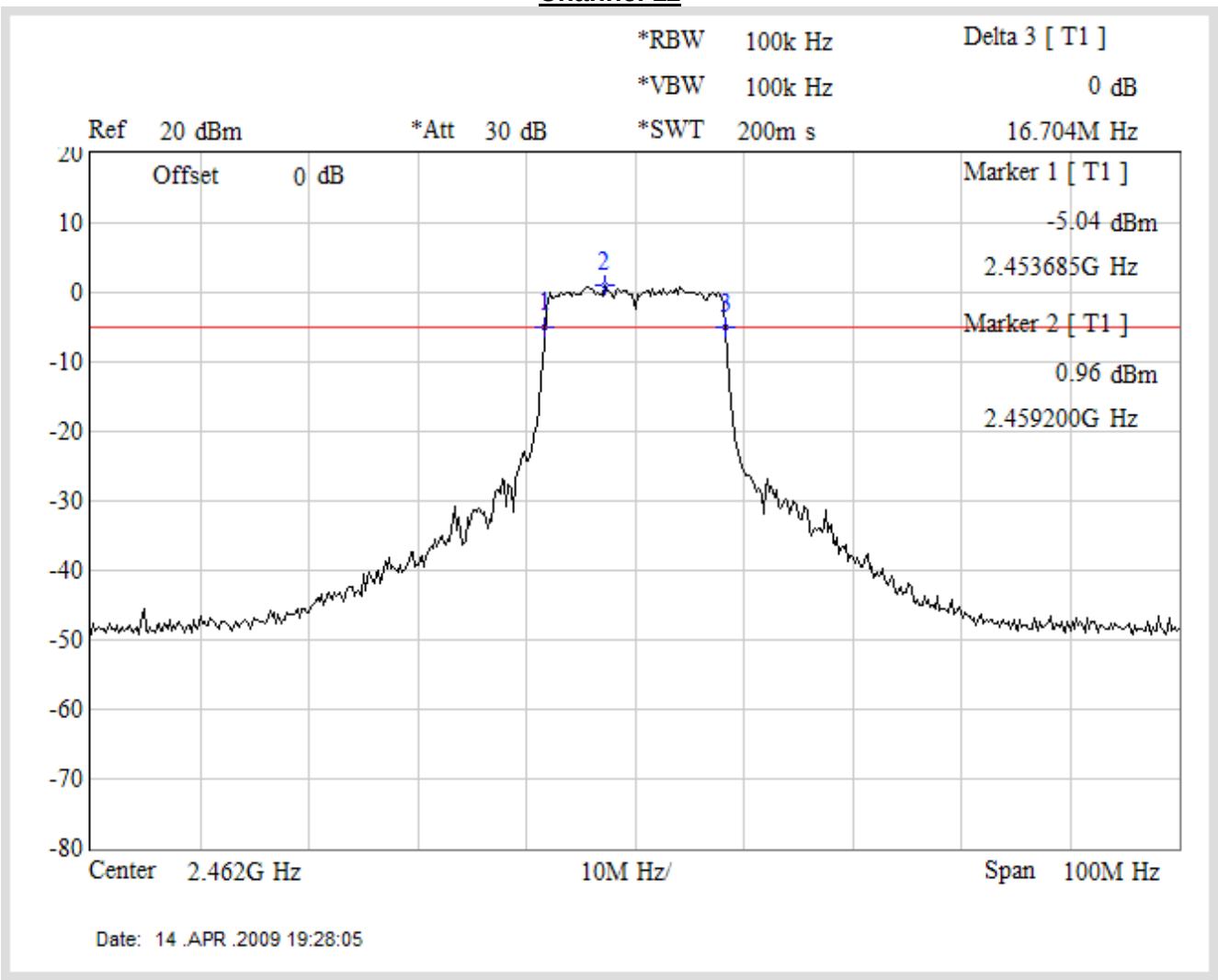
Channel 1



Channel 6


*RBW 100k Hz
*VBW 100k Hz
*SWT 200m s
Delta 3 [T1]
0 dB
16.6302M Hz
Ref 20 dBm
*Att 30 dB
Offset 0 dB
Marker 1 [T1]
-3.89 dBm
2.428698G Hz
Marker 2 [T1]
2.11 dBm
2.434200G Hz
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.437G Hz
10M Hz/
Span 100M Hz
Date: 14 .APR .2009 19:27:03

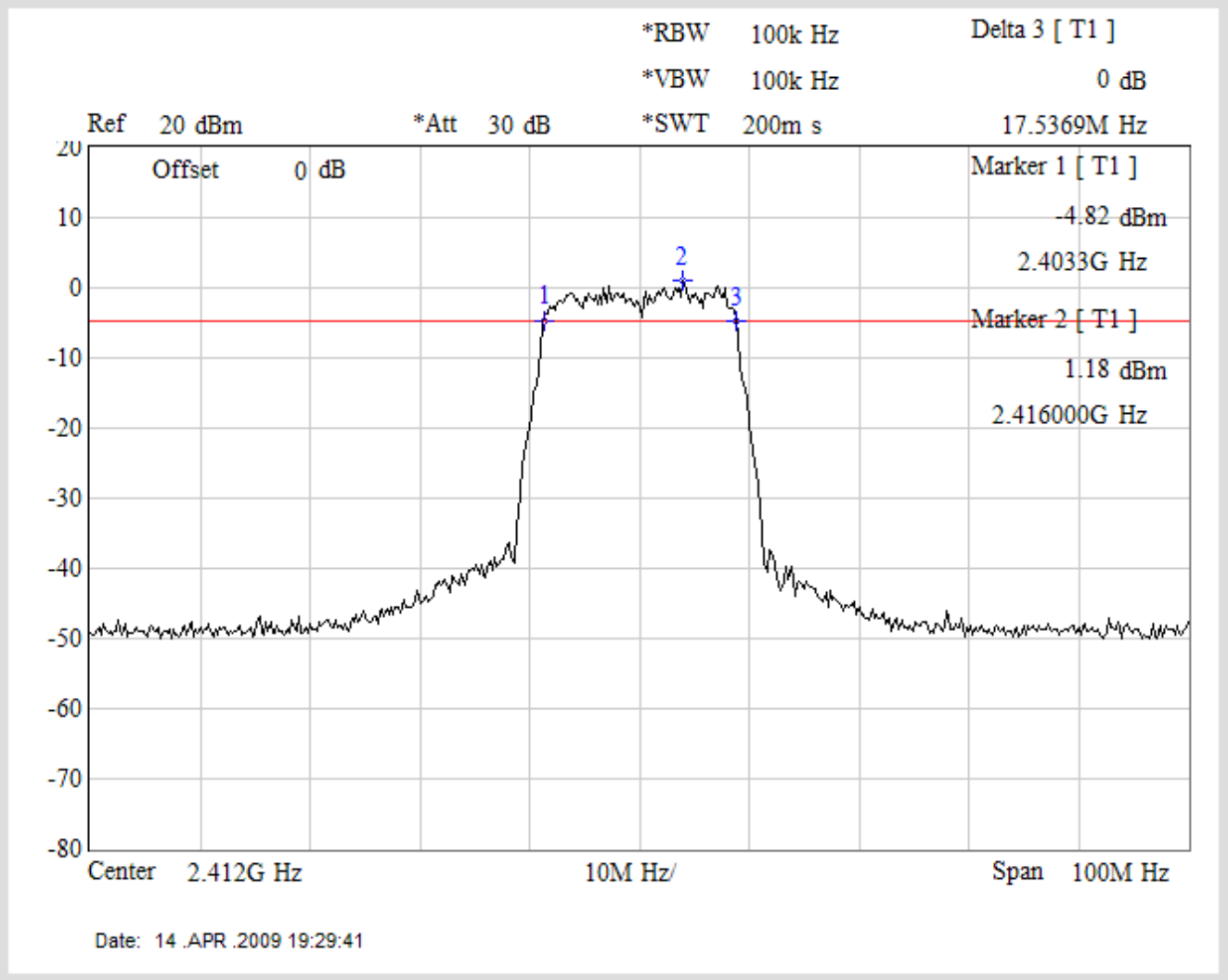
Channel 11


*RBW 100k Hz
*VBW 100k Hz
*SWT 200m s
Delta 3 [T1]
0 dB
16.704M Hz
Ref 20 dBm
*Att 30 dB
Offset 0 dB
Marker 1 [T1]
-5.04 dBm
2.453685G Hz
Marker 2 [T1]
0.96 dBm
2.459200G Hz
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.462G Hz
10M Hz/
Span 100M Hz
Date: 14 .APR .2009 19:28:05

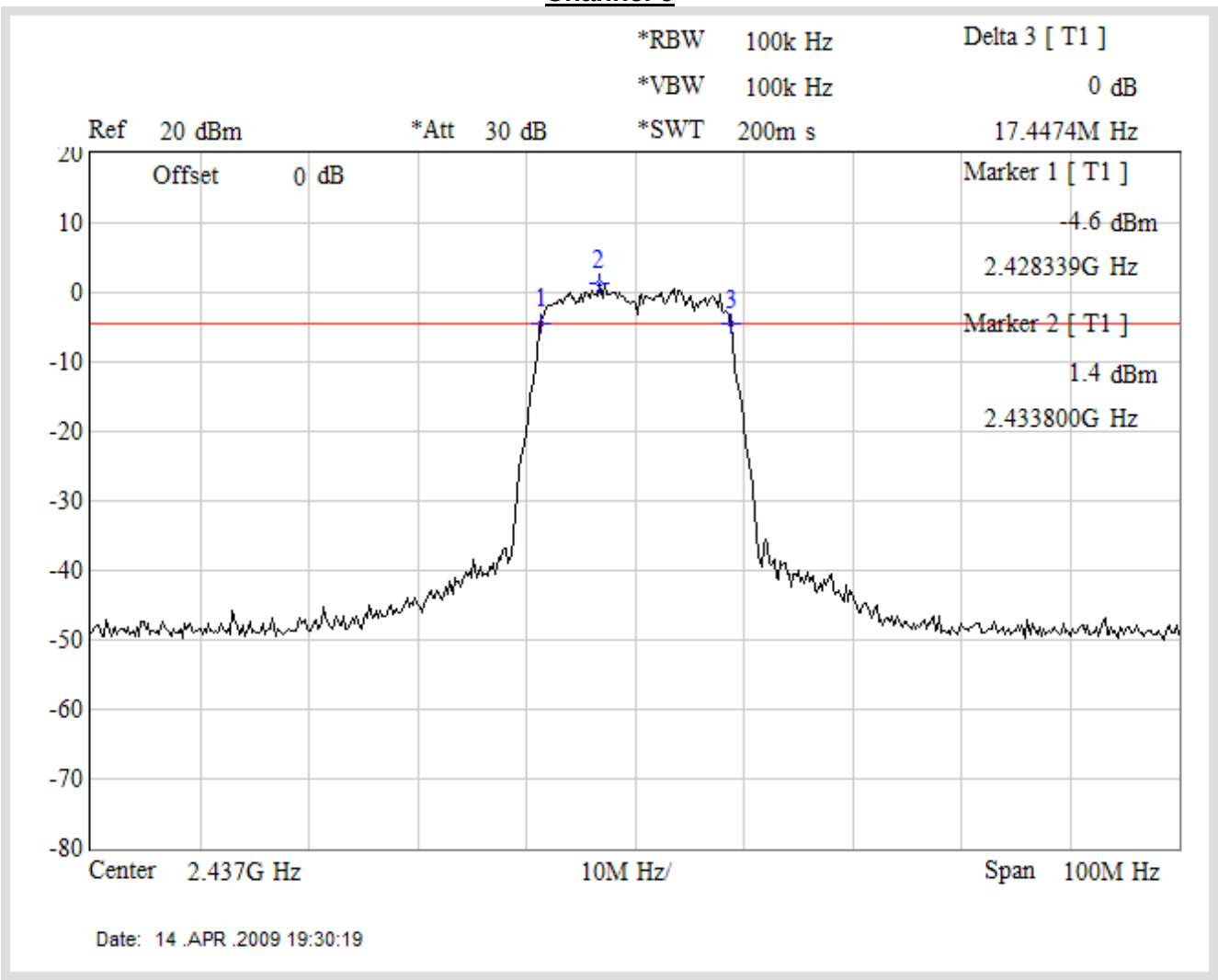
Product	Wireless N Router with All-in-One Printer Server		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2009/04/14	Test Site	No.1 OATS

IEEE 802.11n (ANT A (20MHz))				
Channel No.	Frequency (MHz)	Measurement Level (KHz)	Required Limit (KHz)	Result
1	2412.00	17536.9	≧500	Pass
6	2437.00	17447.4	≧500	Pass
11	2462.00	17338.7	≧500	Pass

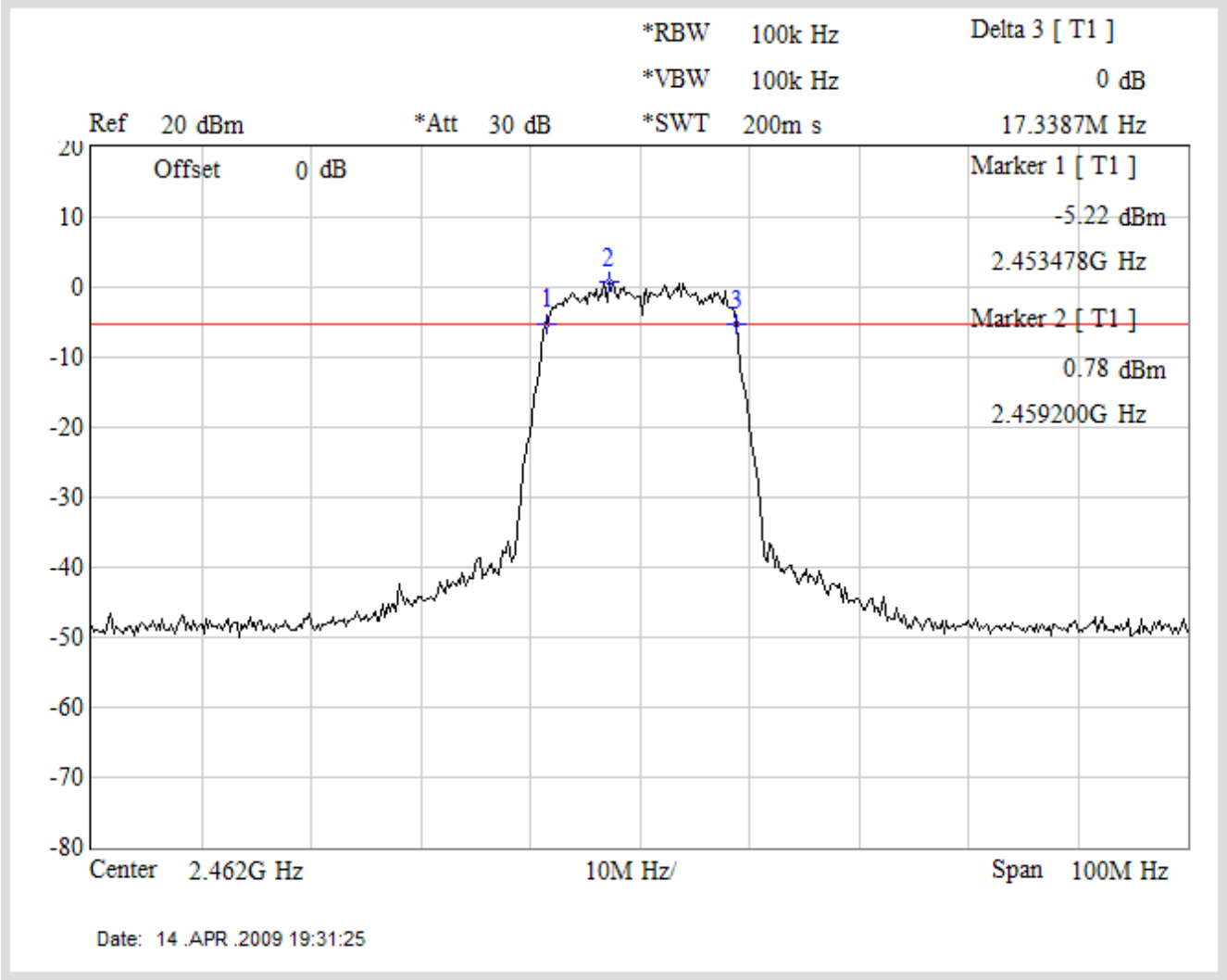
Channel 1



Channel 6


*RBW 100k Hz
*VBW 100k Hz
*SWT 200m s
Delta 3 [T1]
0 dB
17.4474M Hz
Ref 20 dBm
*Att 30 dB
Offset 0 dB
Marker 1 [T1]
-4.6 dBm
2.428339G Hz
Marker 2 [T1]
1.4 dBm
2.433800G Hz
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.437G Hz
10M Hz/
Span 100M Hz
Date: 14 .APR .2009 19:30:19

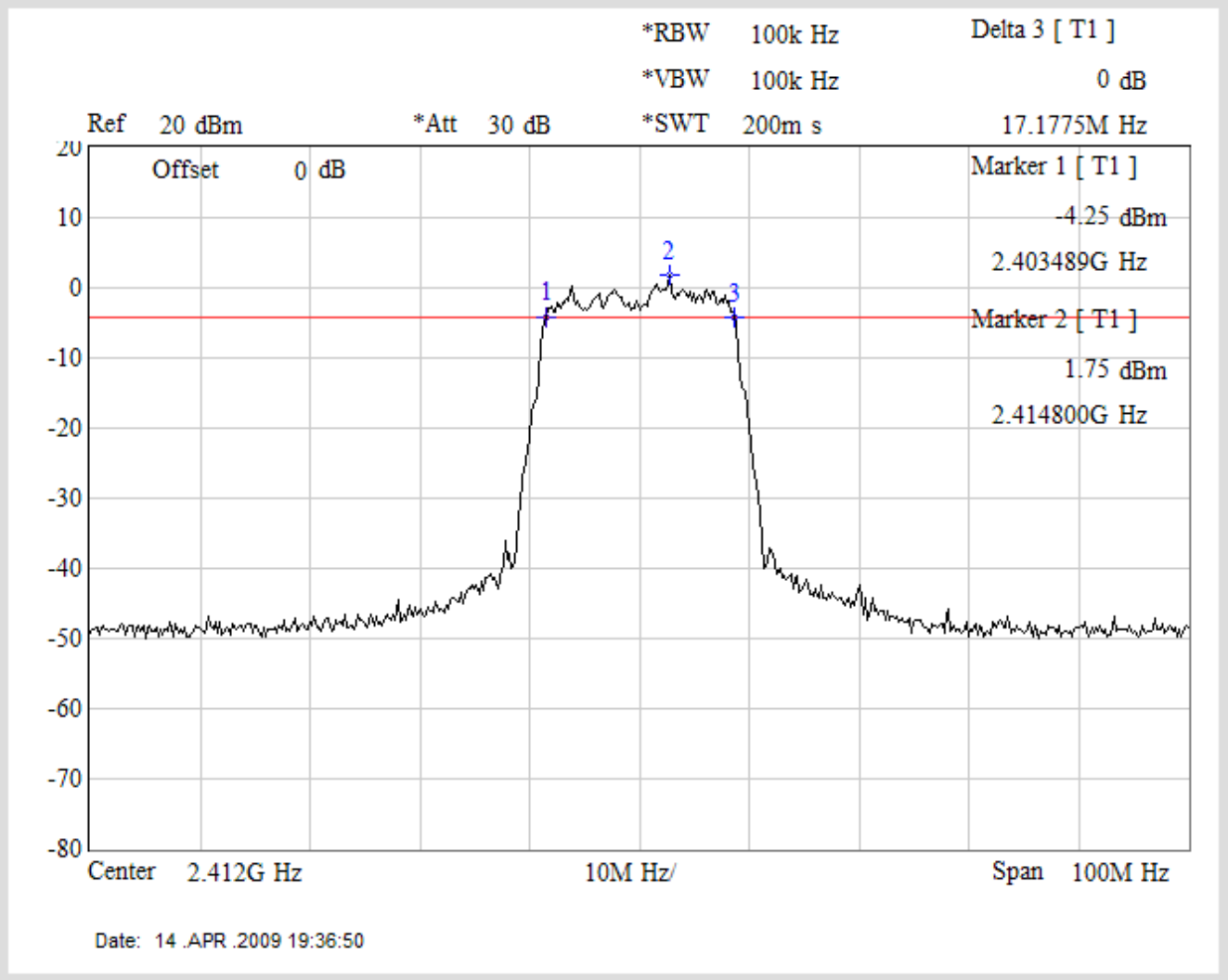
Channel 11


*RBW 100k Hz
*VBW 100k Hz
*SWT 200m s
Delta 3 [T1]
0 dB
17.3387M Hz
Ref 20 dBm
*Att 30 dB
Offset 0 dB
Marker 1 [T1]
-5.22 dBm
2.453478G Hz
Marker 2 [T1]
0.78 dBm
2.459200G Hz
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.462G Hz
10M Hz/
Span 100M Hz
Date: 14 .APR .2009 19:31:25

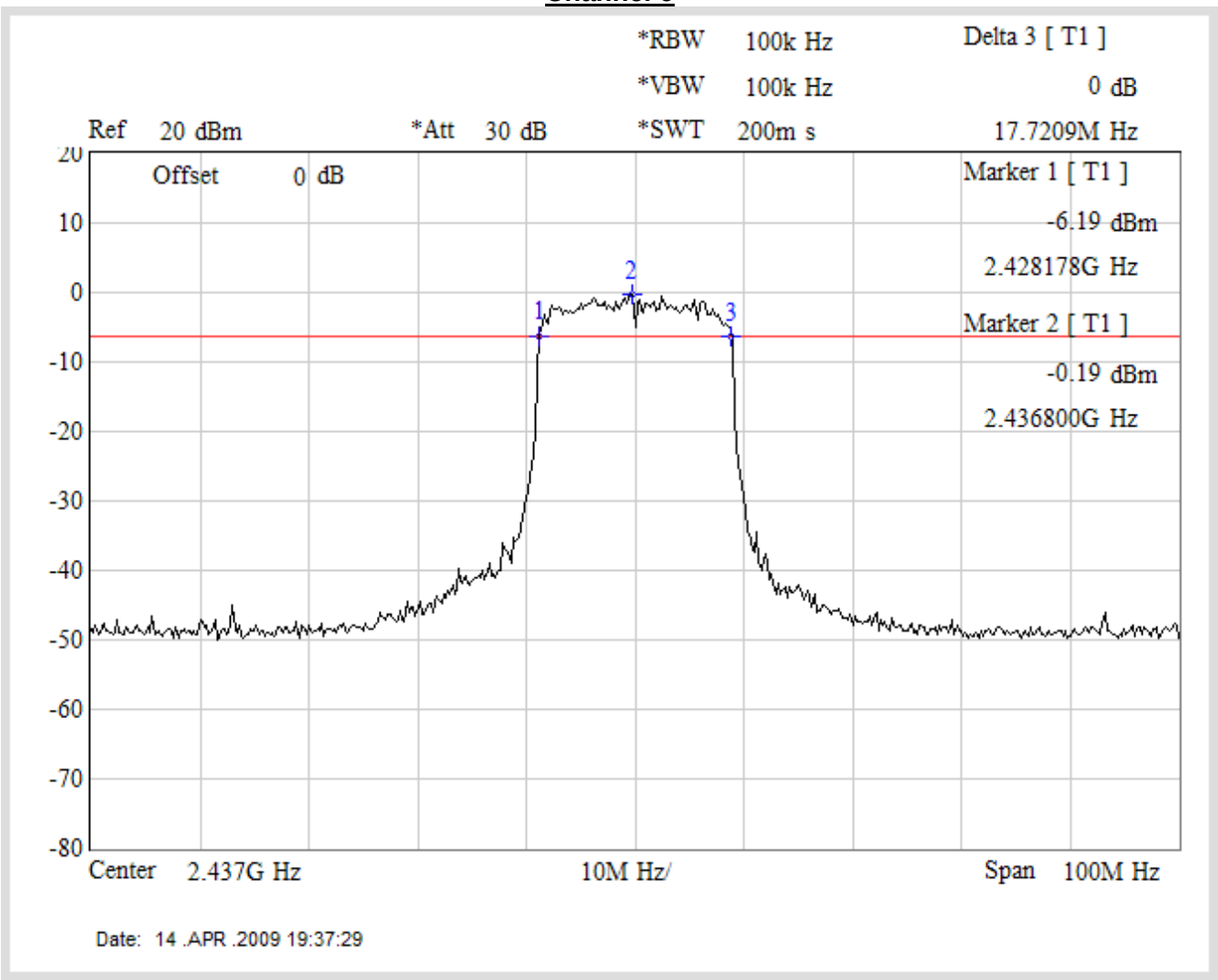
Product	Wireless N Router with All-in-One Printer Server		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2009/04/14	Test Site	No.1 OATS

IEEE 802.11n (ANT B (20MHz))				
Channel No.	Frequency (MHz)	Measurement Level (KHz)	Required Limit (KHz)	Result
1	2412.00	17177.5	≧500	Pass
6	2437.00	17720.9	≧500	Pass
11	2462.00	17129.5	≧500	Pass

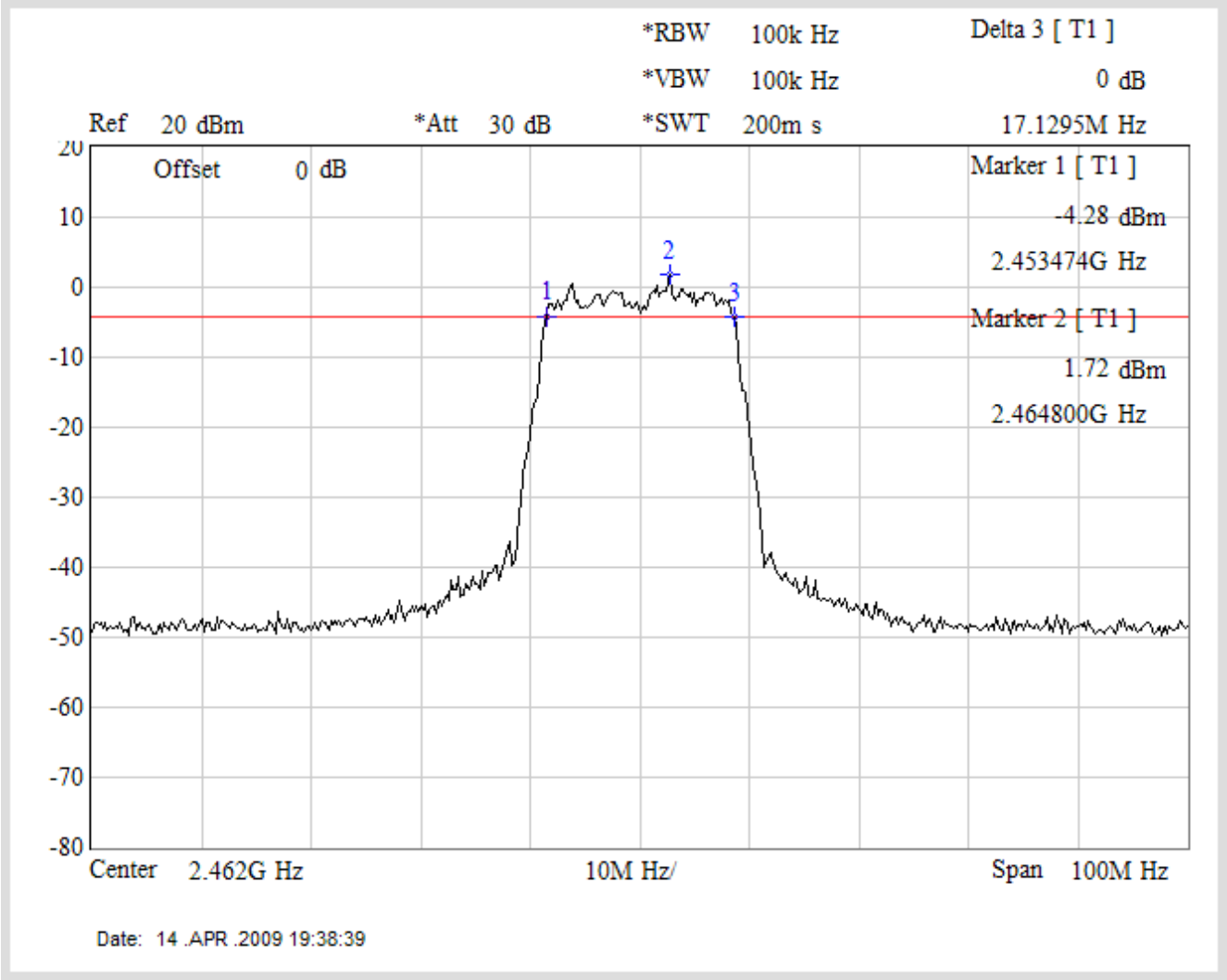
Channel 1



Channel 6


*RBW 100k Hz
*VBW 100k Hz
*SWT 200m s
Delta 3 [T1]
0 dB
17.7209M Hz
Ref 20 dBm
*Att 30 dB
Offset 0 dB
Marker 1 [T1]
-6.19 dBm
2.428178G Hz
Marker 2 [T1]
-0.19 dBm
2.436800G Hz
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.437G Hz
10M Hz/
Span 100M Hz
Date: 14 .APR .2009 19:37:29

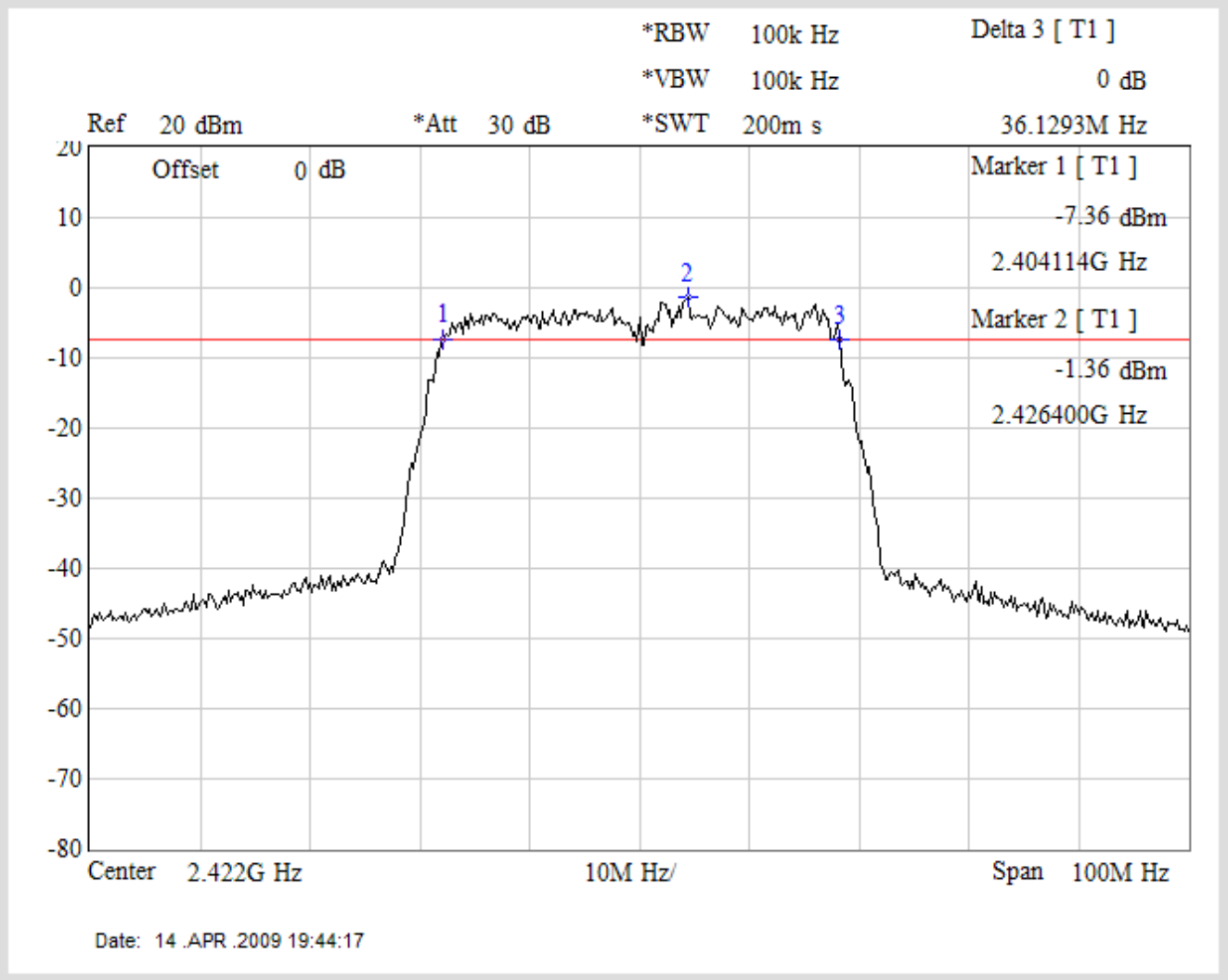
Channel 11


*RBW 100k Hz
*VBW 100k Hz
*SWT 200m s
Delta 3 [T1]
0 dB
17.1295M Hz
Ref 20 dBm
*Att 30 dB
Offset 0 dB
Marker 1 [T1]
-4.28 dBm
2.453474G Hz
Marker 2 [T1]
1.72 dBm
2.464800G Hz
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.462G Hz
10M Hz/
Span 100M Hz
Date: 14 .APR .2009 19:38:39

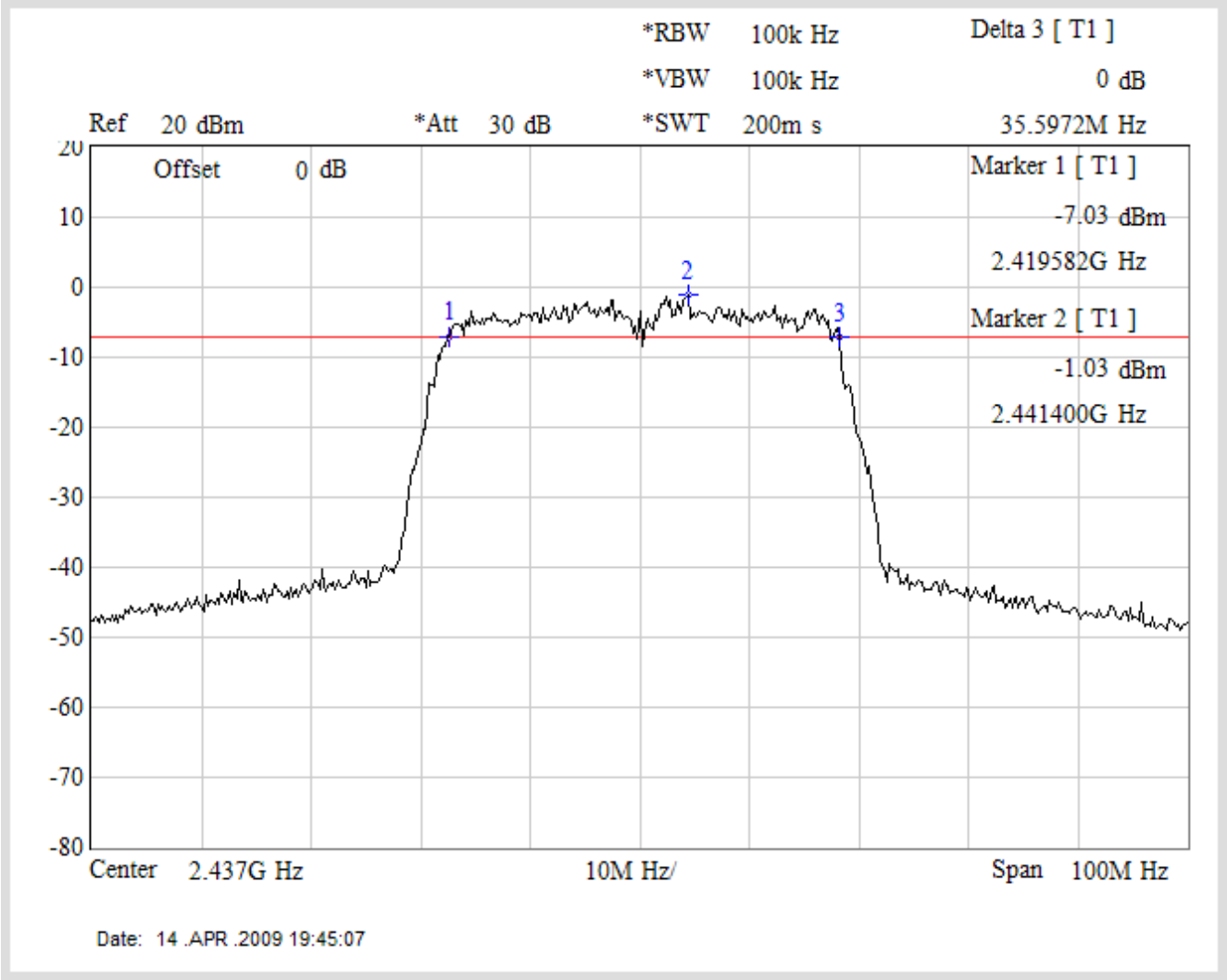
Product	Wireless N Router with All-in-One Printer Server		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2009/04/14	Test Site	No.1 OATS

IEEE 802.11n (ANT A (40MHz))				
Channel No.	Frequency (MHz)	Measurement Level (KHz)	Required Limit (KHz)	Result
3	2422	36129.3	≧500	Pass
6	2437	35597.2	≧500	Pass
9	2452	36251.3	≧500	Pass

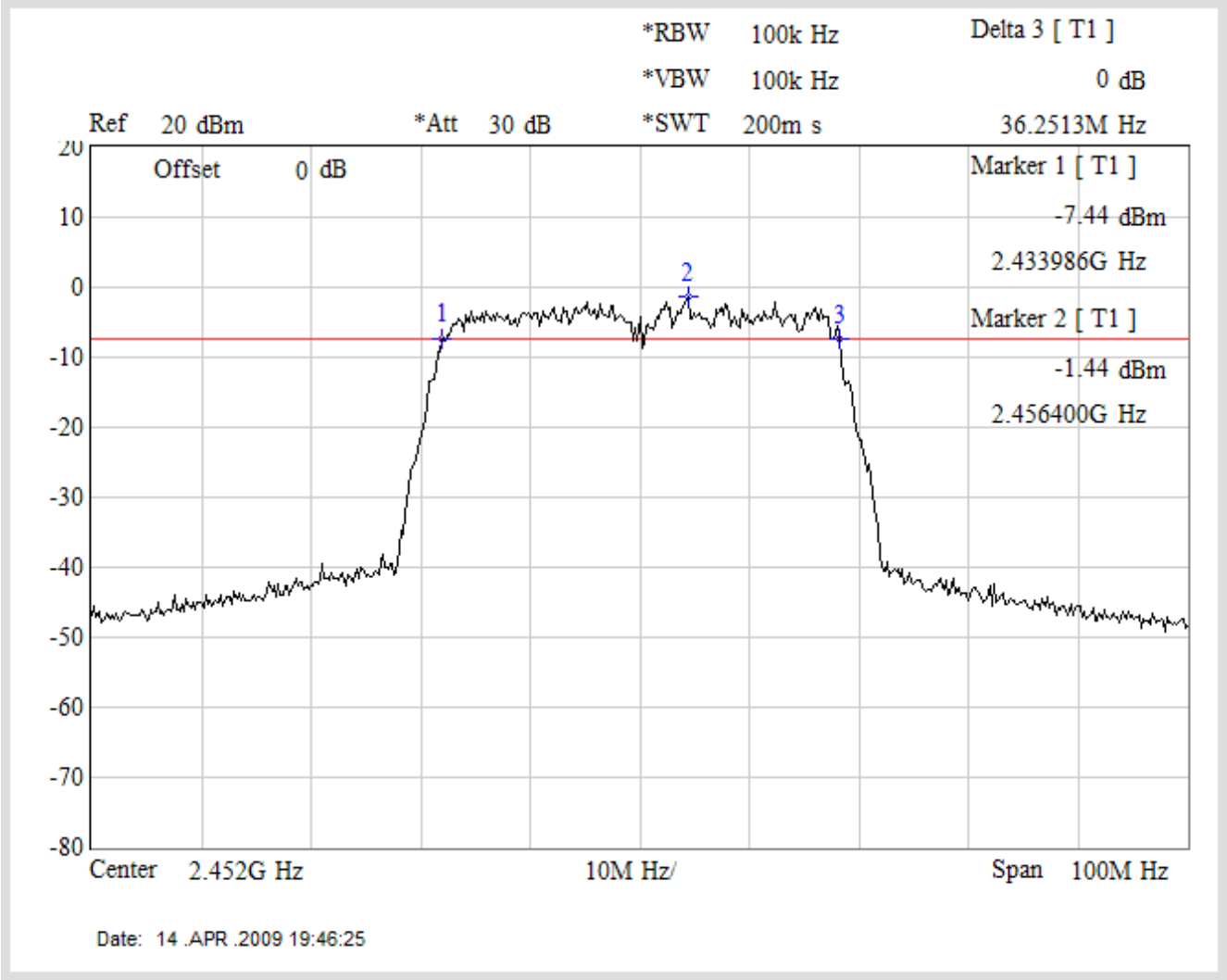
Channel 3



Channel 6


*RBW 100k Hz
*VBW 100k Hz
*SWT 200m s
Delta 3 [T1]
0 dB
35.5972M Hz
Ref 20 dBm
*Att 30 dB
Offset 0 dB
Marker 1 [T1]
-7.03 dBm
2.419582G Hz
Marker 2 [T1]
-1.03 dBm
2.441400G Hz
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.437G Hz
10M Hz/
Span 100M Hz
Date: 14 .APR .2009 19:45:07

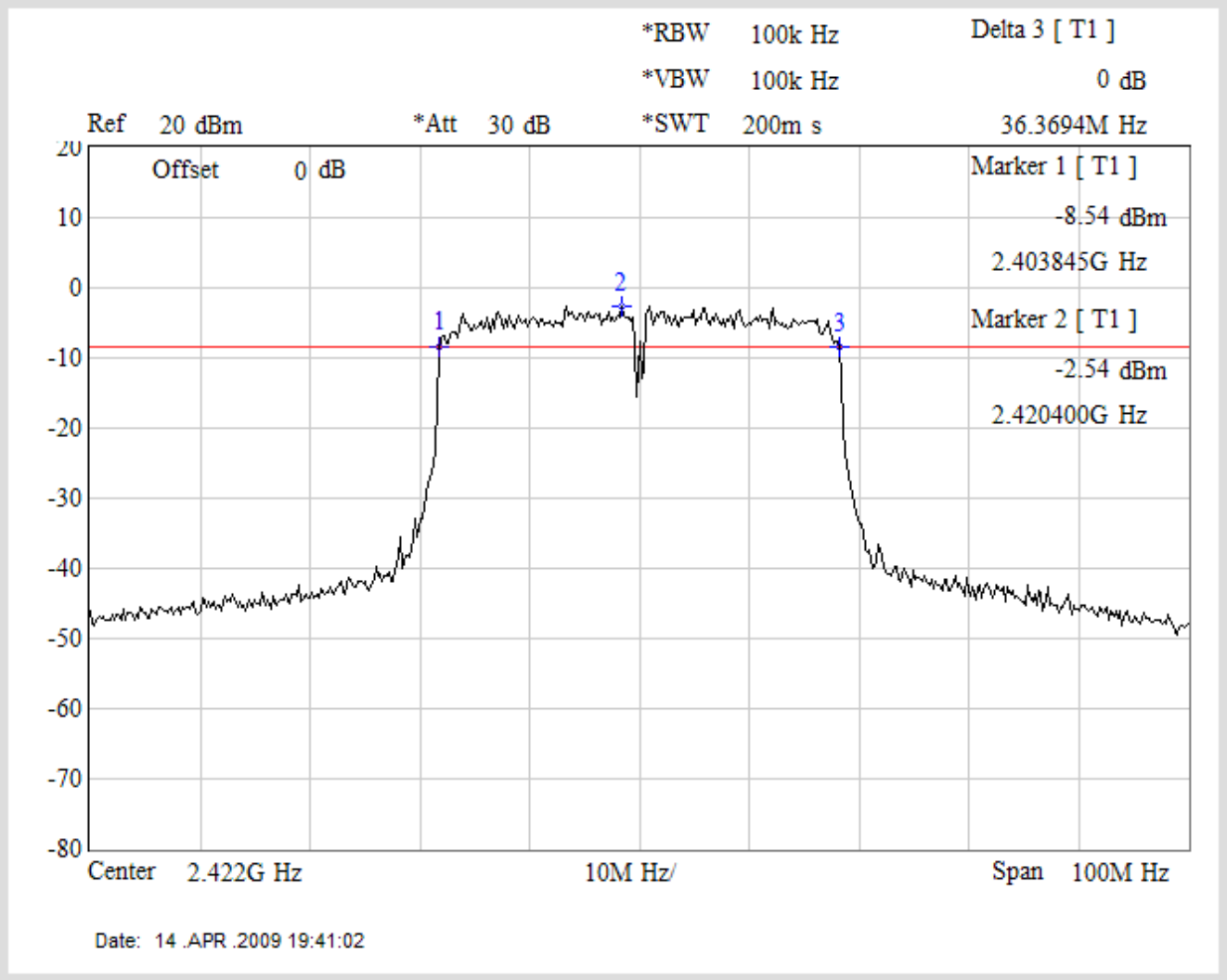
Channel 9


*RBW 100k Hz
*VBW 100k Hz
Delta 3 [T1]
0 dB
Ref 20 dBm
*Att 30 dB
*SWT 200m s
36.2513M Hz
Offset 0 dB
Marker 1 [T1]
-7.44 dBm
2.433986G Hz
Marker 2 [T1]
-1.44 dBm
2.456400G Hz
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.452G Hz
10M Hz/
Span 100M Hz
Date: 14 .APR .2009 19:46:25

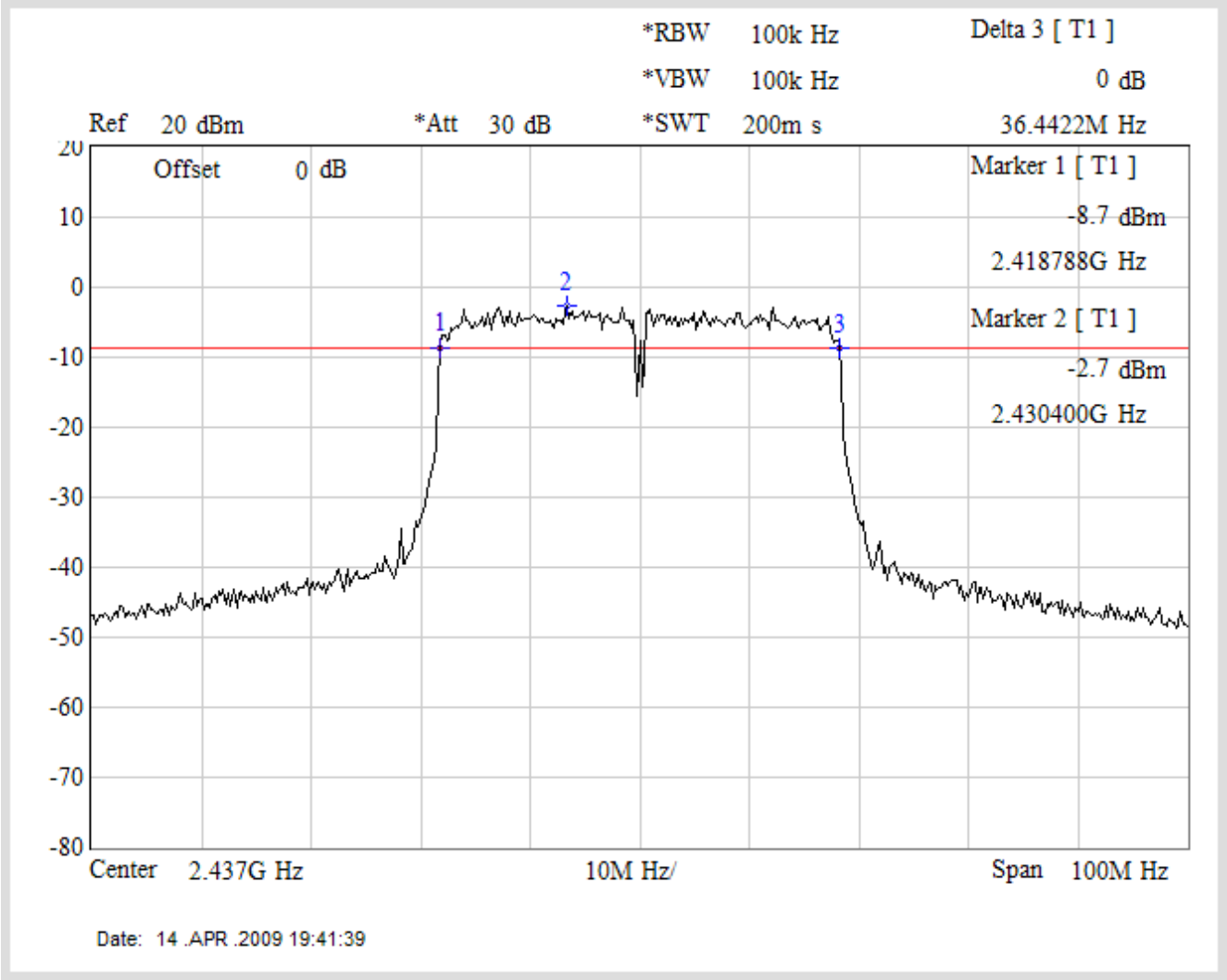
Product	Wireless N Router with All-in-One Printer Server		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2009/04/14	Test Site	No.1 OATS

IEEE 802.11n (ANT B (40MHz))				
Channel No.	Frequency (MHz)	Measurement Level (KHz)	Required Limit (KHz)	Result
3	2422	36369.4	≧500	Pass
6	2437	36442.2	≧500	Pass
9	2452	36021.0	≧500	Pass

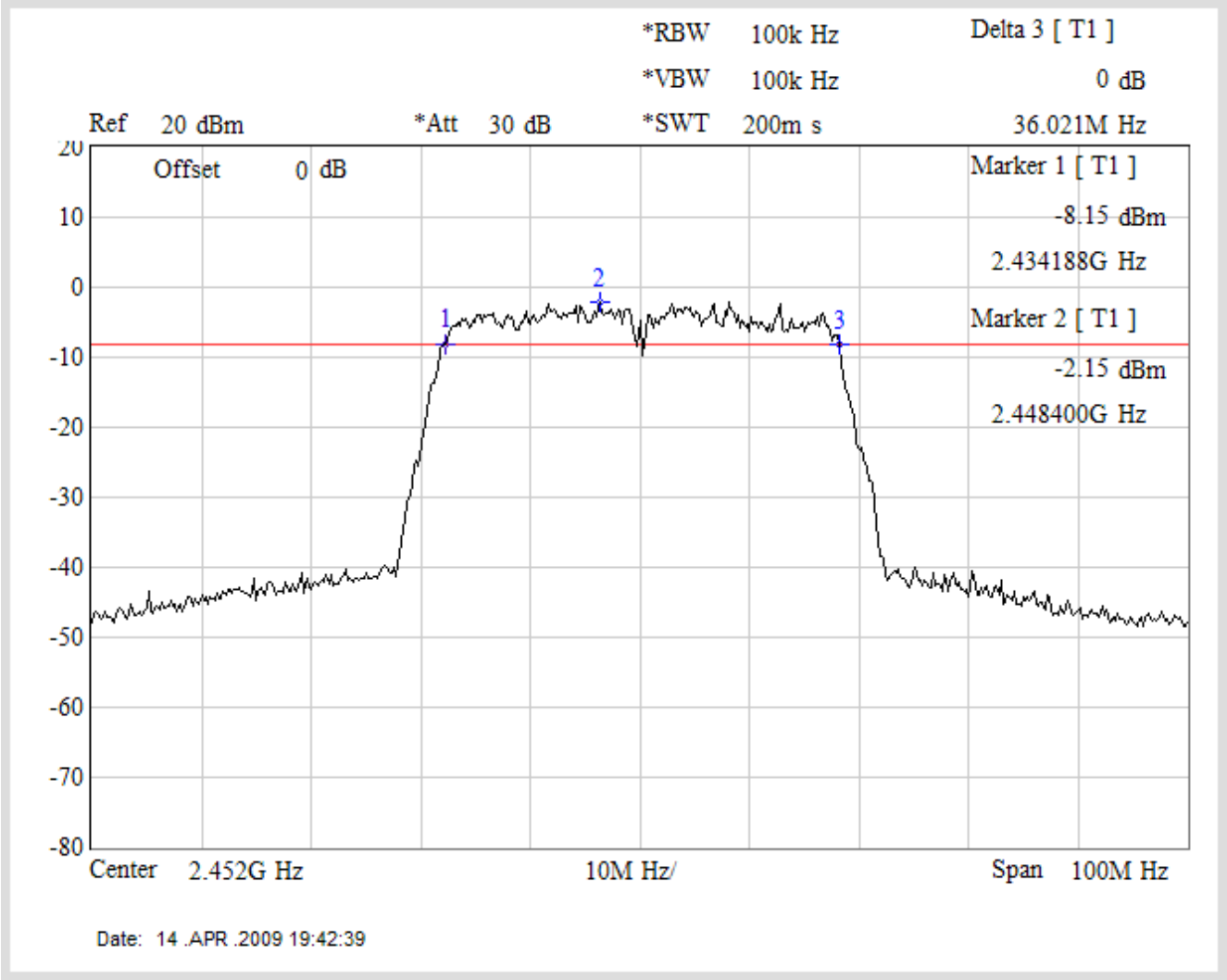
Channel 3



Channel 6


*RBW 100k Hz
*VBW 100k Hz
*SWT 200m s
Delta 3 [T1]
0 dB
36.4422M Hz
Ref 20 dBm
*Att 30 dB
Offset 0 dB
Marker 1 [T1]
-8.7 dBm
2.418788G Hz
Marker 2 [T1]
-2.7 dBm
2.430400G Hz
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.437G Hz
10M Hz/
Span 100M Hz
Date: 14 .APR .2009 19:41:39

Channel 9


*RBW 100k Hz
*VBW 100k Hz
Delta 3 [T1]
0 dB
Ref 20 dBm
*Att 30 dB
*SWT 200m s
36.021M Hz
Offset 0 dB
Marker 1 [T1]
-8.15 dBm
2.434188G Hz
Marker 2 [T1]
-2.15 dBm
2.448400G Hz
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.452G Hz
10M Hz/
Span 100M Hz
Date: 14 .APR .2009 19:42:39

8. Power Density

8.1. Test Equipment

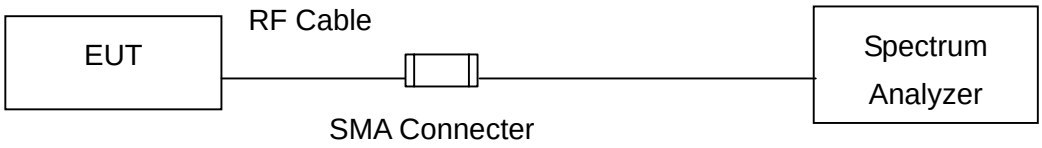
The following test equipment are used during the test:

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

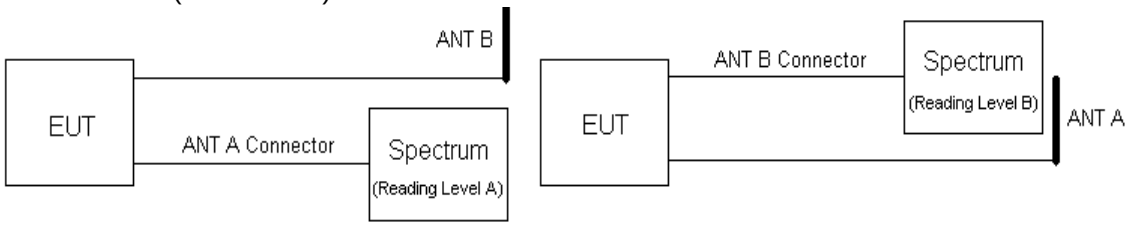
Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

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

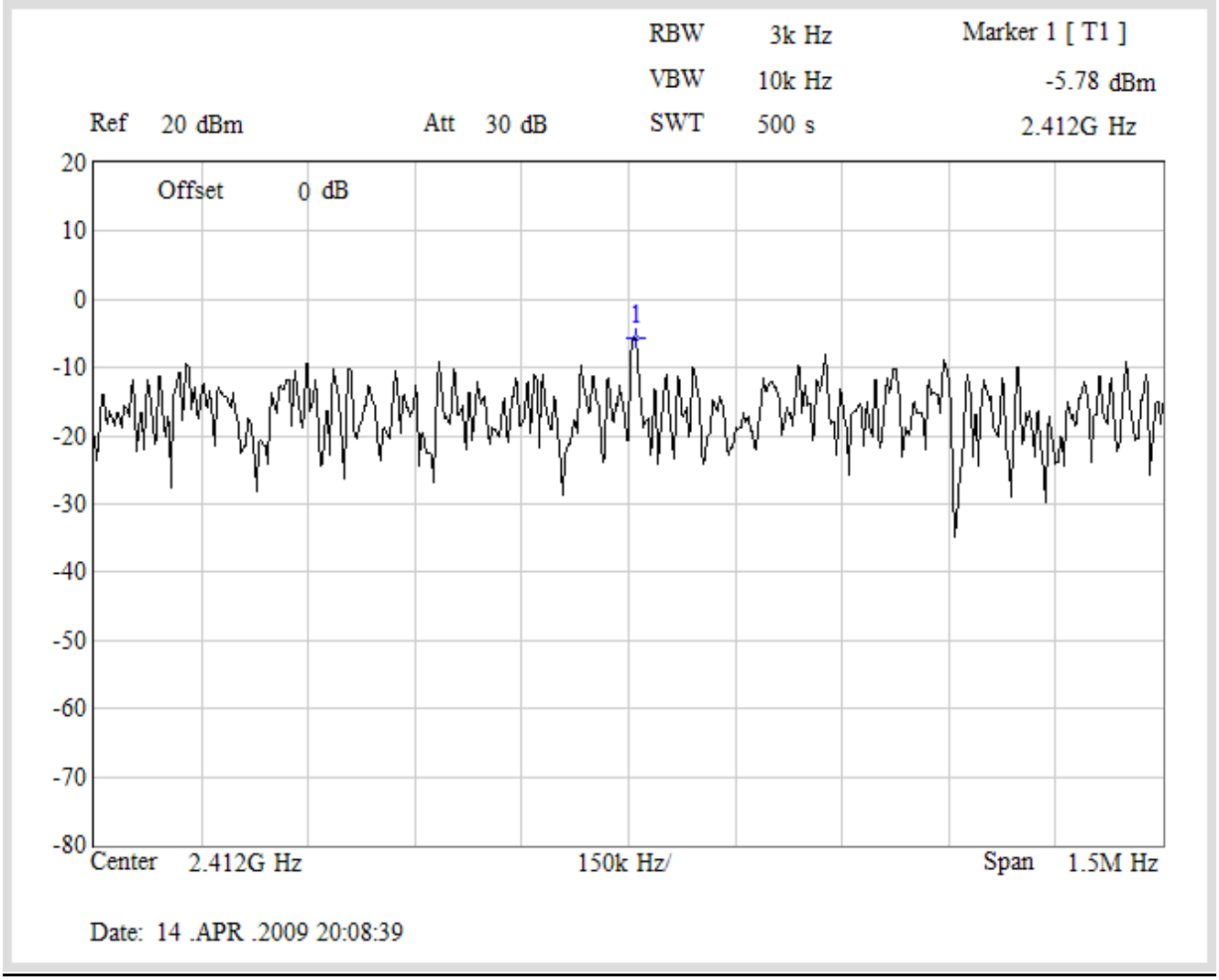
The measurement uncertainty is defined as ±1.27dB.

8.6. Test Result

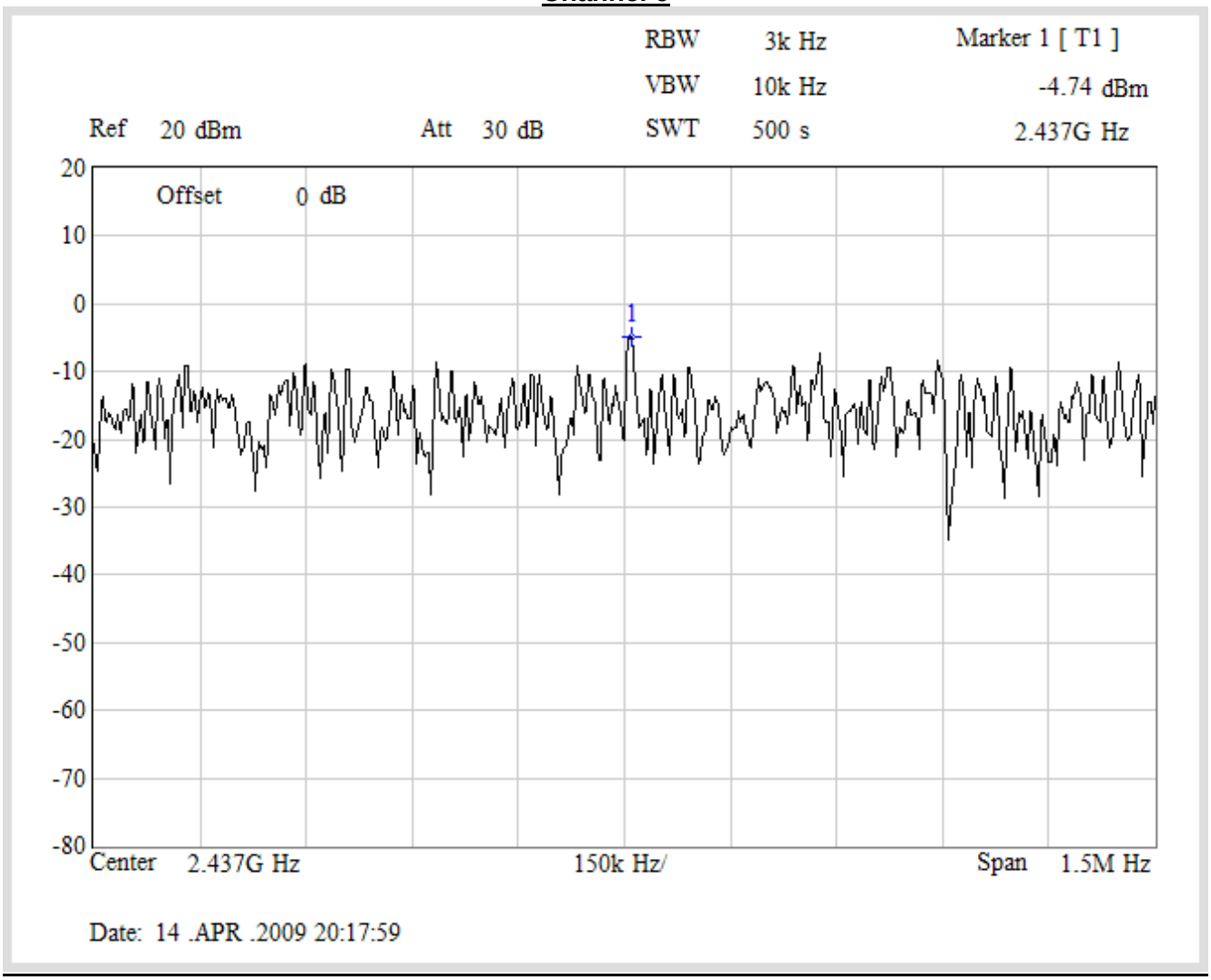
Product	Wireless N Router with All-in-One Printer Server		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2009/04/14	Test Site	No.1 OATS

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-5.78	≦8	Pass
6	2437	-4.74	≦8	Pass
11	2462	-5.22	≦8	Pass

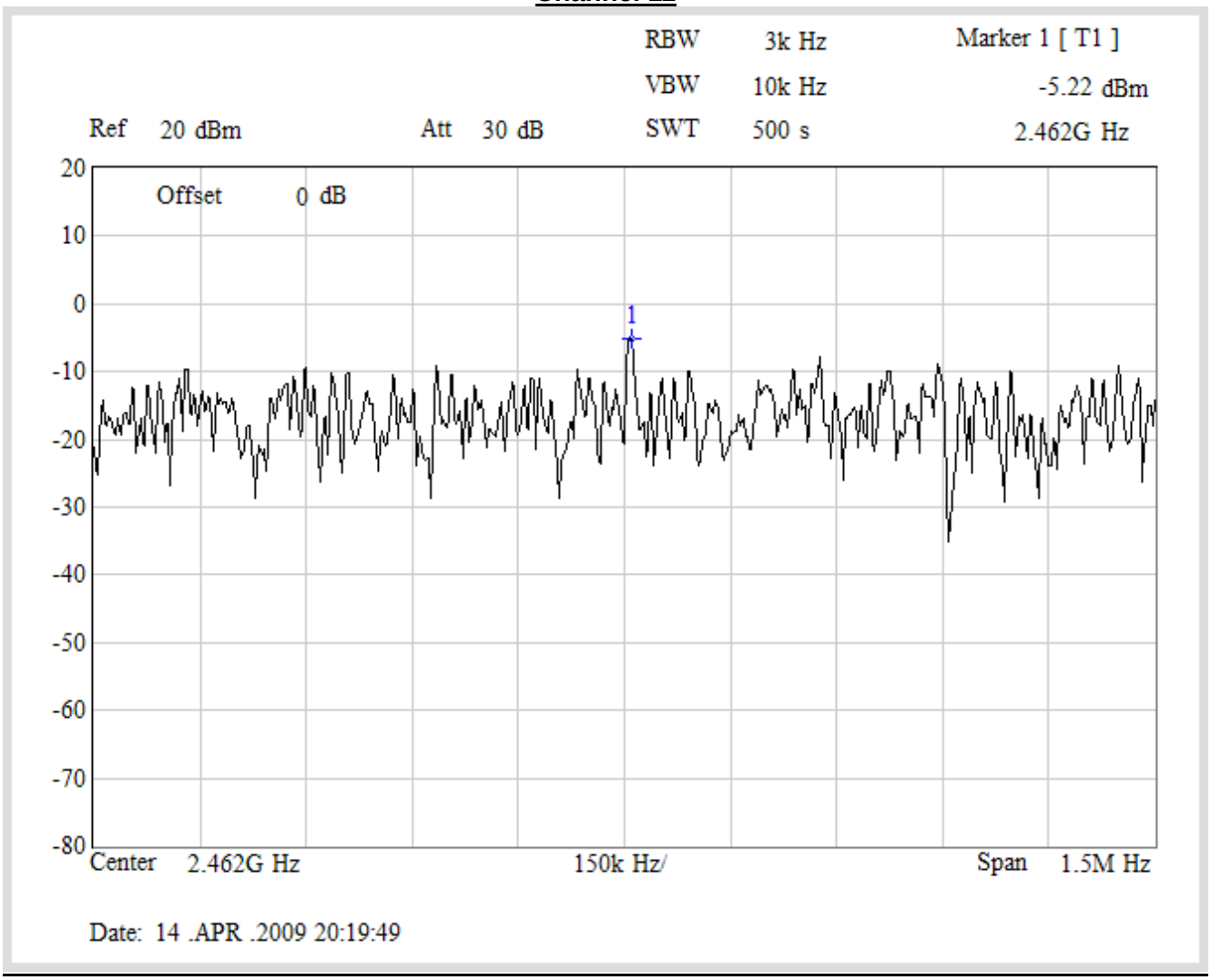
Channel 1



Channel 6


RBW 3k Hz
VBW 10k Hz
SWT 500 s
Marker 1 [T1]
-4.74 dBm
2.437G Hz
Ref 20 dBm
Att 30 dB
Offset 0 dB
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
1
Center 2.437G Hz
150k Hz/
Span 1.5M Hz
Date: 14 .APR .2009 20:17:59

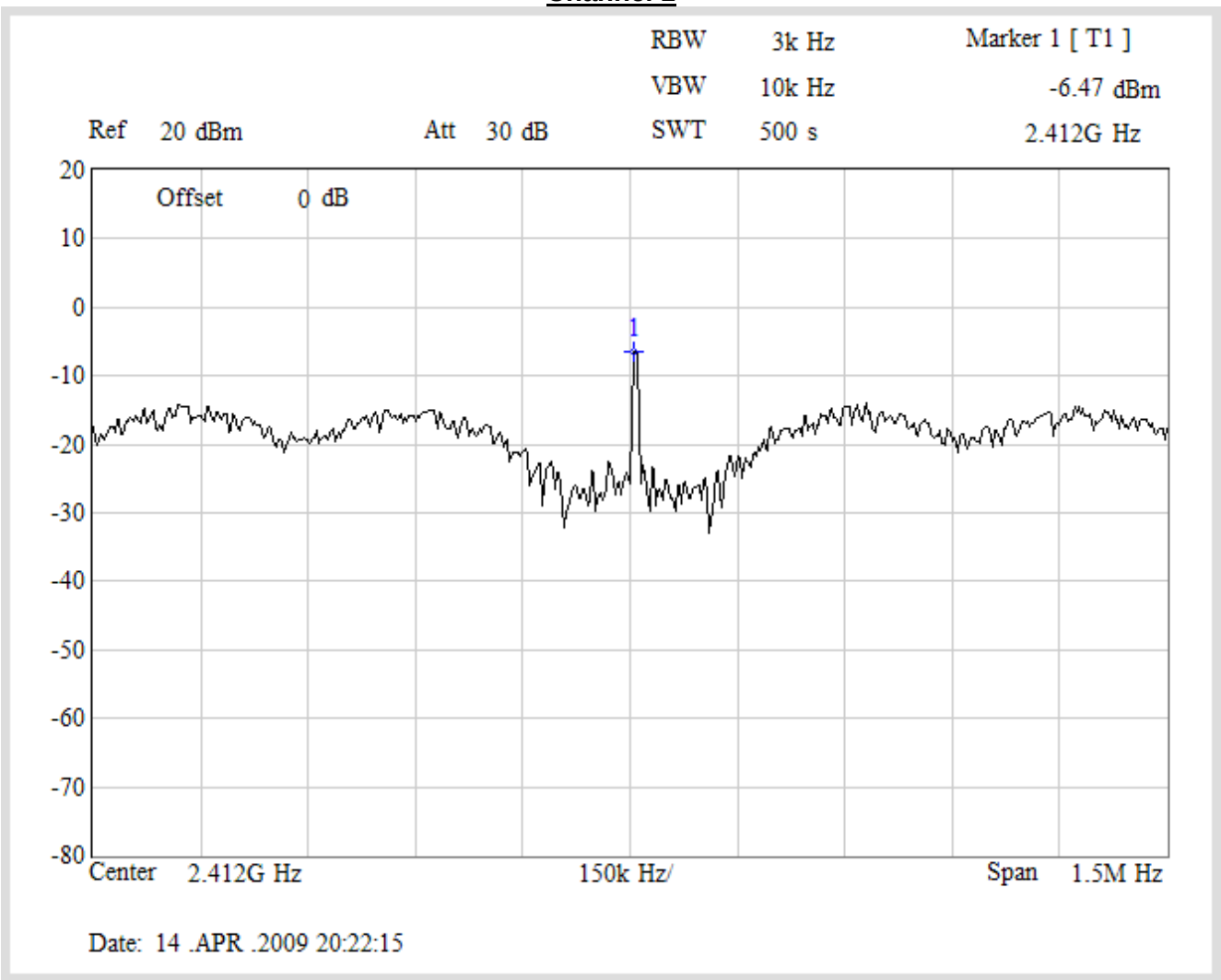
Channel 11


RBW 3k Hz
VBW 10k Hz
SWT 500 s
Marker 1 [T1]
-5.22 dBm
2.462G Hz
Ref 20 dBm
Att 30 dB
Offset 0 dB
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
1
Center 2.462G Hz
150k Hz/
Span 1.5M Hz
Date: 14 .APR .2009 20:19:49

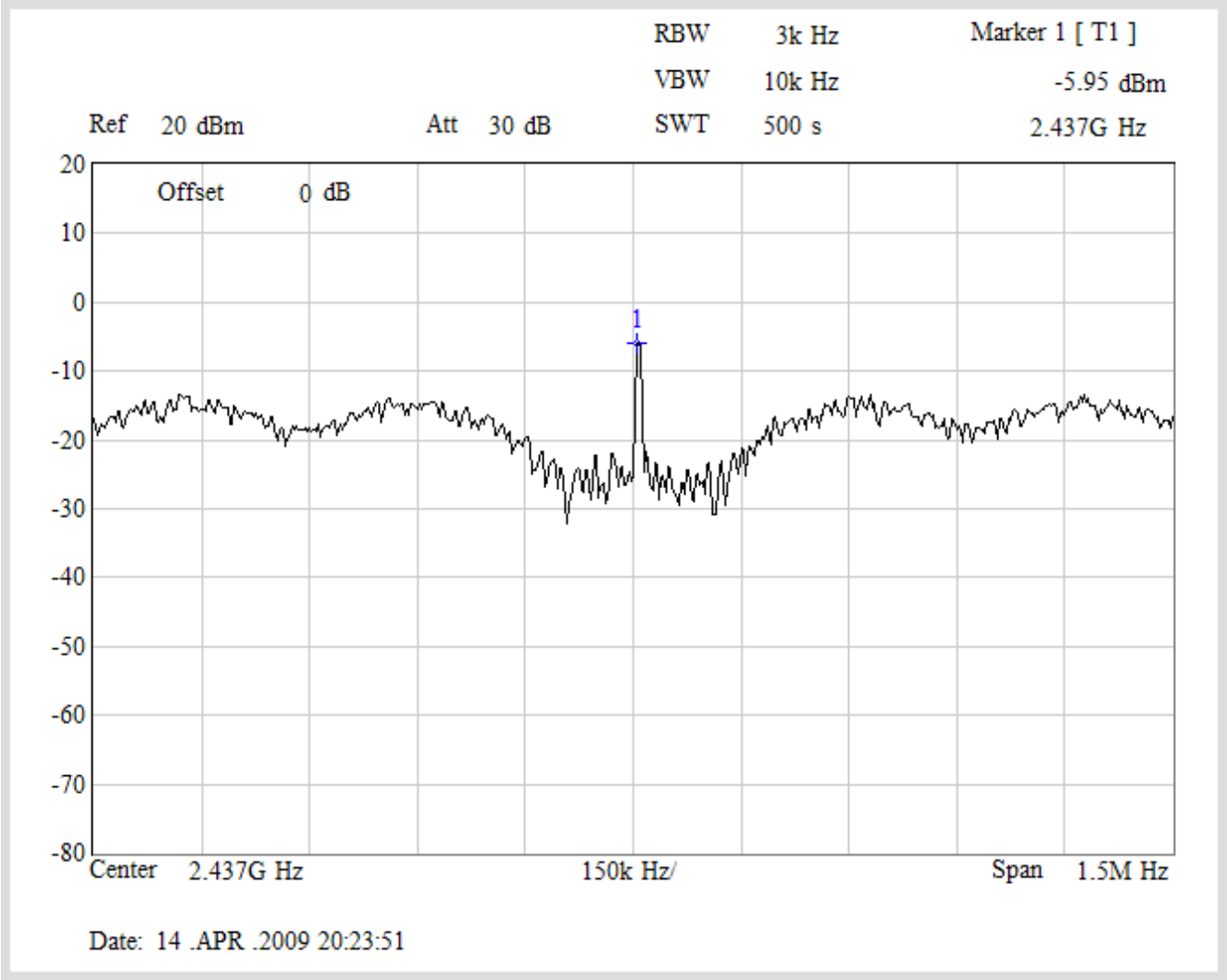
Product	Wireless N Router with All-in-One Printer Server		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2009/04/14	Test Site	No.1 OATS

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-6.47	≦8	Pass
6	2437	-5.95	≦8	Pass
11	2462	-6.39	≦8	Pass

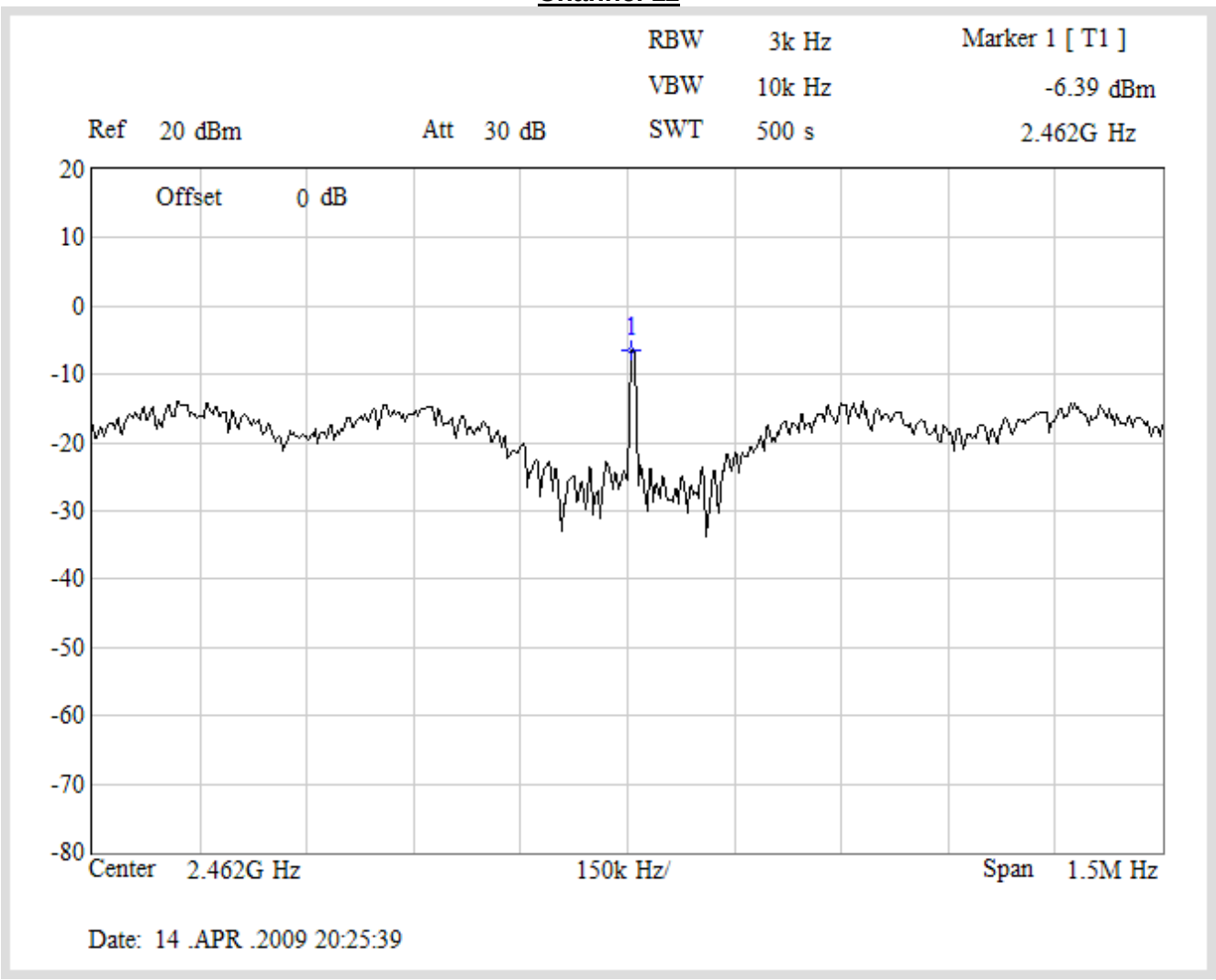
Channel 1



Channel 6


RBW 3k Hz
VBW 10k Hz
SWT 500 s
Marker 1 [T1]
-5.95 dBm
2.437G Hz
Ref 20 dBm
Att 30 dB
Offset 0 dB
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
1
Center 2.437G Hz
150k Hz/
Span 1.5M Hz
Date: 14 .APR .2009 20:23:51

Channel 11


RBW 3k Hz
VBW 10k Hz
SWT 500 s
Marker 1 [T1]
-6.39 dBm
2.462G Hz
Ref 20 dBm
Att 30 dB
Offset 0 dB
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
1
Center 2.462G Hz
150k Hz/
Span 1.5M Hz
Date: 14 .APR .2009 20:25:39

Product	Wireless N Router with All-in-One Printer Server		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2009/04/14	Test Site	No.1 OATS

IEEE802.11n MCS15 20MHz_2TX; ANT A					
Channel No.	Frequency (MHz)	Measure Level		Limit (dBm)	Result
		(dBm)	(mW)		
1	2412.00	-9.54	0.1112	≦8	Pass
6	2437.00	-8.86	0.1300	≦8	Pass
11	2462.00	-9.28	0.1180	≦8	Pass

IEEE802.11n MCS15 20MHz_2TX; ANT B					
Channel No.	Frequency (MHz)	Measure Level		Limit (dBm)	Result
		(dBm)	(mW)		
1	2412.00	-9.67	0.1079	≦8	Pass
6	2437.00	-10.21	0.0953	≦8	Pass
11	2462.00	-9.91	0.1021	≦8	Pass

IEEE802.11n MCS15 20MHz_2TX; ANT A + ANT B ; Note 1 & Note 2					
Channel No.	Frequency (MHz)	Measure Level		Limit(dBm)	Result
		(dBm)	(mW)		
1	2412	-6.59	0.2191	≦8	Pass
6	2437	-6.47	0.2253	≦8	Pass
11	2462	-6.57	0.2201	≦8	Pass

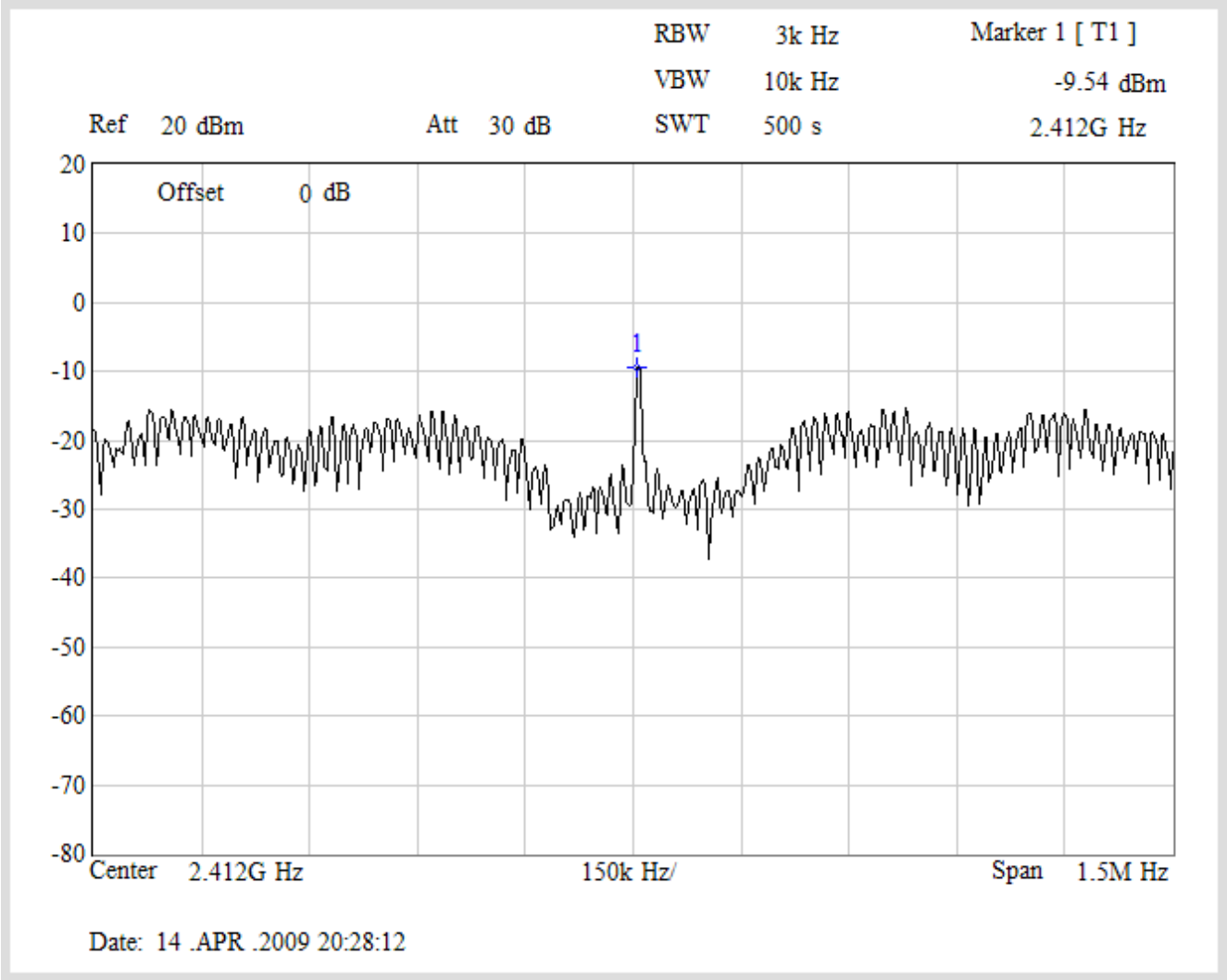
Note:

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]

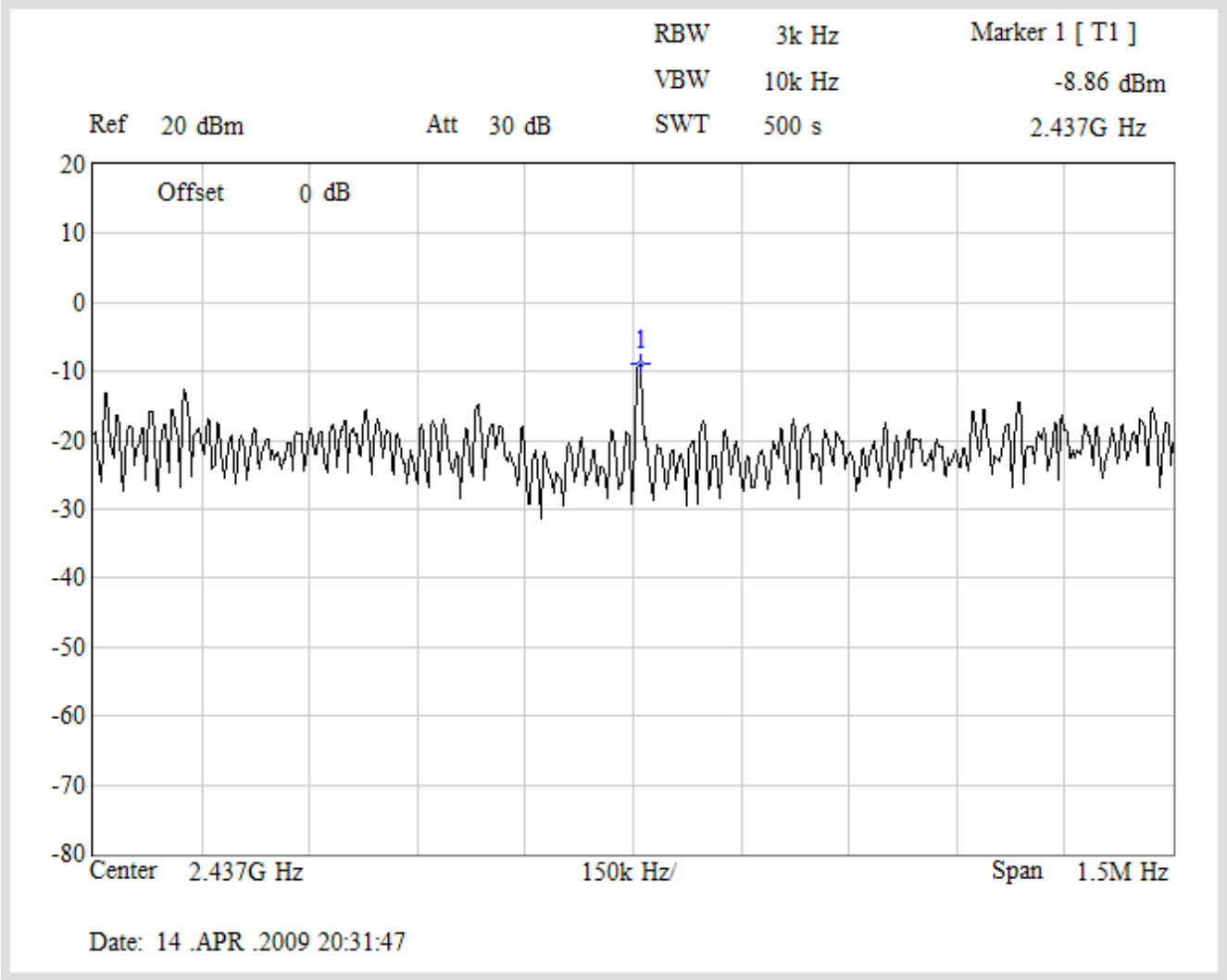
IEEE802.11n MCS15 20MHz_2TX; ANT A

Channel 1



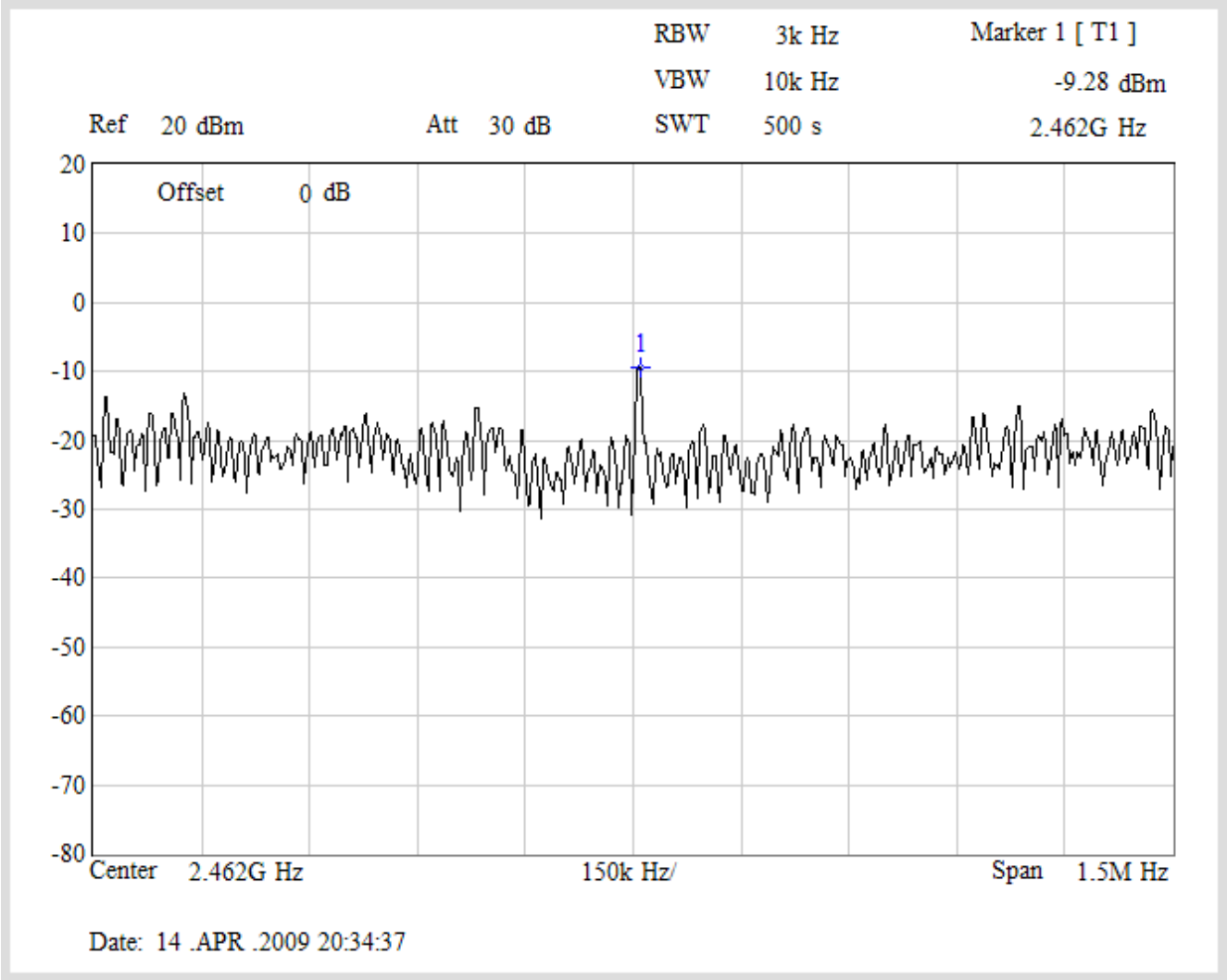
IEEE802.11n MCS15 20MHz_2TX; ANT A

Channel 6



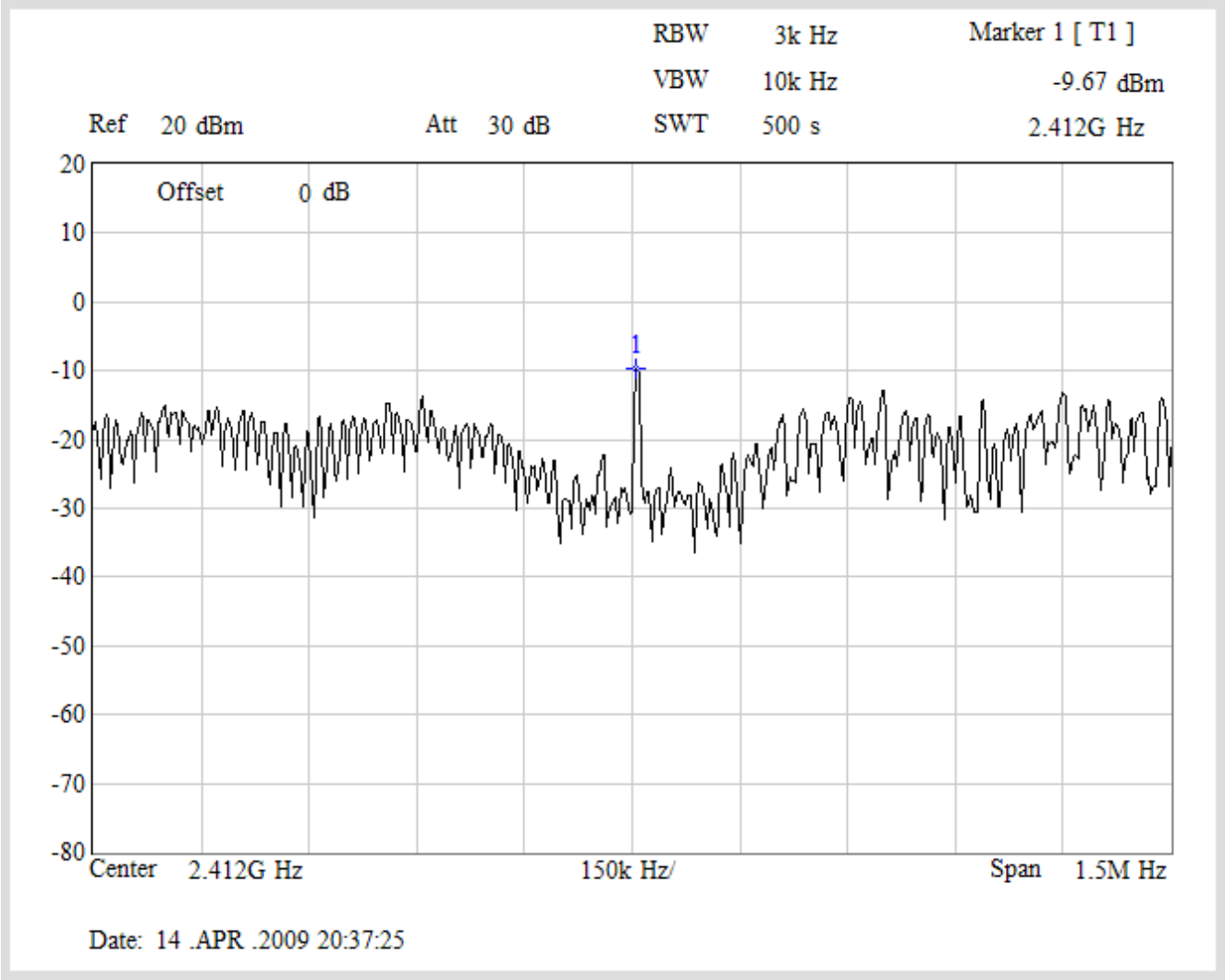
IEEE802.11n MCS15 20MHz_2TX; ANT A

Channel 11



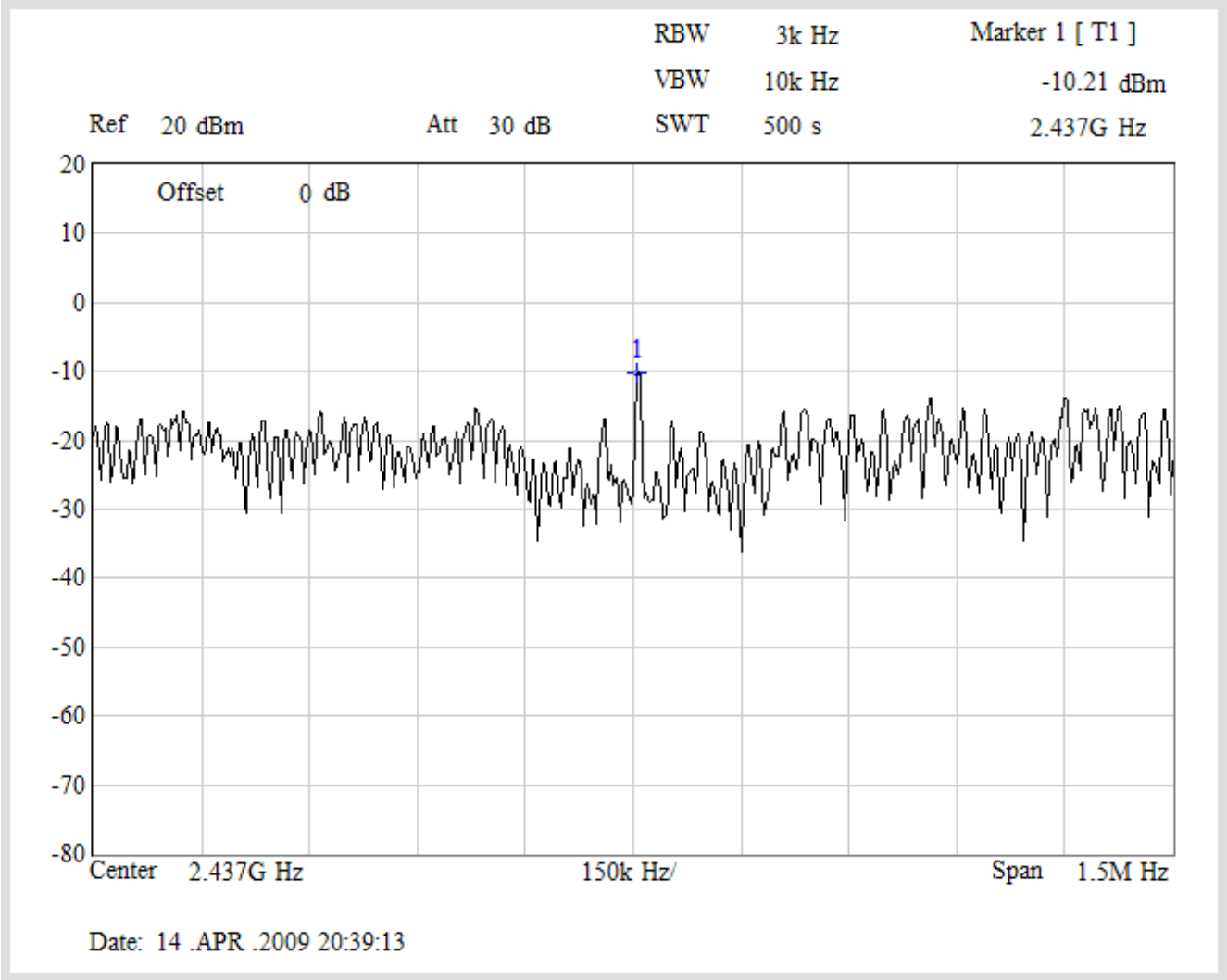
IEEE802.11n MCS15 20MHz_2TX; ANT B

Channel 1



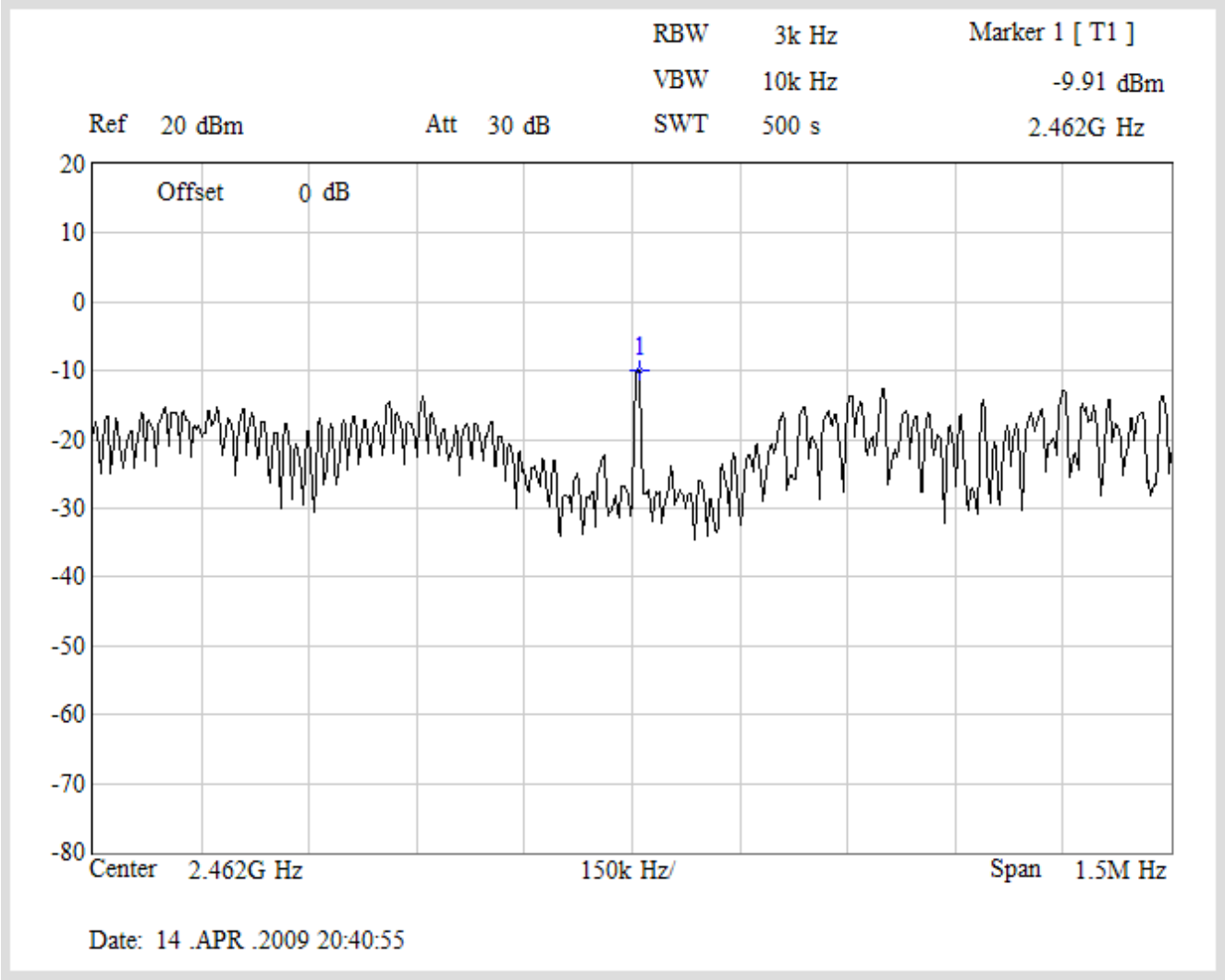
IEEE802.11n MCS15 20MHz_2TX; ANT B

Channel 6



IEEE802.11n MCS15 20MHz_2TX; ANT B

Channel 11



Product	Wireless N Router with All-in-One Printer Server		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2009/04/14	Test Site	No.1 OATS

IEEE 802.11n MCS15 40MHz_2TX ; ANT A					
Channel No.	Frequency (MHz)	Measure Level		Limit (dBm)	Result
		(dBm)	(mW)		
3	2422	-9.72	0.1067	≦8	Pass
6	2437	-9.27	0.1183	≦8	Pass
9	2452	-9.91	0.1021	≦8	Pass

IEEE 802.11n MCS15 40MHz_2TX ; ANT B					
Channel No.	Frequency (MHz)	Measure Level		Limit (dBm)	Result
		(dBm)	(mW)		
3	2422	-9.98	0.1005	≦8	Pass
6	2437	-10.3	0.0933	≦8	Pass
9	2452	-10.41	0.0910	≦8	Pass

IEEE802.11n ;MCS15 40MHz_2TX ; ANT A + ANT B					
Channel No.	Frequency (MHz)	Measure Level		Limit(dBm)	Result
		(dBm)	(mW)		
3	2422	-6.84	0.2071	≦8	Pass
6	2437	-6.74	0.2116	≦8	Pass
9	2452	-7.14	0.1931	≦8	Pass

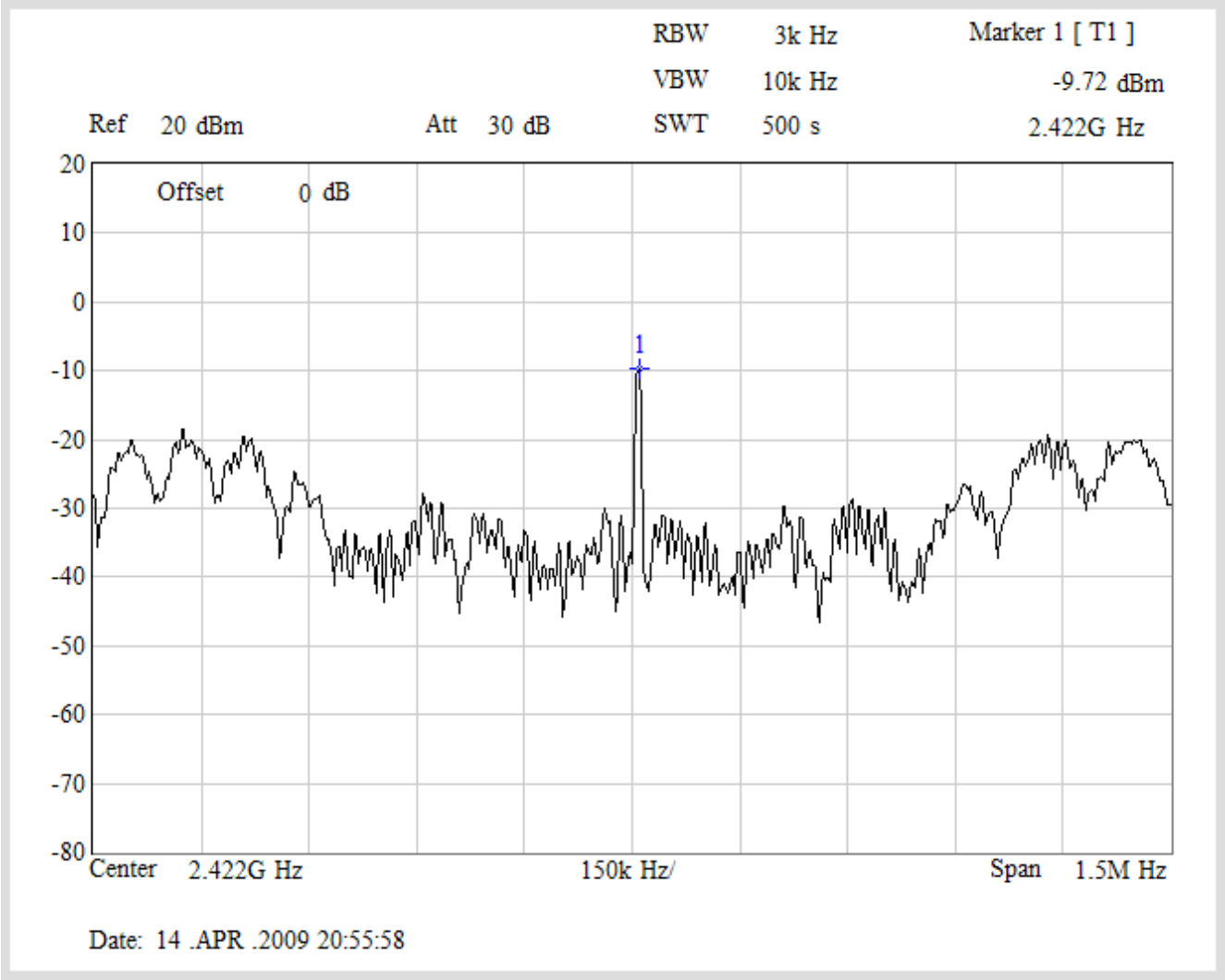
Note:

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]

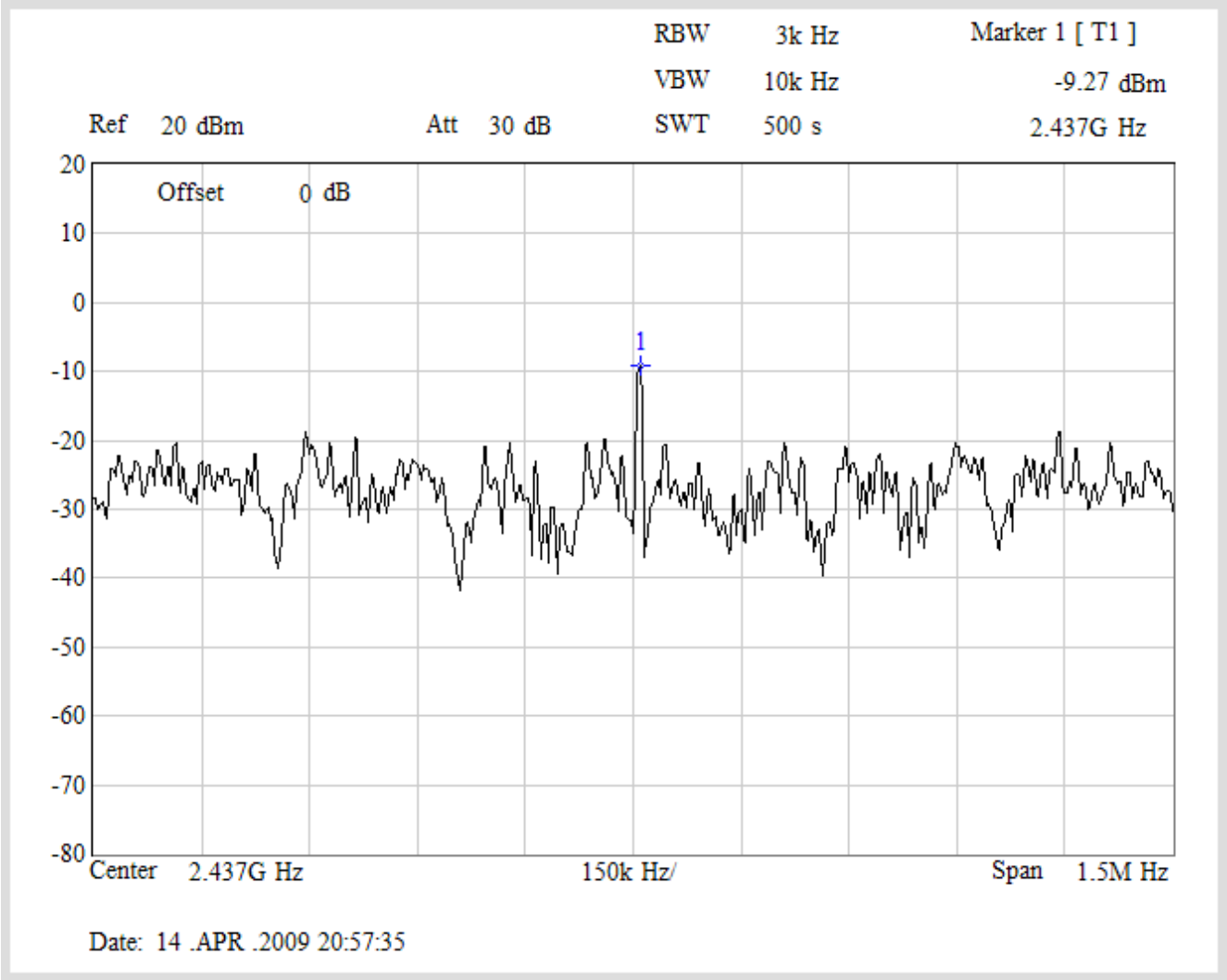
IEEE 802.11n MCS15 40MHz_2TX ; ANT A

Channel 3



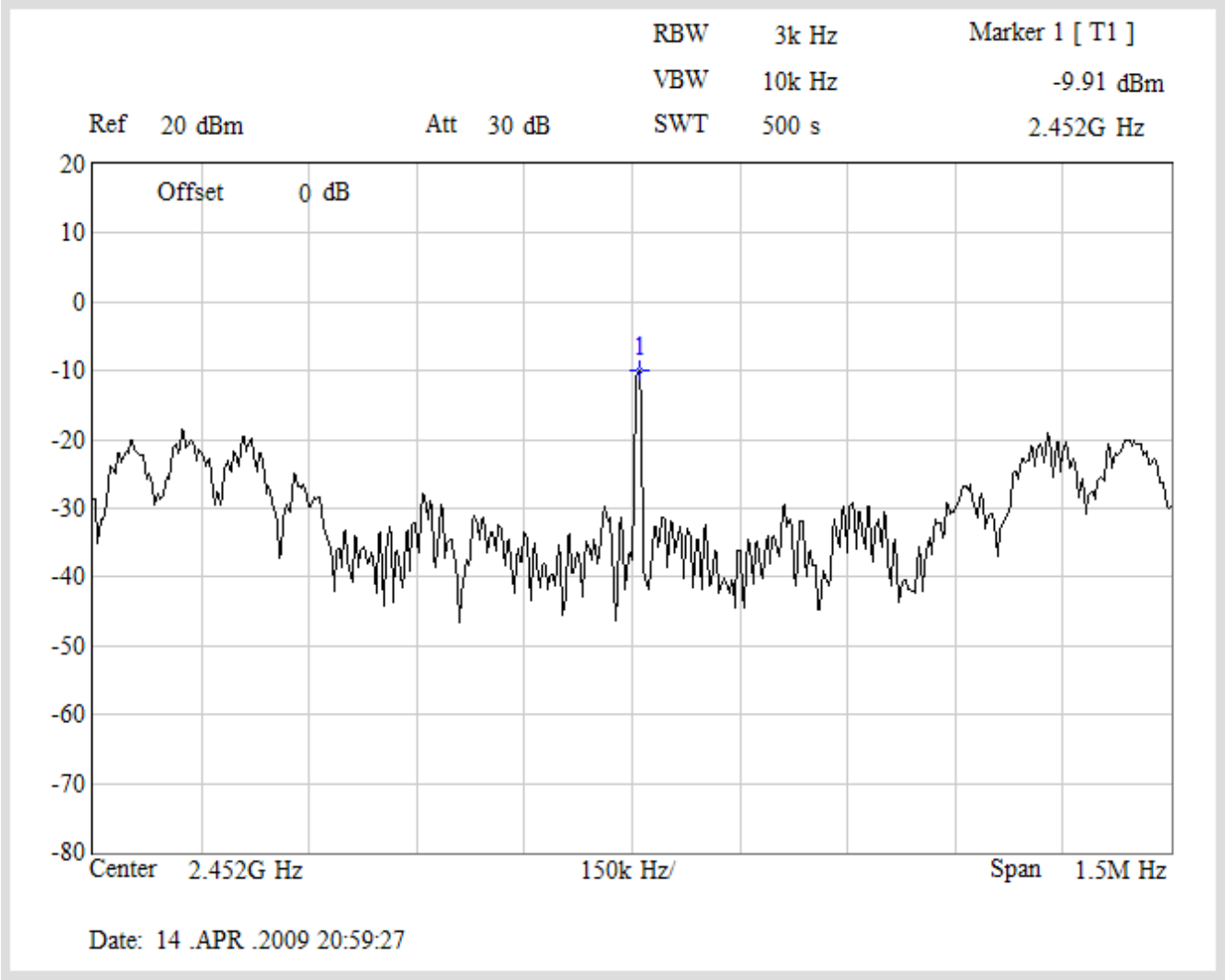
IEEE 802.11n MCS15 40MHz_2TX ; ANT A

Channel 6



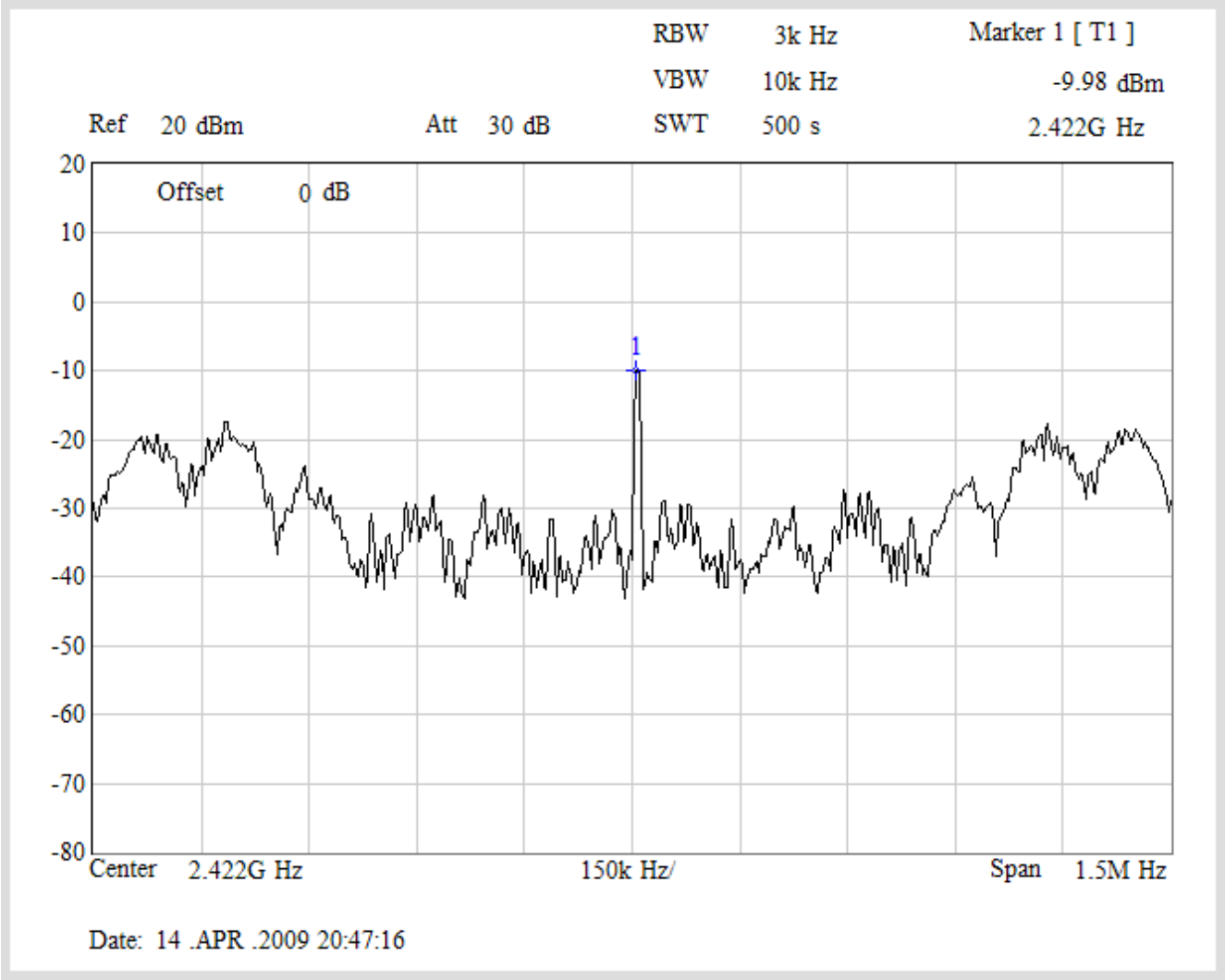
IEEE 802.11n MCS15 40MHz_2TX ; ANT A

Channel 9



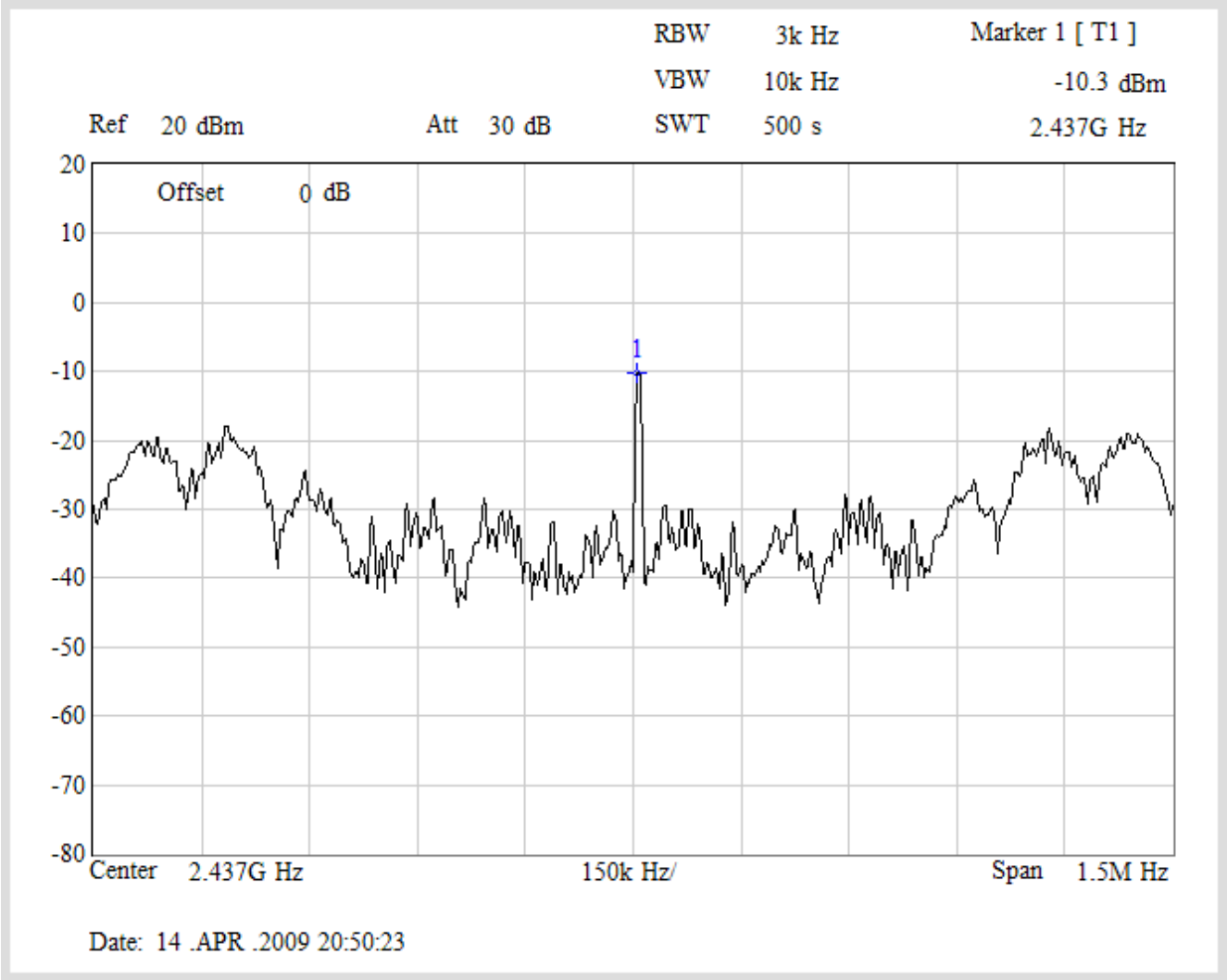
IEEE 802.11n MCS15 40MHz_2TX ; ANT B

Channel 3



IEEE 802.11n MCS15 40MHz_2TX ; ANT B

Channel 6



IEEE 802.11n MCS15 40MHz_2TX ; ANT B

Channel 9