Test Report

Product Name ： Wireless 802.11n ADSL2/2+ 4-port Ethernet Router
Model No. ： DSL-2740B, DSL-2740U, DSL-2741B, DSL-2741U, DSL-2750B
FCC ID. ： KA2SL2740BF1

Applicant ： D-Link Corporation
Address ： No.289, Sinhu 3rd Rd., Neihu District, Taipei City 114, Taiwan, R.O.C.

Date of Receipt ： 2011/03/22
Issued Date ： 2011/05/12
Report No. ： 113335R-RFUSP42V01
Report Version ： V1.0

Test Report Certification

Issued Date : 2011/05/12
Report No. : 113335R-RFUSP42V01

QuieTek

Product Name	:	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router
Applicant	:	D-Link Corporation
Address	:	No.289, Sinhu 3rd Rd., Neihu District, Taipei City 114, Taiwan, R.O.C.
Manufacturer	:	Ayecom Technology Co., Ltd.
MODEL NO.	:	DSL-2740B, DSL-2740U, DSL-2741B, DSL-2741U, DSL-2750B
FCC ID.	:	KA2SL2740BF1
EUT Voltage	:	AC 100-240V ~ 43-63Hz AC 120V~60Hz
Trade Name	:	D-Link
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2010
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 : Sandy Chuang
(Sandy Chuang / Engineering Adm. Specialist)

Reviewed By : Ben Huang
(Ben Huang / Engineer)

Approved By : Roy Wang
(Roy Wang / Manager)

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1. General Information

1.1. EUT Description

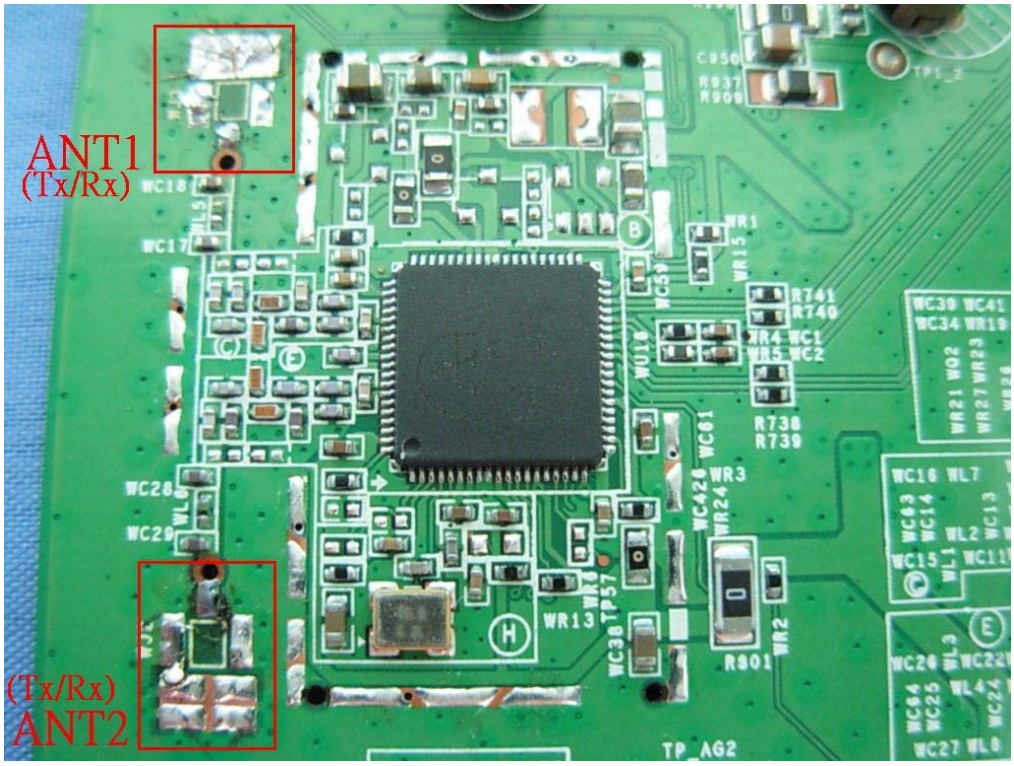
Product Name	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router
Product Type	WLAN (2TX, 2RX)
Trade Name	D-Link
Model No.	DSL-2740B, DSL-2740U, DSL-2741B, DSL-2741U, DSL-2750B
Frequency Range -IEEE 802.11b/g & IEEE 802.11n (20MHz)	2412~2462MHz
Frequency Range- IEEE 802.11n (40MHz)	2422~2452MHz
Channel Number (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/n)	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 Gain	2dBi
Channel Control	Manual
Antenna Type	Monopole

Component	
LAN Cable	Non-Shielded, 1.0m
DSL Cable	Non-Shielded, 1.5m
Power Adapter	CWT, CAP012121US I/P: 100-240V ~ 47-63Hz, 0.35A O/P: 12.0V⎓1.0A Cable Out: Non-Shielded, 1.8m
Power Adapter	LEI, MT12-Y120100-A1 I/P: 120V~60Hz 0.3A O/P: 12.0V⎓1.0A Cable Out: Non-Shielded, 1.8m

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	✓					
IEEE802.11n			✓	✓	✓	✓

ANT (TX / RX)



IEEE802.11n Spec.

MCS Index	Modulation	R	N_{BPSCS}	N_{CBPS}		N_{DBPS}		Data Rate(Mb/s)			
				20MHz	40MHz	20MHz	40MHz	800ns GI		400ns GI (Note1)	
								20MHz	40MHz	20MHz	40MHz
0	BPSK	1/2	1	52	108	26	54	6.5	13.5	7.2	15.0
1	QPSK	1/2	2	104	216	52	108	13.0	27.0	14.4	30.0
2	QPSK	3/4	2	104	216	78	162	19.5	40.5	21.7	45.0
3	16-QAM	1/2	4	208	432	104	216	26.0	54.0	28.9	60.0
4	16-QAM	3/4	4	208	432	156	324	39.0	81.0	43.3	90.0
5	64-QAM	2/3	6	312	648	208	432	52.0	108.0	57.8	120.0
6	64-QAM	3/4	6	312	648	234	486	58.5	121.5	65.0	135.0
7	64-QAM	5/6	6	312	648	260	540	65.0	135.0	72.2	150.0
Note 1: Support of 400ns GI is optional on transmit and receive.											

Table 1 – MCS parameters for TX Antenna number = 1

MCS Index	Modulation	R	N_{BPSCS}	N_{CBPS}		N_{DBPS}		Data Rate(Mb/s)			
				20MHz	40MHz	20MHz	40MHz	800ns GI		400ns GI (Note1)	
								20MHz	40MHz	20MHz	40MHz
8	BPSK	1/2	1	104	216	52	108	13.0	27.0	14.4	30.0
9	QPSK	1/2	2	208	432	104	216	26.0	54.0	28.9	60.0
10	QPSK	3/4	2	208	432	156	324	39.0	81.0	43.3	90.0
11	16-QAM	1/2	4	416	864	208	432	52.0	108.0	57.8	120.0
12	16-QAM	3/4	4	416	864	312	648	78.0	162.0	86.7	180.0
13	64-QAM	2/3	6	624	1296	416	864	104.0	216.0	115.6	240.0
14	64-QAM	3/4	6	624	1296	468	972	117.0	243.0	130.0	270.0
15	64-QAM	5/6	6	624	1296	520	1080	130.0	270.0	144.4	300.0
Note 1: Support of 400ns GI is optional on transmit and receive.											

Table 2 – MCS parameters for TX Antenna number = 2

Symbol	Explanation
R	Code rate
N_{BPSC}	Number of coded bits per single carrier
N_{CBPS}	Number of coded bits per symbol
N_{DBPS}	Number of data bits per symbol
GI	guard interval

IEEE 802.11b/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 802.11n ADSL2/2+ 4-port Ethernet Router, which including 2.4GHz b/g and 11n (2x2) transmitting and receiving function.
2. The difference between Annex A and B is: ADSL RX filter circuit, capacitance, inductance value of the replacement.
   DSL-2750B & DSL-2740B & DSL-2740U for Annex A, DSL-2741B & DSL-2741U for Annex B.
   DSL-2740B is the same with DSL-2740U, DSL-2741B is the same with DSL-2741U
   DSL-2750B: Annex A, full set with USB & with dying gasp
   DSL-2741B & DSL-2741U: Annex B, full set, with USB & with dying gasp
   DSL-2740B & DSL-2740U: Annex A, without USB & without dying gasp
   Dying gasp function: after power failure, CPE will send message to co the central received message will know which had power failure.
   There are three additional capacitors for dying gasp function, C140, C141 and C142.
3. After the pre-test, only the worst case, DSL-2750B, was recorded in this report.
4. These test results on a sample of the device are for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.247.
5. 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.
6. This device is a composite device in accordance with Part 15 regulations. The receiving function receiving was tested and its test report number is 113335R-RFUSP37V02 under Declaration of Conformity.

1.3. Test Mode

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

TX	Mode 1: Transmit (CAP012121) Mode 2: Transmit (MU12-Y120100-A1)

Test Items	Mode		Channel	Result
Conducted Emission	1/2	11n (40MHz)	6	Complies
Peak Power Output	1	b/g	1 /6/ 11	Complies
	1	11n(20MHz)	1 /6/ 11	Complies
	1	11n(40MHz)	3 /6/ 9	Complies
Radiated Emission (Under 1GHz)	1/2	b/g	6	Complies
	1/2	11n(20MHz)	6	Complies
	1/2	11n(40MHz)	6	Complies
Radiated Emission (Above 1GHz)	1	b/g	1 /6/ 11	Complies
	1	11n(20MHz)	1 /6/ 11	Complies
	1	11n(40MHz)	3 /6/ 9	Complies
RF antenna conducted test	1	b/g	1 /11	Complies
	1	11n(20MHz)	1 /11	Complies
	1	11n(40MHz)	3 /9	Complies
Radiated Emission Band Edge	1	b/g	1 /11	Complies
	1	11n(20MHz)	1 /11	Complies
	1	11n(40MHz)	3 /9	Complies
Occupied Bandwidth	1	b/g	1 /6/ 11	Complies
	1	11n(20MHz)	1 /6/ 11	Complies
	1	11n(40MHz)	3 /6/ 9	Complies
Power Density	1	b/g	1 /6/ 11	Complies
	1	11n(20MHz)	1 /6/ 11	Complies
	1	11n(40MHz)	3 /6/ 9	Complies

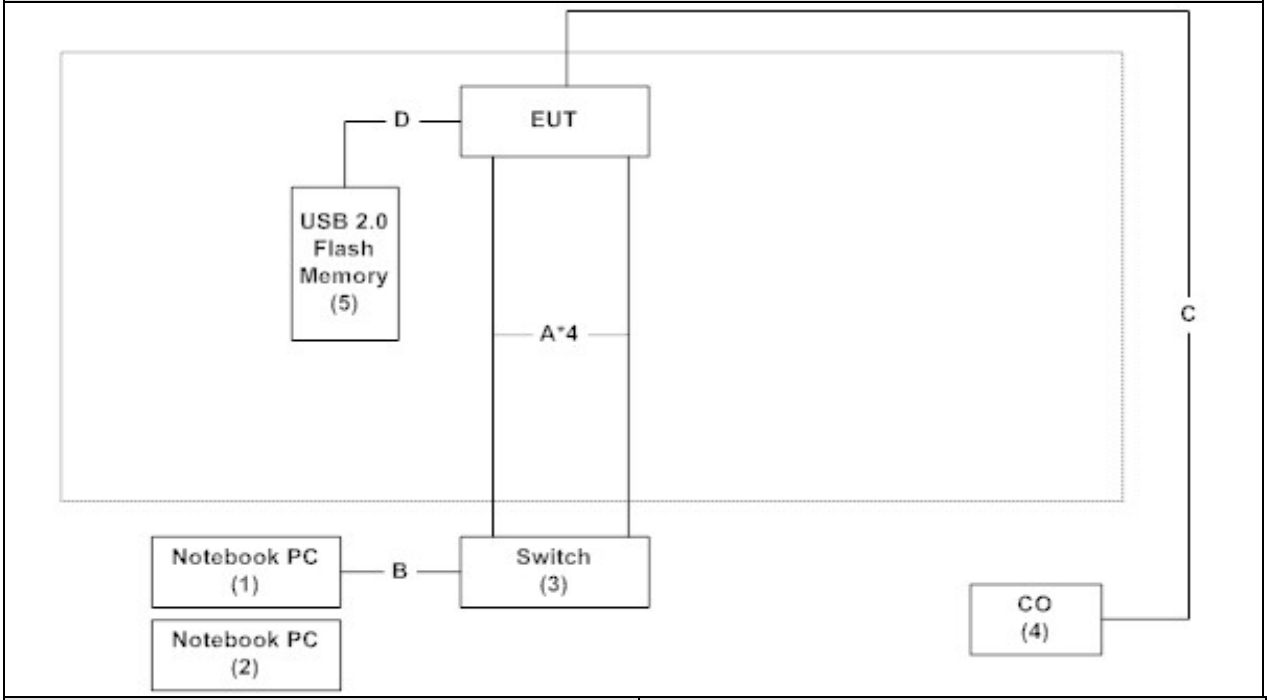
1.4. Tested System Details

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	HP Compaq	NX6320FF	CNU7020BXT	DoC	Non-Shielded, 1.8m
2	Notebook PC	DELL	PP26L	66TLZ1S	DoC	Non-Shielded, 1.8m
3	Switch	D-Link	DGS-1224TP	F3WB1A000003	DoC	Non-Shielded, 1.8m
4	CO	Tecom	M801	N/A	DoC	--
5	USB 2.0 Flash Memory	Sony	USM2GJX	N/A	DoC	--

1.5. Configuration of tested System

Connection Diagram



Signal Cable Type		Signal cable Description
A	LAN Cable	Non-Shielded, 3.0m, 4PCS
B	LAN Cable	Non-Shielded, 1.0m
C	DSL Cable	Non-Shielded, 3.0m
D	USB 2.0 Flash Memory Cable	Shielded, 0.5m

1.6. EUT Exercise Software

1	Setup the EUT as shown in Section 1.5
2	Execute the “ART” program to control the EUT.
3	Configure the test mode, the test channel, and the data rate.
4	The EUT will continue transmitting.
5	Verify that the EUT works properly.
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	25
Humidity (%RH)		25 - 75	46
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 RF antenna conducted test (DSSS)	15 - 35	24
Humidity (%RH)		25 - 75	49
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Band Edge (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	48
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	46
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Power Density (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	48
Barometric pressure (mbar)		860 - 1060	950-1000

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

Accredited by NVLAP
NVLAP Lab Code: 200347-0
Effective through: September 30, 2011

Site Name: Quietek Corporation

Site Address: No.75-2, 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

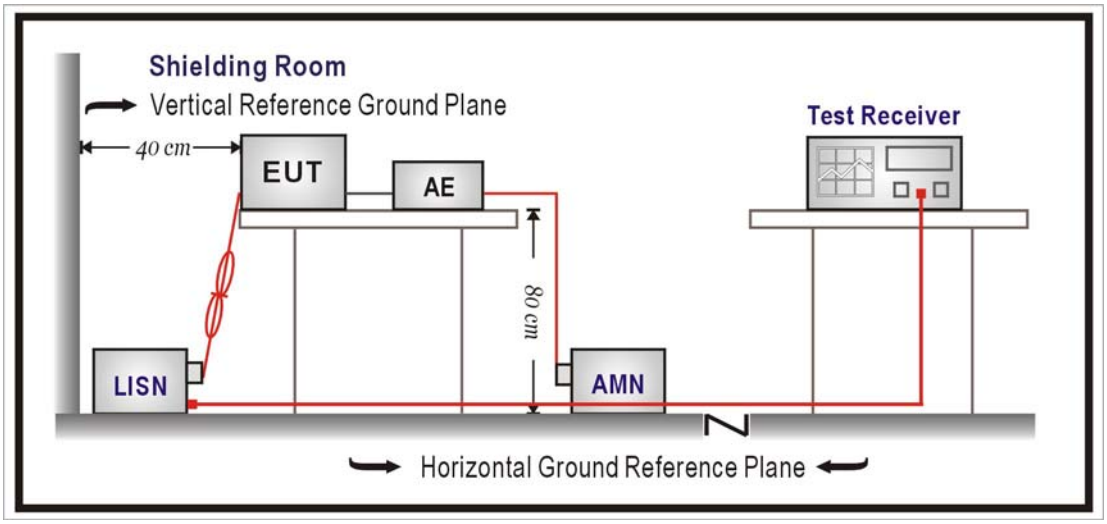
The following test equipments are used during the test:

Conducted Emission/ SR2

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2012/02/29
LISN	R&S	ENV216	100092	2011/09/12
Test Receiver	R&S	ESCS 30	825442/014	2011/09/02
Quietek EMI system	Quietek	Version 2.2	SR2	N/A

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

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	QP	AV
0.15 - 0.50	66-56	56-46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT was setup according to ANSI C63.4: 2009 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 9 kHz.

2.5. Test Specification

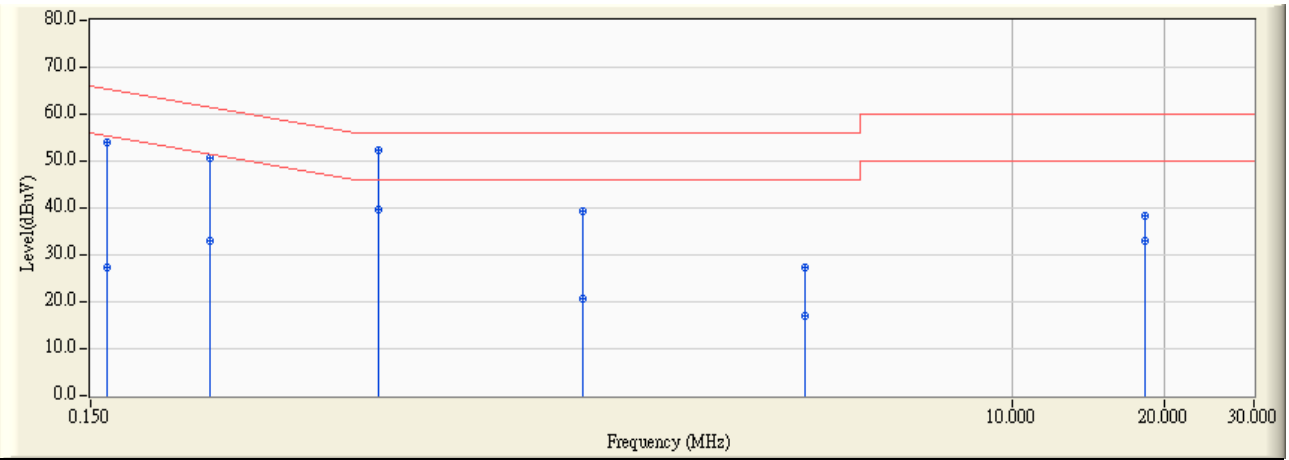
According to FCC Part 15 Subpart C Paragraph 15.207: 2010

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR2	Time : 2011/04/18 - 15:03
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A) - Line1	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437,802.11n(40M),Mode 1: Transmit (CAP012121)

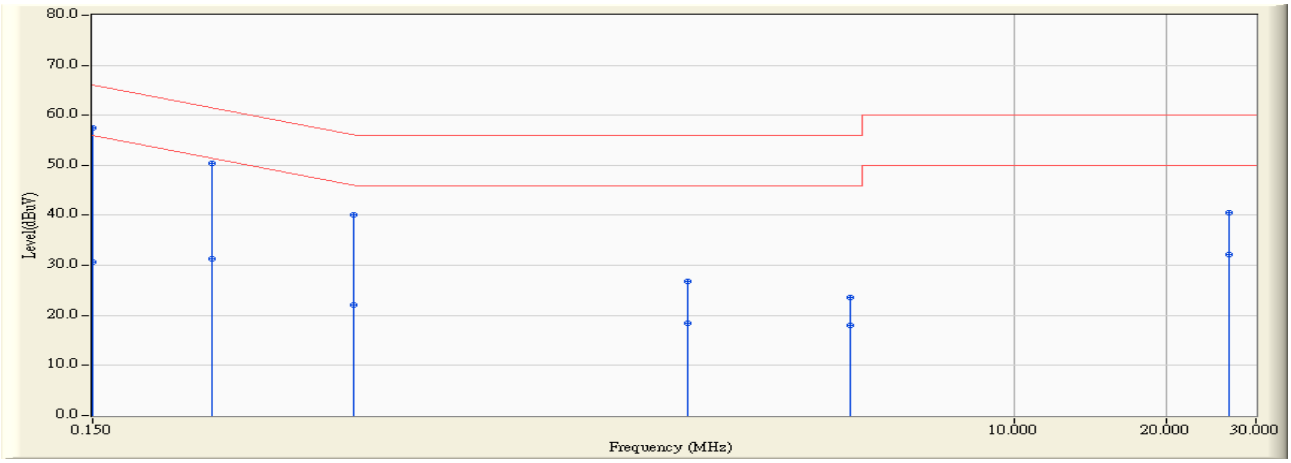


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	9.600	44.285	53.885	-11.476	65.361	QUASIPEAK
2		0.162	9.600	17.813	27.413	-27.947	55.361	AVERAGE
3		0.258	9.600	41.091	50.691	-10.805	61.496	QUASIPEAK
4		0.258	9.600	23.430	33.030	-18.466	51.496	AVERAGE
5		0.558	9.610	42.723	52.323	-3.677	56.000	QUASIPEAK
6	*	0.558	9.610	30.123	39.723	-16.277	46.000	AVERAGE
7		1.410	9.756	29.579	39.334	-16.666	56.000	QUASIPEAK
8		1.410	9.756	10.864	20.620	-25.380	46.000	AVERAGE
9		3.890	9.837	17.433	27.270	-28.730	56.000	QUASIPEAK
10		3.890	9.837	7.247	17.084	-28.916	46.000	AVERAGE
11		18.242	10.317	27.944	38.261	-21.739	60.000	QUASIPEAK
12		18.242	10.317	22.647	32.964	-17.036	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 : 2011/04/18 - 15:05
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A) - Line2	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437,802.11n(40M),Mode 1: Transmit (CAP012121)

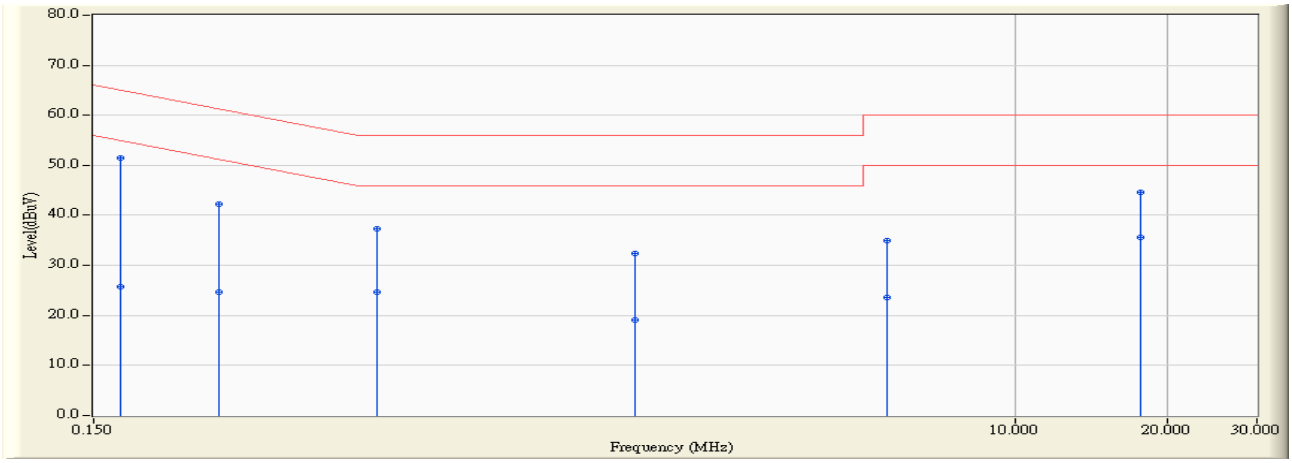


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.150	9.599	47.917	57.516	-8.484	66.000	QUASIPEAK
2		0.150	9.599	21.017	30.615	-25.385	56.000	AVERAGE
3		0.258	9.600	40.894	50.494	-11.002	61.496	QUASIPEAK
4		0.258	9.600	21.691	31.291	-20.205	51.496	AVERAGE
5		0.494	9.600	30.443	40.043	-16.058	56.100	QUASIPEAK
6		0.494	9.600	12.507	22.107	-23.993	46.100	AVERAGE
7		2.258	9.789	17.040	26.829	-29.171	56.000	QUASIPEAK
8		2.258	9.789	8.710	18.499	-27.501	46.000	AVERAGE
9		4.734	9.880	13.812	23.692	-32.308	56.000	QUASIPEAK
10		4.734	9.880	8.044	17.923	-28.077	46.000	AVERAGE
11		26.610	10.739	29.708	40.447	-19.553	60.000	QUASIPEAK
12		26.610	10.739	21.537	32.276	-17.724	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 : 2011/04/18 - 14:51
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A) - Line1	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437,802.11n(40M),Mode 2: Transmit (MU12-Y120100-A1)

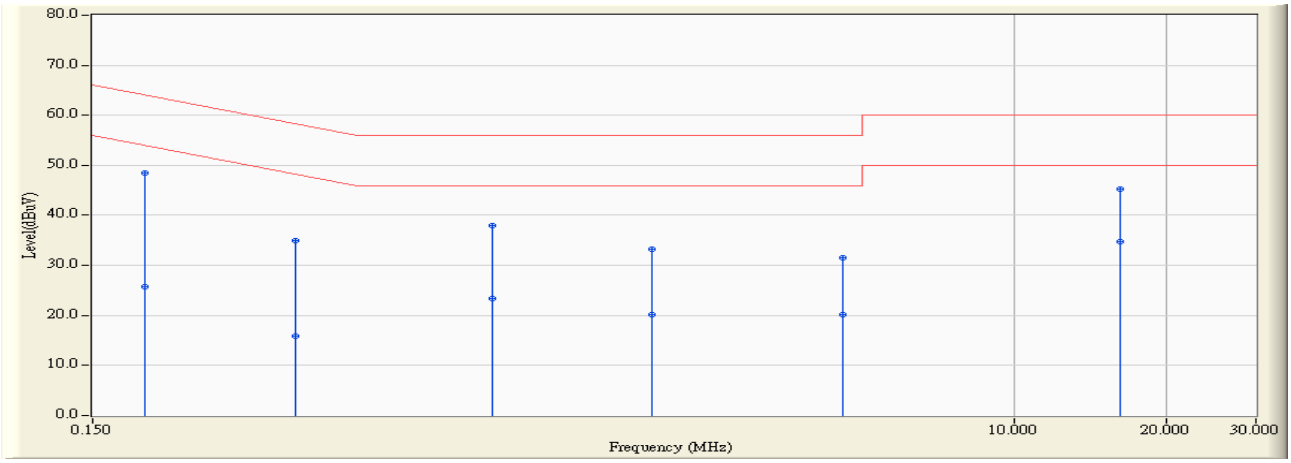


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.170	9.600	41.823	51.423	-13.537	64.960	QUASIPEAK
2		0.170	9.600	16.081	25.681	-29.279	54.960	AVERAGE
3		0.266	9.600	32.562	42.162	-19.080	61.242	QUASIPEAK
4		0.266	9.600	15.019	24.619	-26.623	51.242	AVERAGE
5		0.546	9.610	27.702	37.312	-18.688	56.000	QUASIPEAK
6		0.546	9.610	15.144	24.754	-21.246	46.000	AVERAGE
7		1.766	9.783	22.557	32.340	-23.660	56.000	QUASIPEAK
8		1.766	9.783	9.227	19.010	-26.990	46.000	AVERAGE
9		5.582	9.893	25.054	34.947	-25.053	60.000	QUASIPEAK
10		5.582	9.893	13.601	23.494	-26.506	50.000	AVERAGE
11		17.694	10.301	34.360	44.661	-15.339	60.000	QUASIPEAK
12		17.694	10.301	25.264	35.565	-14.435	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 : 2011/04/18 - 14:53
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A) - Line2	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437,802.11n(40M),Mode 2: Transmit (MU12-Y120100-A1)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.190	9.600	38.953	48.553	-15.484	64.037	QUASIPEAK
2		0.190	9.600	16.197	25.797	-28.240	54.037	AVERAGE
3		0.378	9.600	25.449	35.049	-23.275	58.323	QUASIPEAK
4		0.378	9.600	6.168	15.768	-32.555	48.323	AVERAGE
5		0.926	9.645	28.226	37.871	-18.129	56.000	QUASIPEAK
6		0.926	9.645	13.654	23.299	-22.701	46.000	AVERAGE
7		1.910	9.777	23.442	33.220	-22.780	56.000	QUASIPEAK
8		1.910	9.777	10.375	20.152	-25.848	46.000	AVERAGE
9		4.558	9.872	21.646	31.518	-24.482	56.000	QUASIPEAK
10		4.558	9.872	10.357	20.229	-25.771	46.000	AVERAGE
11	*	16.166	10.389	34.862	45.251	-14.749	60.000	QUASIPEAK
12		16.166	10.389	24.435	34.825	-15.175	50.000	AVERAGE

Note:

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

3. Peak Power Output

3.1. Test Equipment

The following test equipments are used during the test:

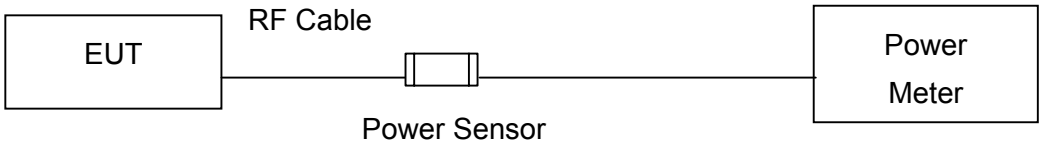
Peak Power / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Power Meter	Agilent	N1911A	MY45101353	2012/01/04
Power Sensor	Agilent	N1921A	MY45241670	2012/01/04

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

3.2. Test Setup

IEEE 802.11 b / g / n (20M / 40M) 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. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2010

3.6. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

3.7. Test Result

Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	18.55	1Watt= 30 dBm	Pass
6	2437	18.17	1Watt= 30 dBm	Pass
11	2462	17.98	1Watt= 30 dBm	Pass

The worst emission of data rate is 1 Mbps.

Peak Power Output Value (dBm)						
Channel No.	Frequency (MHz)	Data Rate				Required Limit
		1	2	5.5	11	
1	2412	18.55	18.47	18.52	18.42	1Watt= 30 dBm
6	2437	18.17	18.15	18.12	18.06	1Watt= 30 dBm
11	2462	17.98	17.91	17.83	17.94	1Watt= 30 dBm

Note: Measure Level =Reading value + cable loss

Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	20.92	1Watt= 30 dBm	Pass
6	2437	23.36	1Watt= 30 dBm	Pass
11	2462	20.88	1Watt= 30 dBm	Pass

The worst emission of data rate is 6 Mbps.

Peak Power Output Value(dBm)										
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
1	2412	20.92	20.84	20.82	20.79	20.88	20.67	20.73	20.77	1Watt= 30 dBm
6	2437	23.36	23.19	23.22	23.14	23.17	23.09	23.12	23.17	1Watt= 30 dBm
11	2462	20.88	20.83	20.76	20.75	20.82	20.66	20.72	20.79	1Watt= 30 dBm

Note: Measure Level =Reading value + cable loss

Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE 802.11n(ANT A(20MHz))				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	19.18	1Watt= 30 dBm	Pass
6	2437	22.57	1Watt= 30 dBm	Pass
11	2462	19.25	1Watt= 30 dBm	Pass

The worst emission of data rate is 13Mbps.

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
1	2412	19.18	18.89	18.92	18.79	18.88	19.02	18.93	19.01	30dBm
6	2437	22.57	22.48	22.42	22.55	22.42	22.51	22.47	22.39	30dBm
11	2462	19.25	19.24	19.21	19.17	19.22	19.12	19.23	19.15	30dBm

Note: Measure Level =Reading value + cable loss

Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE 802.11n (ANT A(40MHz))				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	19.59	1Watt= 30 dBm	Pass
6	2437	22.29	1Watt= 30 dBm	Pass
9	2452	19.19	1Watt= 30 dBm	Pass

The worst emission of data rate is 27Mbps

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
3	2422	19.59	19.51	19.49	19.44	19.36	19.52	19.48	19.42	30dBm
6	2437	22.29	22.21	22.19	22.07	22.14	22.02	22.06	22.11	30dBm
9	2452	19.19	19.08	19.12	19.03	19.11	19.14	19.04	19.09	30dBm

Note: Measure Level =Reading value + cable loss

Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE 802.11n (ANT B(20MHz))

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	21.04	1Watt= 30 dBm	Pass
6	2437	22.34	1Watt= 30 dBm	Pass
11	2462	20.98	1Watt= 30 dBm	Pass

The worst emission of data rate is 13Mbps

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
1	2412	21.04	20.98	20.87	20.79	21.01	20.84	20.74	20.79	≦30dBm
6	2437	22.34	22.2	22.21	22.18	22.21	22.31	22.18	22.27	≦30dBm
11	2462	20.98	20.23	20.56	20.67	20.62	20.72	20.77	20.56	≦30dBm

Note: Measure Level =Reading value + cable loss

Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE 802.11n (ANT A(40MHz))				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	19.39	1Watt= 30 dBm	Pass
6	2437	22.16	1Watt= 30 dBm	Pass
9	2452	19.19	1Watt= 30 dBm	Pass

The worst emission of data rate is 27Mbps

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
3	2422	19.39	19.22	19.31	19.28	19.33	19.21	19.28	19.33	≦30dBm
6	2437	22.16	22.12	22.08	22.07	22.11	22.01	22.02	22.05	≦30dBm
9	2452	19.19	19.12	19.09	19.04	19.07	19.12	19.13	19.11	≦30dBm

Note: Measure Level =Reading value + cable loss

Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE 802.11n (ANT A+B(20MHz))

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	23.22	1Watt= 30 dBm	Pass
6	2437	25.47	1Watt= 30 dBm	Pass
11	2462	23.21	1Watt= 30 dBm	Pass

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
1	2412	23.22	23.07	23.01	22.91	23.08	23.03	22.94	23.00	≦30dBm
6	2437	25.47	25.35	25.33	25.38	25.33	25.42	25.34	25.34	≦30dBm
11	2462	23.21	22.77	22.95	22.99	22.99	23.00	23.08	22.92	≦30dBm

Note: Measure Level =Reading value + cable loss

Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE802.11n (ANT A+B(40MHz))

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	22.50	1Watt= 30 dBm	Pass
6	2437	25.24	1Watt= 30 dBm	Pass
9	2452	22.20	1Watt= 30 dBm	Pass

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
3	2422	22.50	22.38	22.41	22.37	22.36	22.38	22.39	22.39	≦30dBm
6	2437	25.24	25.18	25.15	25.08	25.14	25.03	25.05	25.09	≦30dBm
9	2452	22.20	22.11	22.12	22.05	22.10	22.14	22.10	22.11	≦30dBm

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

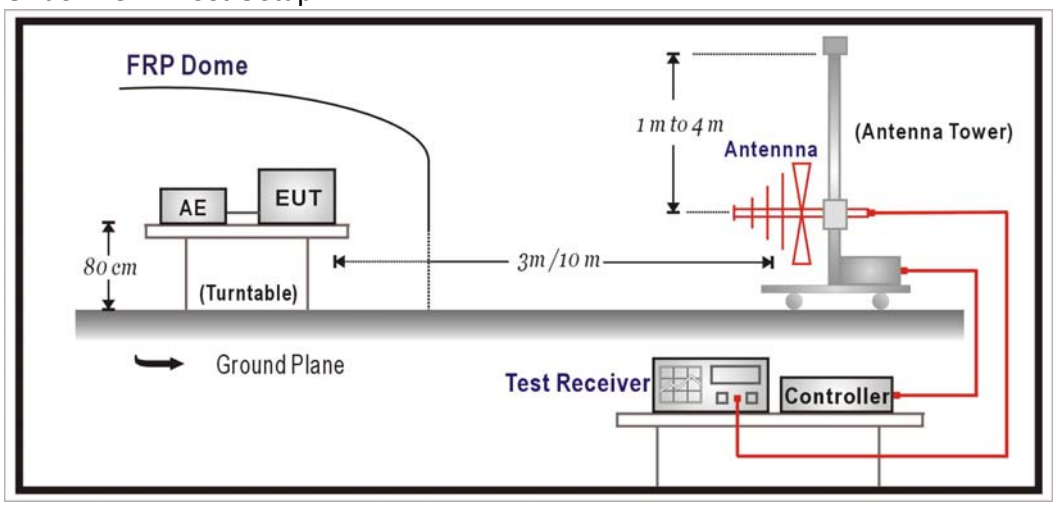
Radiated Emission / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895	2011/08/14
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120D	743	2012/02/24
Pre-Amplifier	MITEQ	AMF-4D-005180-24-10P	888003	2011/12/16
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2012/03/10
PSA Series Spectrum analyzer	Agilent	E4440A	MY46187335	2012/01/06
Coaxial Cable	Huber+Suhner AG	Sucoflex 102	25623/2	2012/03/21

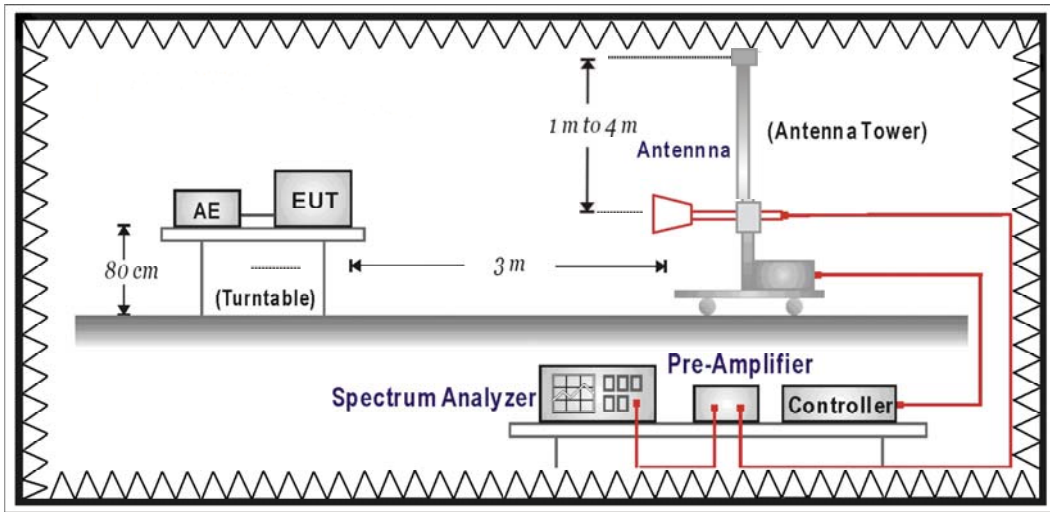
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

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: 2009 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.
The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated measurement.
On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

4.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2010

4.6. Uncertainty

The measurement uncertainty

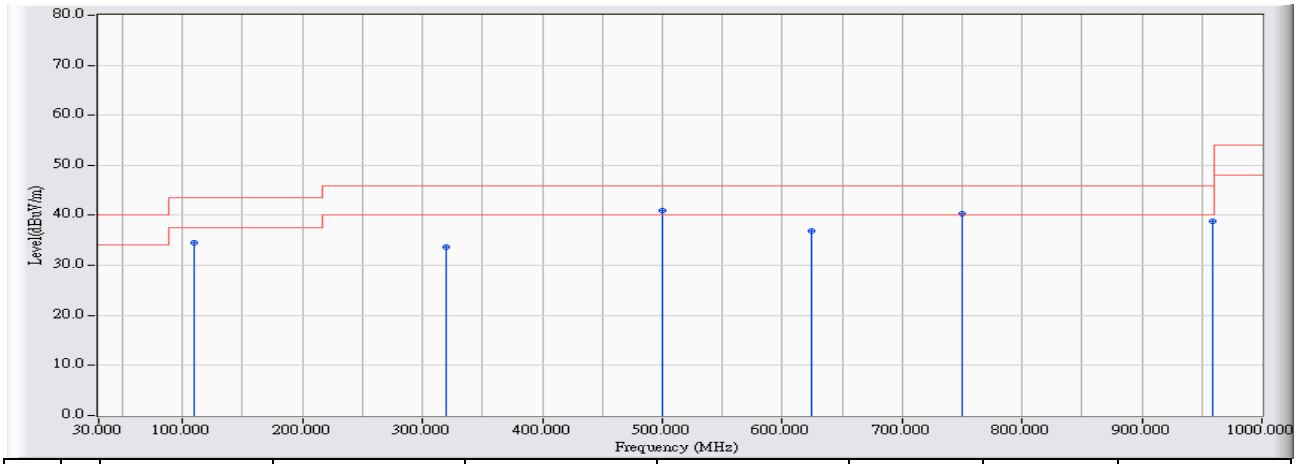
30MHz～1GHz as ±3.43dB

1GHz～26.5Ghz as ±3.65dB

4.7. Test Result

30MHz-1GHz Spurious

Site : CB1	Time : 2011/04/13 - 19:47
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11b,Mode 1: Transmit (CAP012121)

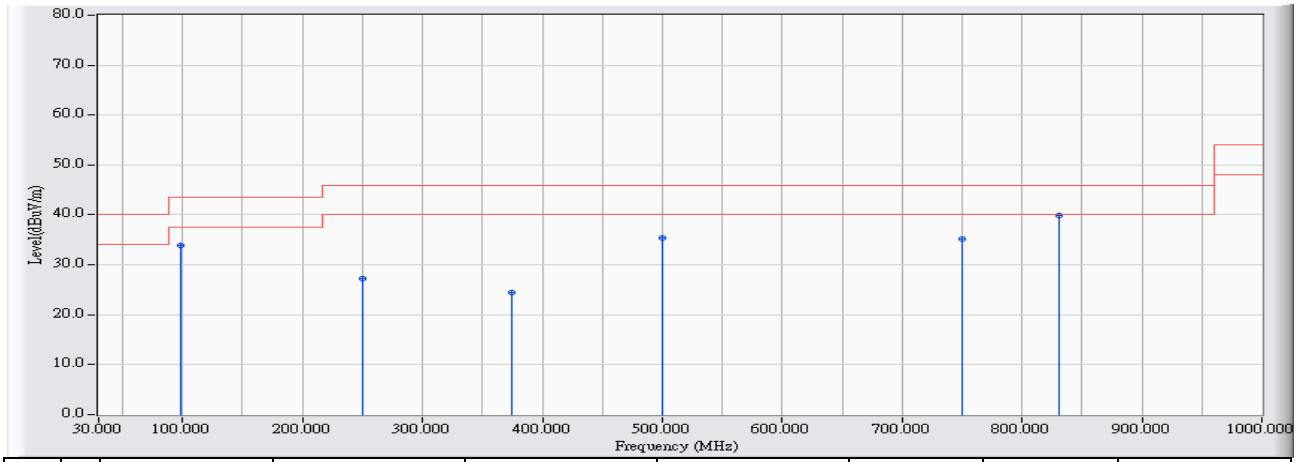


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		109.217	-13.124	47.644	34.520	-8.980	43.500	QUASIPEAK
2		319.383	-10.127	43.697	33.570	-12.430	46.000	QUASIPEAK
3	*	500.450	-6.072	46.941	40.870	-5.130	46.000	QUASIPEAK
4		624.933	-4.882	41.856	36.974	-9.026	46.000	QUASIPEAK
5		749.417	-3.947	44.322	40.376	-5.624	46.000	QUASIPEAK
6		959.583	-2.367	41.164	38.797	-7.203	46.000	QUASIPEAK

Note:

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

Site : CB1	Time : 2011/04/13 - 19:48
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11b,Mode 1: Transmit (CAP012121)

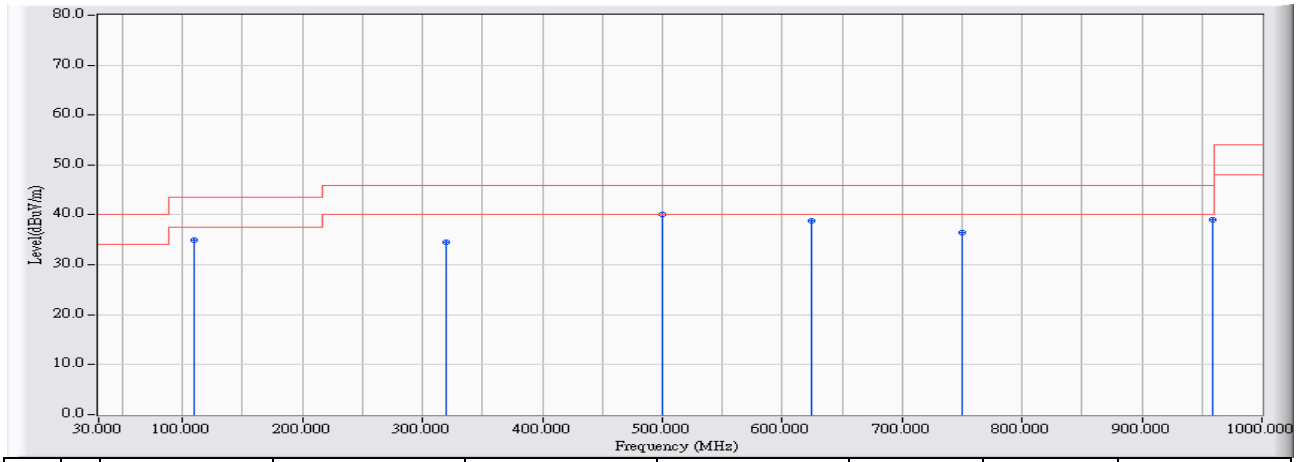


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		97.900	-14.374	48.230	33.856	-9.644	43.500	QUASIPEAK
2		249.867	-11.483	38.768	27.285	-18.715	46.000	QUASIPEAK
3		374.350	-8.586	33.005	24.420	-21.580	46.000	QUASIPEAK
4		500.450	-6.072	41.379	35.308	-10.692	46.000	QUASIPEAK
5		749.417	-3.947	39.175	35.229	-10.771	46.000	QUASIPEAK
6	*	830.250	-3.213	43.004	39.791	-6.209	46.000	QUASIPEAK

Note:

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

Site : CB1	Time : 2011/04/13 - 19:48
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11g,Mode 1: Transmit (CAP012121)

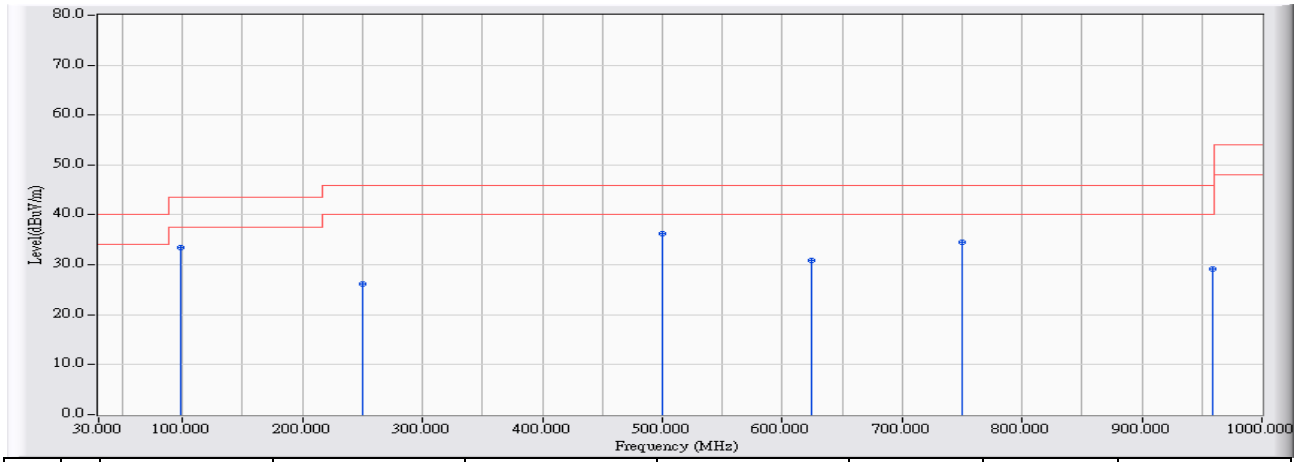


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		109.217	-13.124	48.017	34.893	-8.607	43.500	QUASIPEAK
2		319.383	-10.127	44.765	34.638	-11.362	46.000	QUASIPEAK
3	*	500.450	-6.072	46.146	40.075	-5.925	46.000	QUASIPEAK
4		624.933	-4.882	43.750	38.868	-7.132	46.000	QUASIPEAK
5		749.417	-3.947	40.320	36.374	-9.626	46.000	QUASIPEAK
6		959.583	-2.367	41.332	38.965	-7.035	46.000	QUASIPEAK

Note:

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

Site : CB1	Time : 2011/04/13 - 19:49
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11g,Mode 1: Transmit (CAP012121)

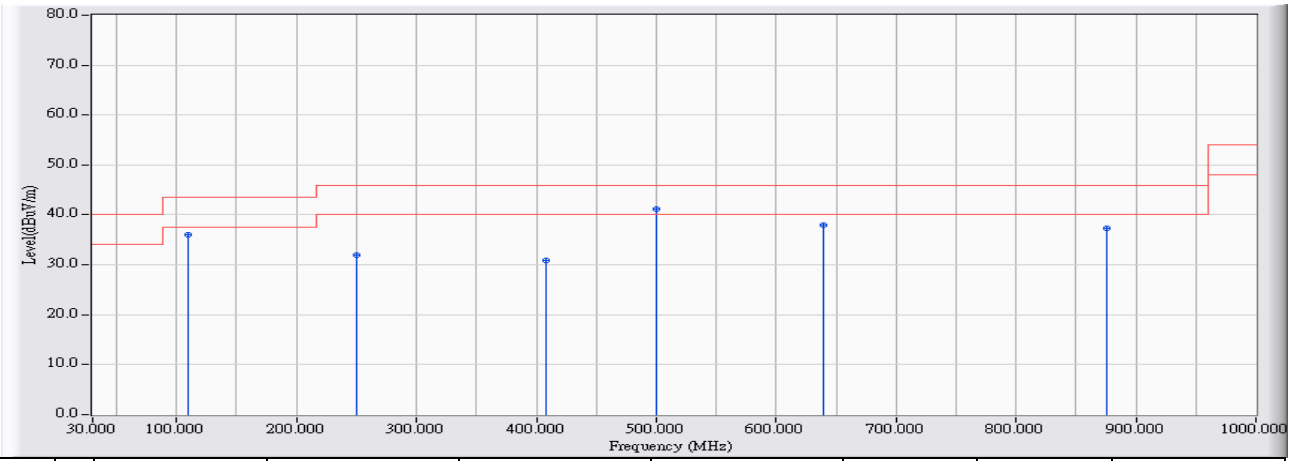


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		97.900	-14.374	47.878	33.504	-9.996	43.500	QUASIPEAK
2		249.867	-11.483	37.599	26.116	-19.884	46.000	QUASIPEAK
3	*	500.450	-6.072	42.331	36.260	-9.740	46.000	QUASIPEAK
4		624.933	-4.882	35.687	30.805	-15.195	46.000	QUASIPEAK
5		749.417	-3.947	38.503	34.557	-11.443	46.000	QUASIPEAK
6		959.583	-2.367	31.563	29.196	-16.804	46.000	QUASIPEAK

Note:

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

Site : CB1	Time : 2011/04/13 - 19:49
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11n(20M),Mode 1: Transmit (CAP012121)

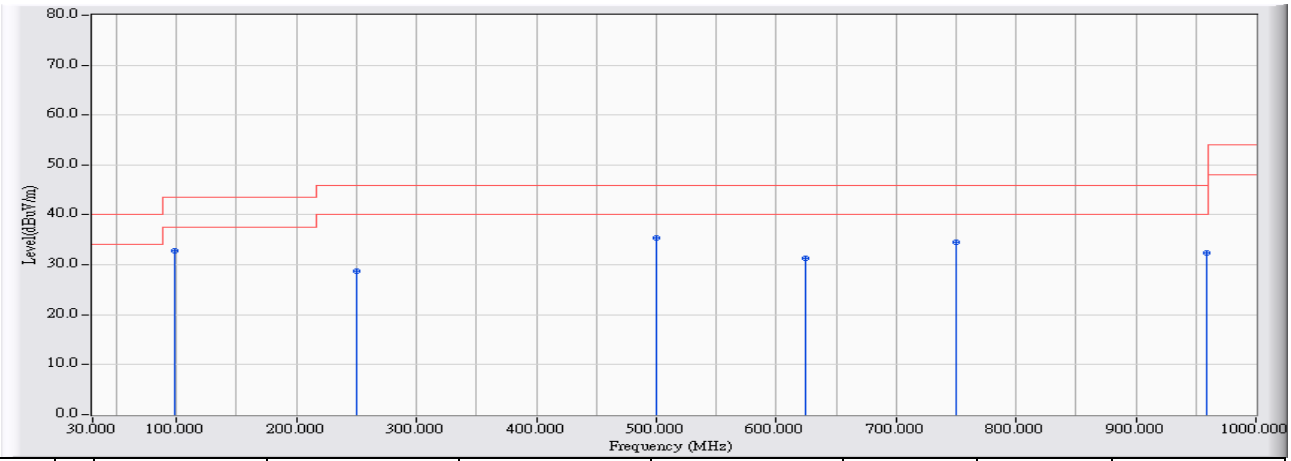


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		109.217	-13.124	49.201	36.077	-7.423	43.500	QUASIPEAK
2		249.867	-11.483	43.396	31.913	-14.087	46.000	QUASIPEAK
3		408.300	-7.714	38.702	30.988	-15.012	46.000	QUASIPEAK
4	*	500.450	-6.072	47.307	41.236	-4.764	46.000	QUASIPEAK
5		639.483	-4.795	42.745	37.950	-8.050	46.000	QUASIPEAK
6		875.517	-3.015	40.273	37.258	-8.742	46.000	QUASIPEAK

Note:

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

Site : CB1	Time : 2011/04/13 - 19:49
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11n(20M),Mode 1: Transmit (CAP012121)

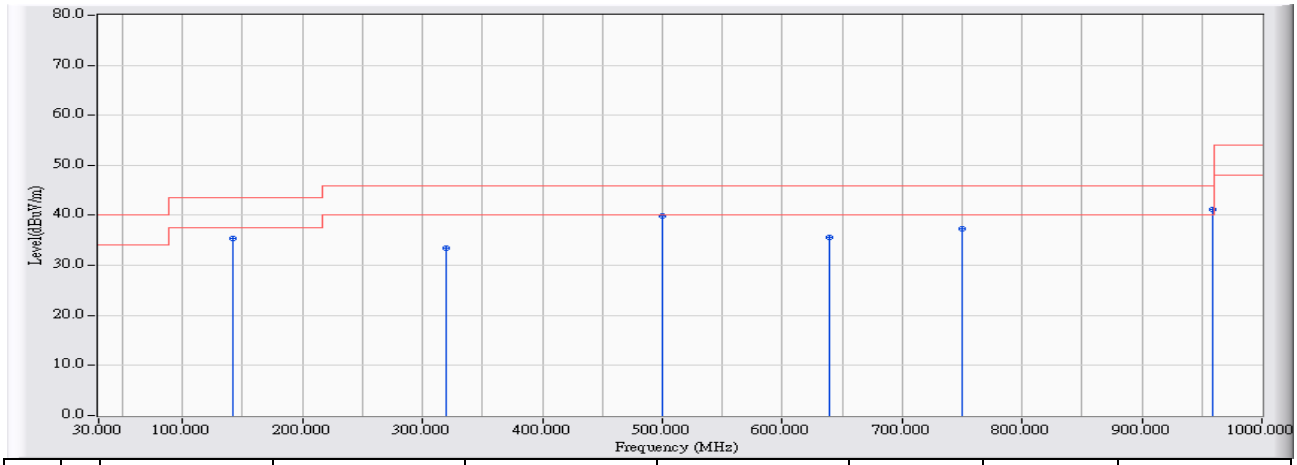


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	97.900	-14.374	47.236	32.862	-10.638	43.500	QUASIPEAK
2		249.867	-11.483	40.148	28.665	-17.335	46.000	QUASIPEAK
3		500.450	-6.072	41.396	35.325	-10.675	46.000	QUASIPEAK
4		624.933	-4.882	36.102	31.220	-14.780	46.000	QUASIPEAK
5		749.417	-3.947	38.372	34.426	-11.574	46.000	QUASIPEAK
6		959.583	-2.367	34.795	32.428	-13.572	46.000	QUASIPEAK

Note:

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

Site : CB1	Time : 2011/04/13 - 19:50
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11n(40M),Mode 1: Transmit (CAP012121)

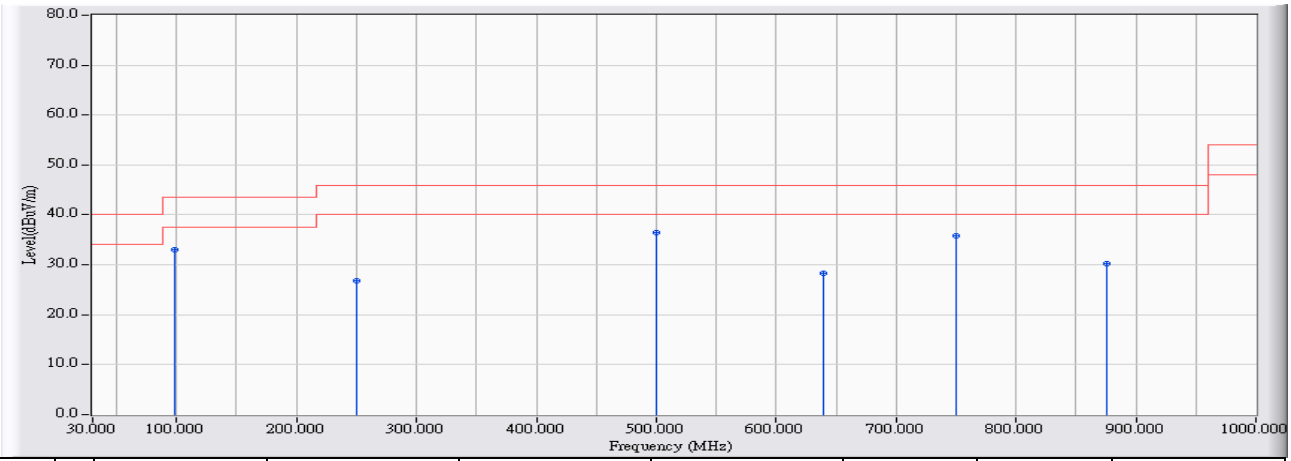


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		141.550	-13.423	48.758	35.334	-8.166	43.500	QUASIPEAK
2		319.383	-10.127	43.503	33.376	-12.624	46.000	QUASIPEAK
3		500.450	-6.072	46.018	39.947	-6.053	46.000	QUASIPEAK
4		639.483	-4.795	40.295	35.500	-10.500	46.000	QUASIPEAK
5		749.417	-3.947	41.212	37.266	-8.734	46.000	QUASIPEAK
6	*	959.583	-2.367	43.535	41.168	-4.832	46.000	QUASIPEAK

Note:

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

Site : CB1	Time : 2011/04/13 - 19:50
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11n(40M),Mode 1: Transmit (CAP012121)

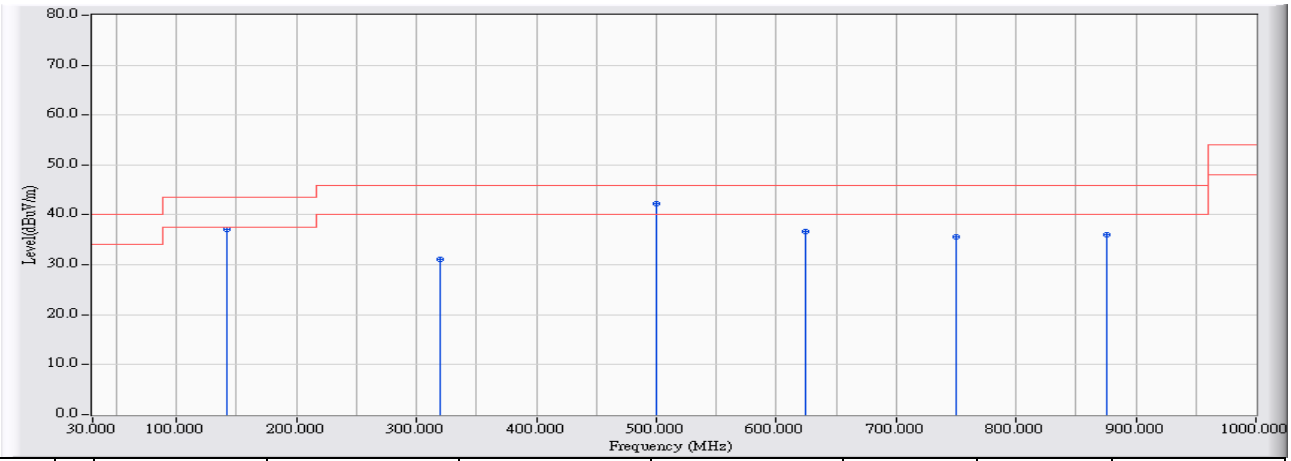


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		97.900	-14.374	47.490	33.116	-10.384	43.500	QUASIPEAK
2		249.867	-11.483	38.279	26.796	-19.204	46.000	QUASIPEAK
3	*	500.450	-6.072	42.493	36.422	-9.578	46.000	QUASIPEAK
4		639.483	-4.795	33.054	28.259	-17.741	46.000	QUASIPEAK
5		749.417	-3.947	39.774	35.828	-10.172	46.000	QUASIPEAK
6		875.517	-3.015	33.290	30.275	-15.725	46.000	QUASIPEAK

Note:

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

Site : CB1	Time : 2011/04/13 - 19:51
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11b,Mode 2: Transmit (MU12-Y120100-A1)

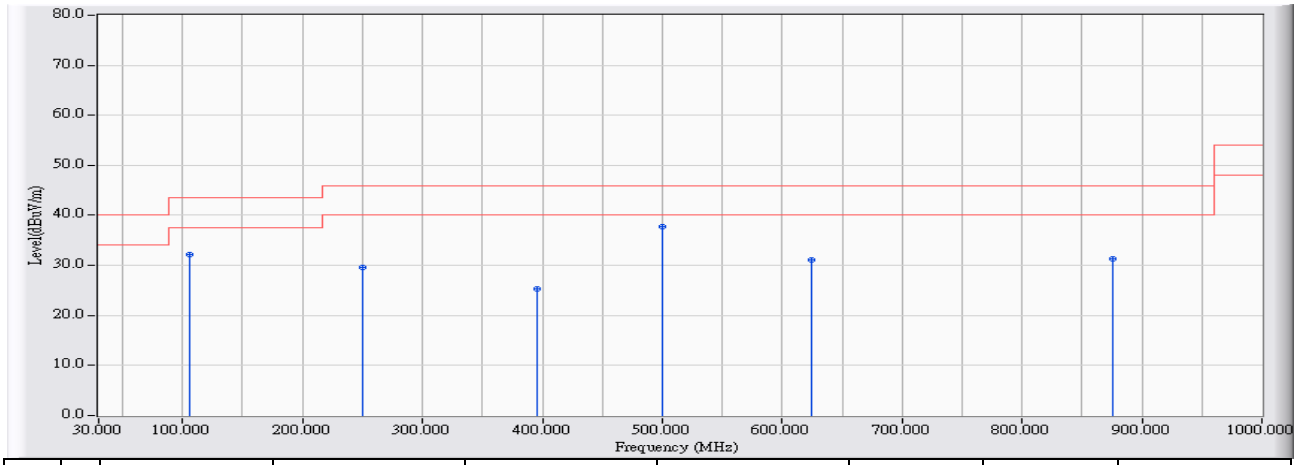


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		141.550	-13.423	50.635	37.211	-6.289	43.500	QUASIPEAK
2		319.383	-10.127	41.292	31.165	-14.835	46.000	QUASIPEAK
3	*	500.450	-6.072	48.305	42.234	-3.766	46.000	QUASIPEAK
4		624.933	-4.882	41.556	36.674	-9.326	46.000	QUASIPEAK
5		749.417	-3.947	39.489	35.543	-10.457	46.000	QUASIPEAK
6		875.517	-3.015	39.098	36.083	-9.917	46.000	QUASIPEAK

Note:

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

Site : CB1	Time : 2011/04/13 - 19:51
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11b,Mode 2: Transmit (MU12-Y120100-A1)

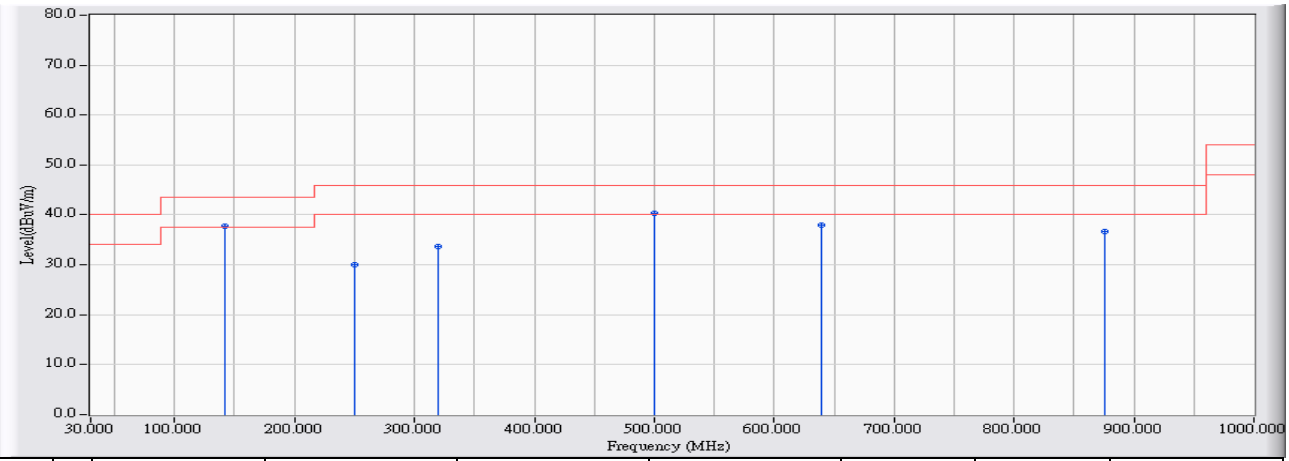


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		105.983	-13.404	45.582	32.178	-11.322	43.500	QUASIPEAK
2		249.867	-11.483	41.029	29.546	-16.454	46.000	QUASIPEAK
3		395.367	-8.000	33.276	25.277	-20.723	46.000	QUASIPEAK
4	*	500.450	-6.072	43.833	37.762	-8.238	46.000	QUASIPEAK
5		624.933	-4.882	35.882	31.000	-15.000	46.000	QUASIPEAK
6		875.517	-3.015	34.336	31.321	-14.679	46.000	QUASIPEAK

Note:

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

Site : CB1	Time : 2011/04/13 - 19:52
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11g,Mode 2: Transmit (MU12-Y120100-A1)

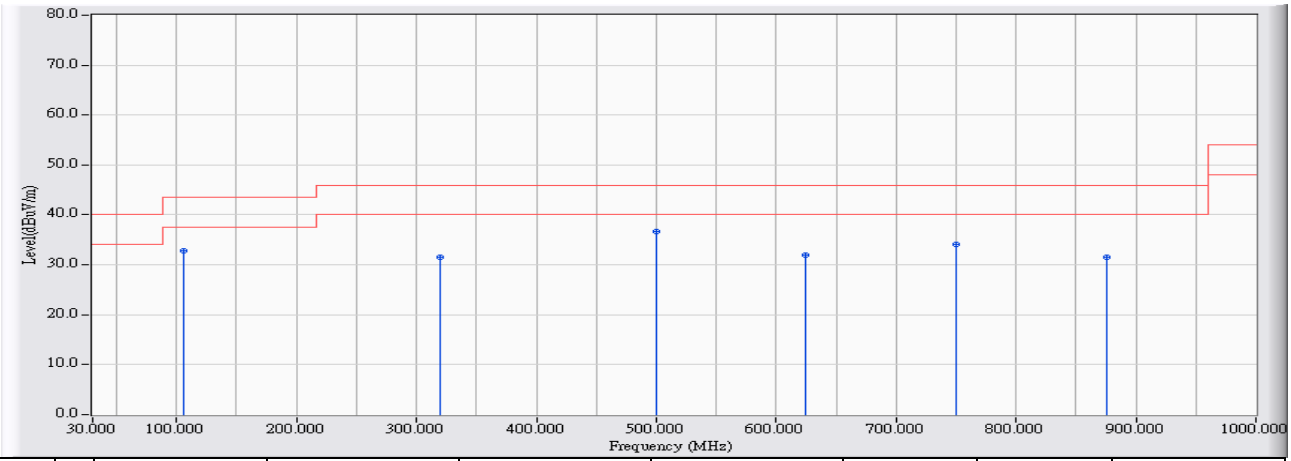


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	141.550	-13.423	51.235	37.811	-5.689	43.500	QUASIPEAK
2		249.867	-11.483	41.567	30.084	-15.916	46.000	QUASIPEAK
3		319.383	-10.127	43.711	33.584	-12.416	46.000	QUASIPEAK
4		500.450	-6.072	46.340	40.269	-5.731	46.000	QUASIPEAK
5		639.483	-4.795	42.803	38.008	-7.992	46.000	QUASIPEAK
6		875.517	-3.015	39.618	36.603	-9.397	46.000	QUASIPEAK

Note:

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

Site : CB1	Time : 2011/04/13 - 19:52
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11g,Mode 2: Transmit (MU12-Y120100-A1)

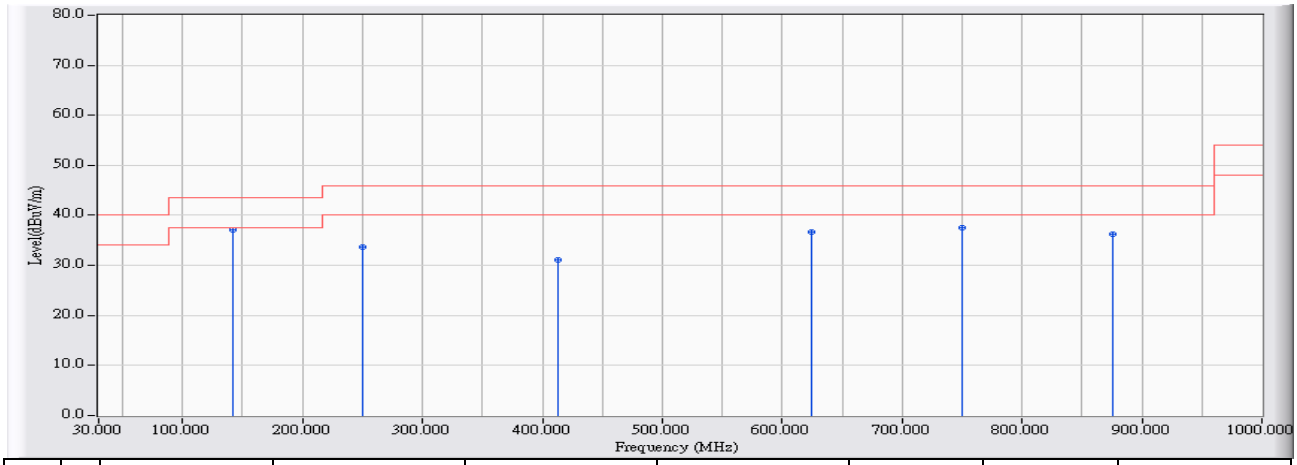


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		105.983	-13.404	46.286	32.882	-10.618	43.500	QUASIPEAK
2		319.383	-10.127	41.751	31.624	-14.376	46.000	QUASIPEAK
3	*	500.450	-6.072	42.786	36.715	-9.285	46.000	QUASIPEAK
4		624.933	-4.882	36.761	31.879	-14.121	46.000	QUASIPEAK
5		749.417	-3.947	38.129	34.183	-11.817	46.000	QUASIPEAK
6		875.517	-3.015	34.636	31.621	-14.379	46.000	QUASIPEAK

Note:

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

Site : CB1	Time : 2011/04/13 - 19:52
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11n(20M),Mode 2: Transmit (MU12-Y120100-A1)

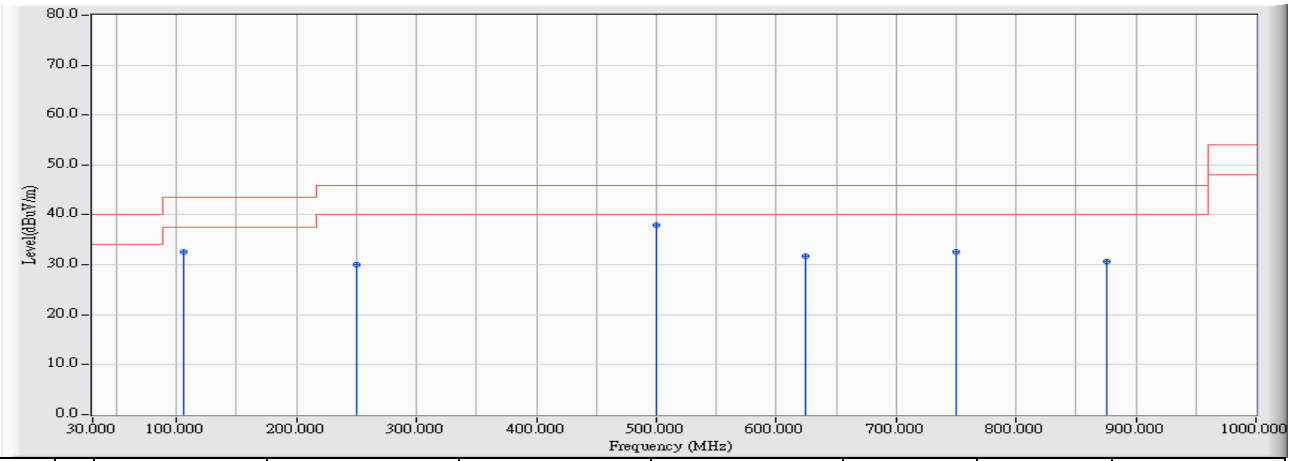


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	141.550	-13.423	50.447	37.023	-6.477	43.500	QUASIPEAK
2		249.867	-11.483	45.088	33.605	-12.395	46.000	QUASIPEAK
3		413.150	-7.624	38.787	31.163	-14.837	46.000	QUASIPEAK
4		624.933	-4.882	41.633	36.751	-9.249	46.000	QUASIPEAK
5		749.417	-3.947	41.377	37.431	-8.569	46.000	QUASIPEAK
6		875.517	-3.015	39.162	36.147	-9.853	46.000	QUASIPEAK

Note:

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

Site : CB1	Time : 2011/04/13 - 19:53
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11n(20M),Mode 2: Transmit (MU12-Y120100-A1)

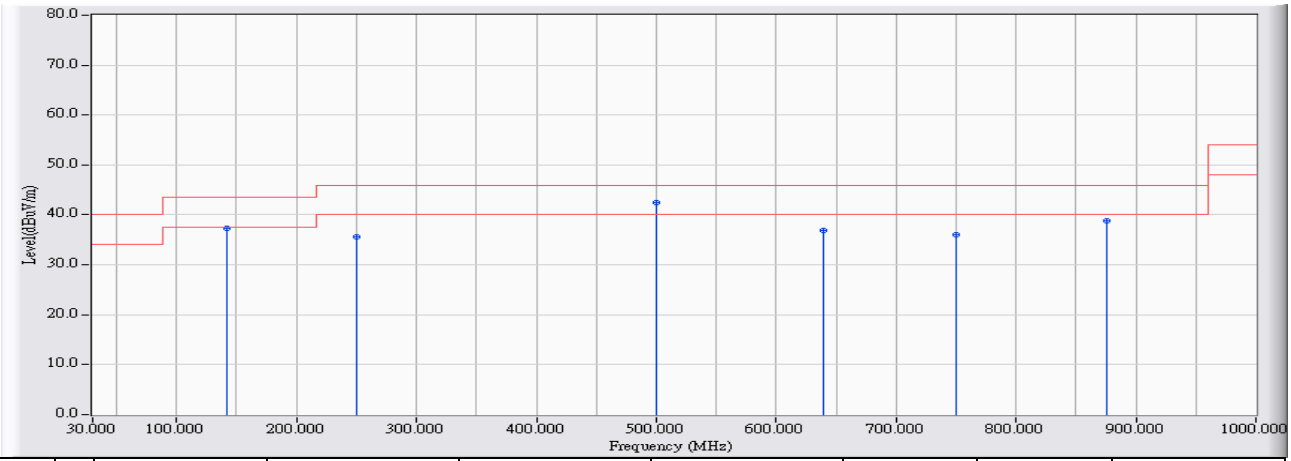


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		105.983	-13.404	45.904	32.500	-11.000	43.500	QUASIPEAK
2		249.867	-11.483	41.450	29.967	-16.033	46.000	QUASIPEAK
3	*	500.450	-6.072	44.056	37.985	-8.015	46.000	QUASIPEAK
4		624.933	-4.882	36.658	31.776	-14.224	46.000	QUASIPEAK
5		749.417	-3.947	36.539	32.593	-13.407	46.000	QUASIPEAK
6		875.517	-3.015	33.711	30.696	-15.304	46.000	QUASIPEAK

Note:

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

Site : CB1	Time : 2011/04/13 - 19:53
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11n(40M),Mode 2: Transmit (MU12-Y120100-A1)

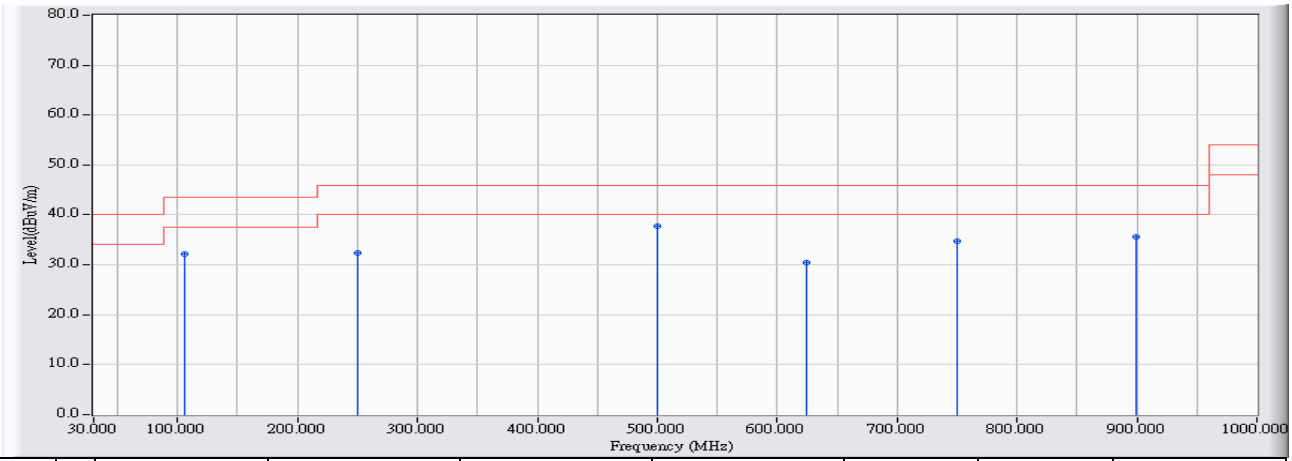


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		141.550	-13.423	50.655	37.231	-6.269	43.500	QUASIPEAK
2		249.867	-11.483	47.006	35.523	-10.477	46.000	QUASIPEAK
3	*	500.450	-6.072	48.451	42.380	-3.620	46.000	QUASIPEAK
4		639.483	-4.795	41.761	36.966	-9.034	46.000	QUASIPEAK
5		749.417	-3.947	39.954	36.008	-9.992	46.000	QUASIPEAK
6		875.517	-3.015	41.767	38.752	-7.248	46.000	QUASIPEAK

Note:

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

Site : CB1	Time : 2011/04/13 - 19:57
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11n(40M),Mode 2: Transmit (MU12-Y120100-A1)



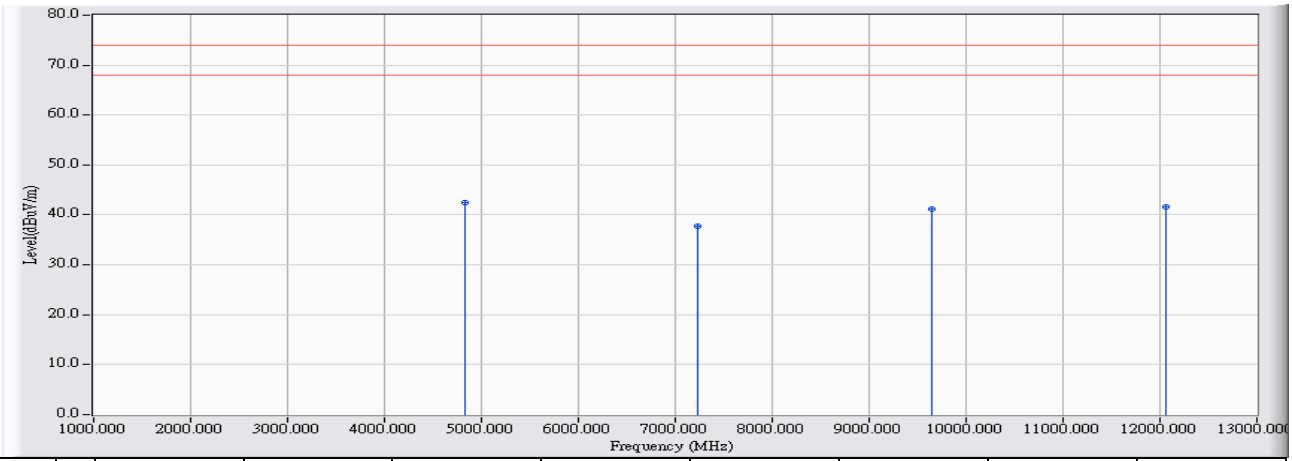
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		105.983	-13.404	45.584	32.180	-11.320	43.500	QUASIPEAK
2		249.867	-11.483	43.900	32.417	-13.583	46.000	QUASIPEAK
3	*	500.450	-6.072	43.878	37.807	-8.193	46.000	QUASIPEAK
4		624.933	-4.882	35.340	30.458	-15.542	46.000	QUASIPEAK
5		749.417	-3.947	38.645	34.699	-11.301	46.000	QUASIPEAK
6		899.767	-2.911	38.444	35.533	-10.467	46.000	QUASIPEAK

Note:

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

Harmonic & Spurious:

Site : CB1	Time : 2011/04/12 - 16:43
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2412_802.11b

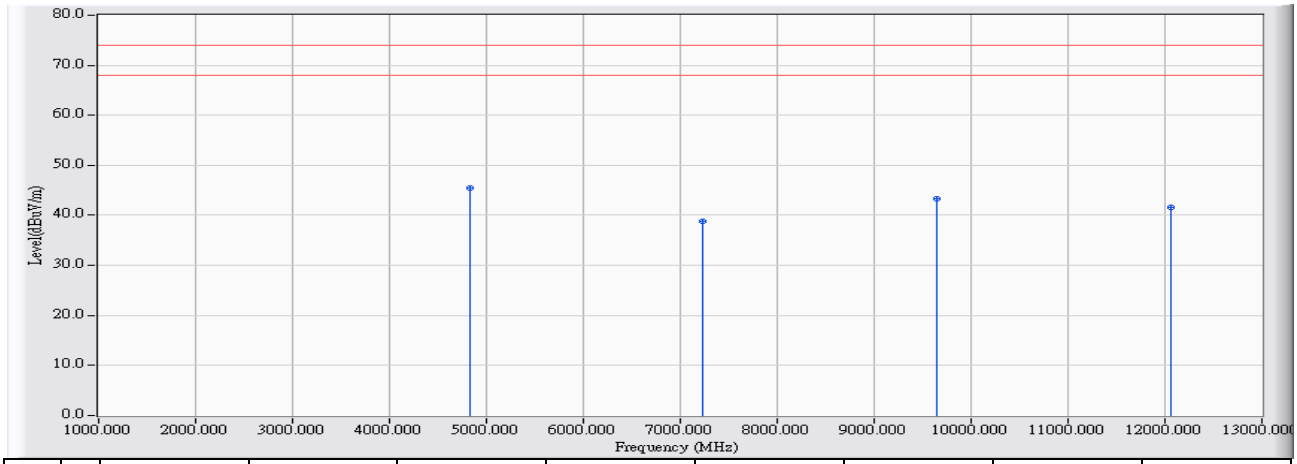


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4823.950	-5.420	47.930	42.509	-31.491	74.000	54.000	PEAK
2		7236.350	0.325	37.465	37.791	-36.209	74.000	54.000	PEAK
3		9648.100	2.462	38.633	41.095	-32.905	74.000	54.000	PEAK
4		12059.950	5.628	36.029	41.657	-32.343	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/04/12 - 16:49
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2412_802.11b

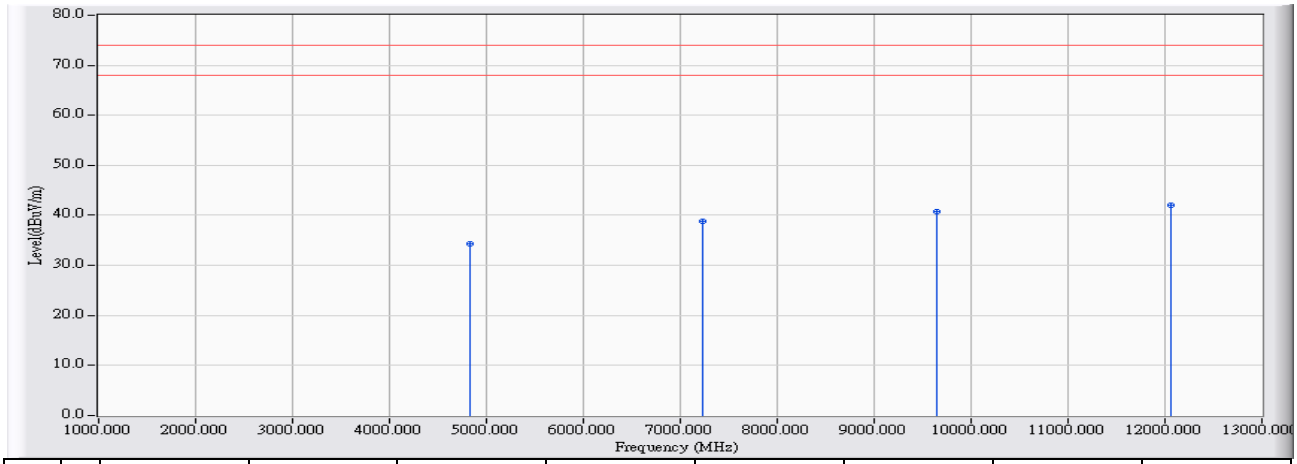


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4824.000	-5.420	50.812	45.391	-28.609	74.000	54.000	PEAK
2		7235.500	0.322	38.392	38.714	-35.286	74.000	54.000	PEAK
3		9647.950	2.462	40.836	43.298	-30.702	74.000	54.000	PEAK
4		12059.500	5.626	35.907	41.534	-32.466	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/04/12 - 17:12
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2412_802.11g

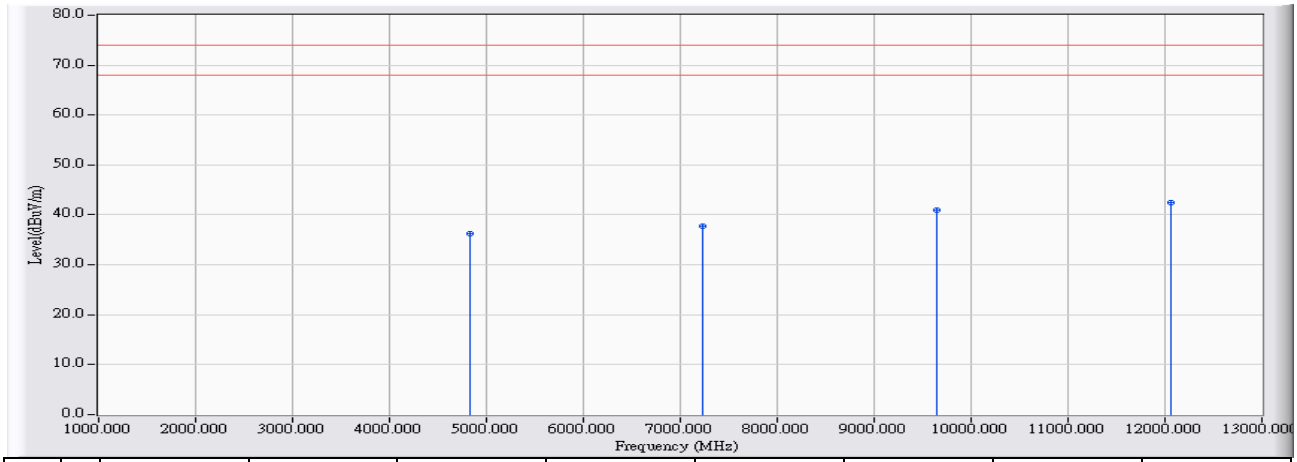


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4823.400	-5.423	39.781	34.359	-39.641	74.000	54.000	PEAK
2		7237.750	0.332	38.446	38.778	-35.222	74.000	54.000	PEAK
3		9648.350	2.462	38.324	40.786	-33.214	74.000	54.000	PEAK
4	*	12059.700	5.627	36.361	41.988	-32.012	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/04/12 - 17:17
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2412_802.11g

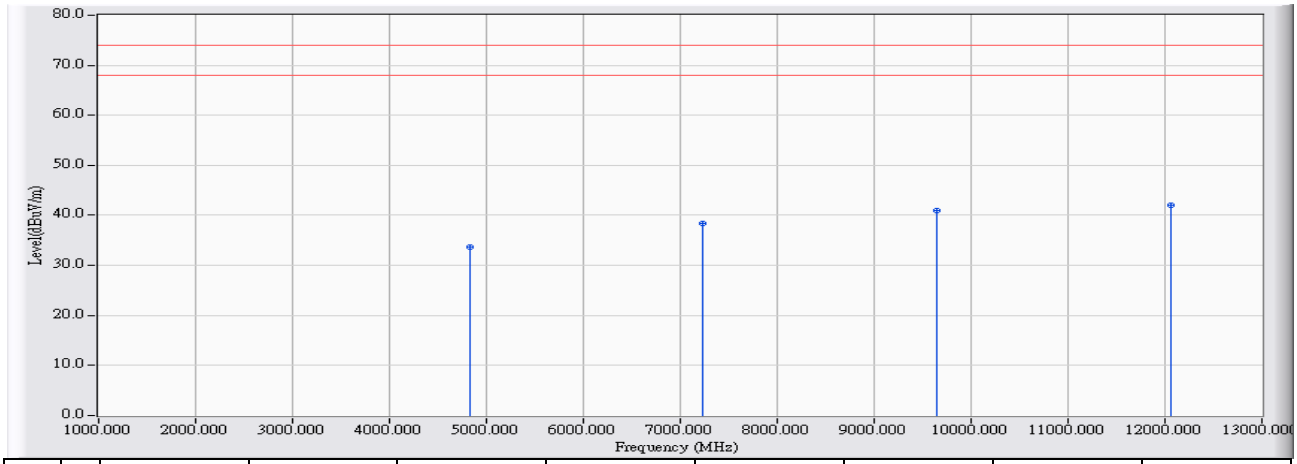


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4823.700	-5.421	41.705	36.284	-37.716	74.000	54.000	PEAK
2		7235.400	0.322	37.465	37.787	-36.213	74.000	54.000	PEAK
3		9648.000	2.462	38.474	40.936	-33.064	74.000	54.000	PEAK
4	*	12059.850	5.628	36.777	42.404	-31.596	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/04/12 - 17:34
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2412_802.11n(20M)

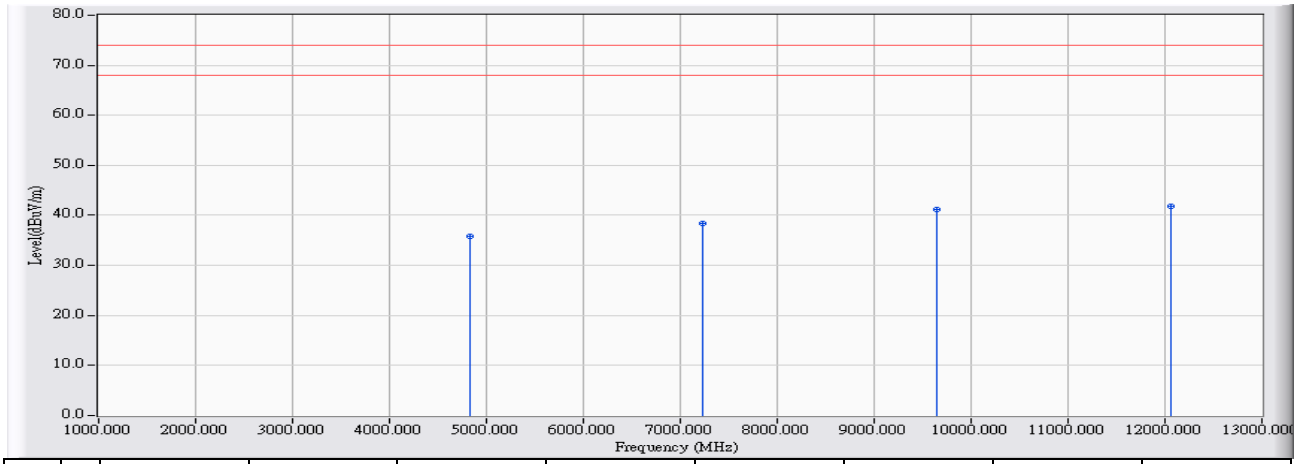


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4823.850	-5.420	39.040	33.619	-40.381	74.000	54.000	PEAK
2		7236.450	0.327	38.005	38.331	-35.669	74.000	54.000	PEAK
3		9648.200	2.462	38.440	40.902	-33.098	74.000	54.000	PEAK
4	*	12059.500	5.626	36.465	42.092	-31.908	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/04/12 - 17:40
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2412_802.11n(20M)

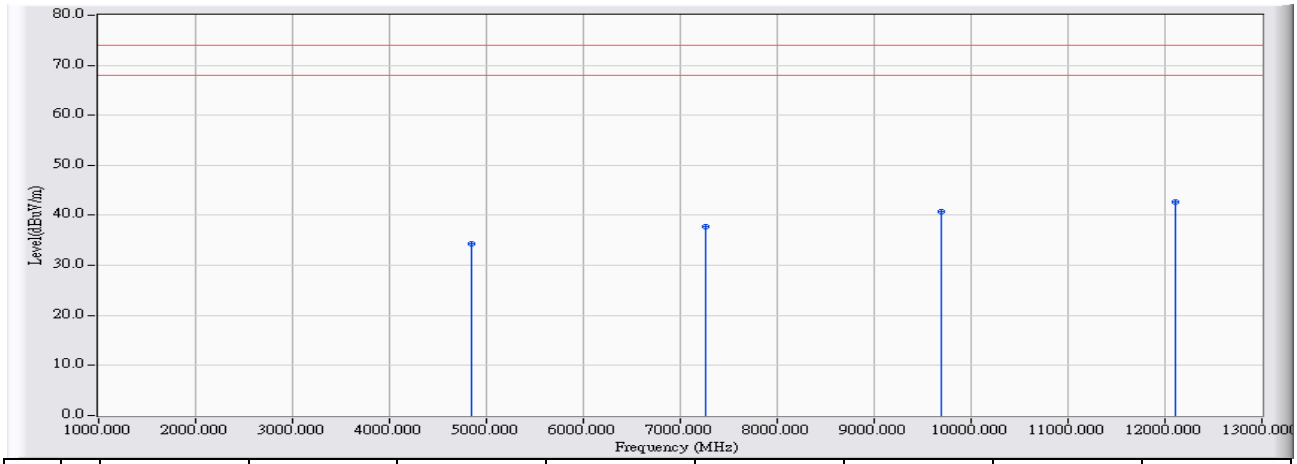


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4824.000	-5.420	41.217	35.796	-38.204	74.000	54.000	PEAK
2		7233.150	0.313	38.001	38.314	-35.686	74.000	54.000	PEAK
3		9647.500	2.461	38.660	41.122	-32.878	74.000	54.000	PEAK
4	*	12060.250	5.628	36.142	41.770	-32.230	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/04/12 - 17:57
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2422_802.11n(40M)

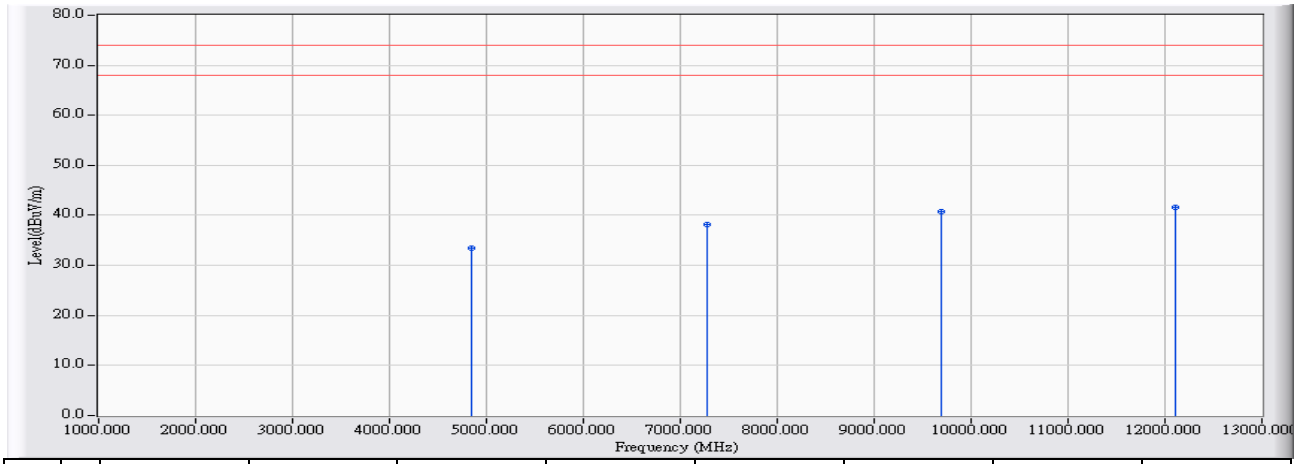


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4842.750	-5.373	39.731	34.358	-39.642	74.000	54.000	PEAK
2		7265.700	0.448	37.335	37.783	-36.217	74.000	54.000	PEAK
3		9688.600	2.489	38.247	40.737	-33.263	74.000	54.000	PEAK
4	*	12110.500	5.691	36.965	42.655	-31.345	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/04/12 - 18:20
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2422_802.11n(40M)

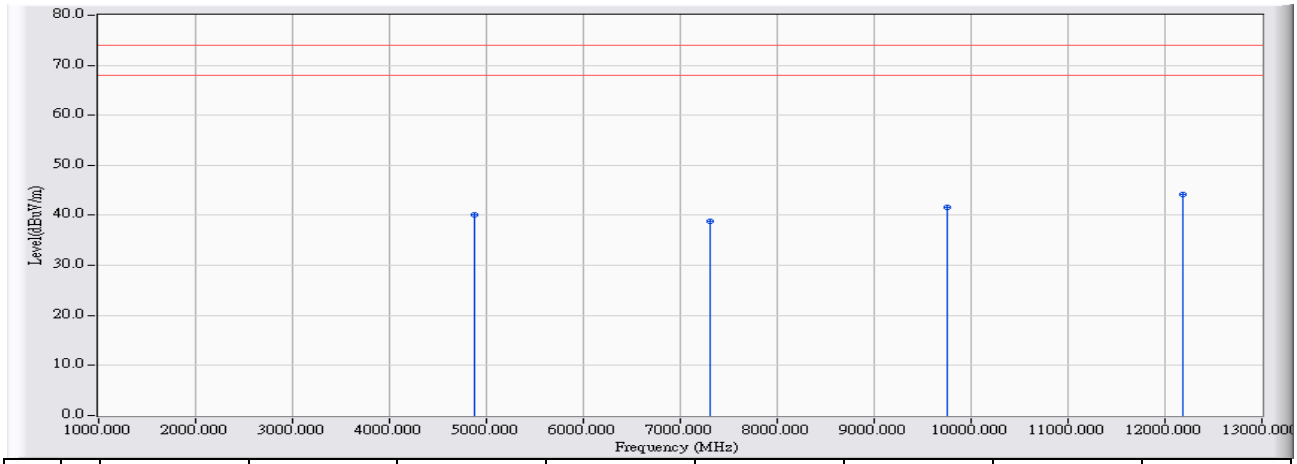


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4844.500	-5.368	38.831	33.463	-40.537	74.000	54.000	PEAK
2		7269.450	0.463	37.687	38.150	-35.850	74.000	54.000	PEAK
3		9686.200	2.488	38.278	40.766	-33.234	74.000	54.000	PEAK
4	*	12111.250	5.691	35.981	41.672	-32.328	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/04/12 - 16:55
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11b

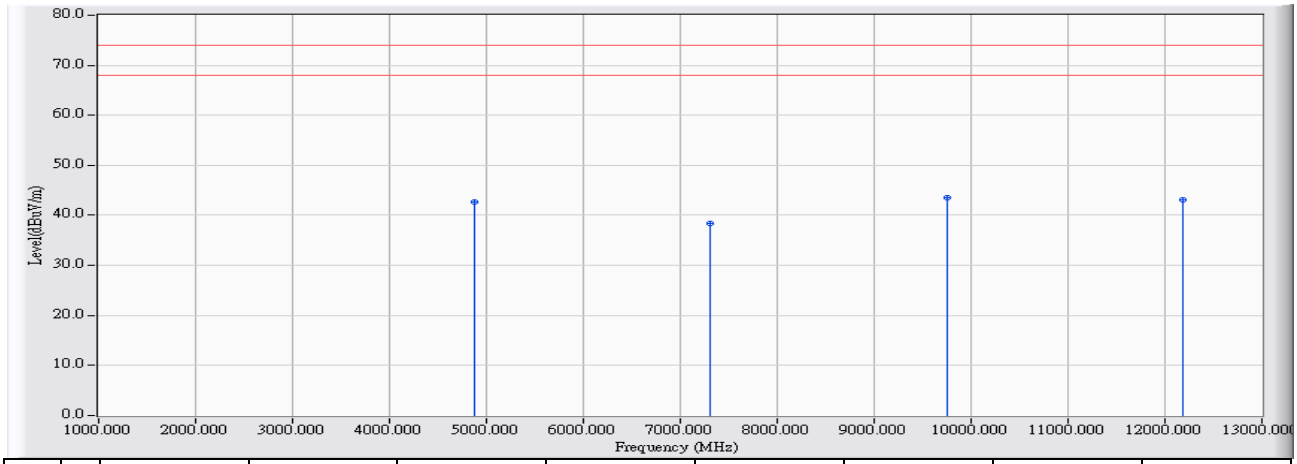


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4873.750	-5.293	45.497	40.204	-33.796	74.000	54.000	PEAK
2		7310.600	0.634	38.284	38.918	-35.082	74.000	54.000	PEAK
3		9747.950	2.531	39.028	41.559	-32.441	74.000	54.000	PEAK
4	*	12185.550	5.784	38.346	44.130	-29.870	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/04/12 - 16:57
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11b

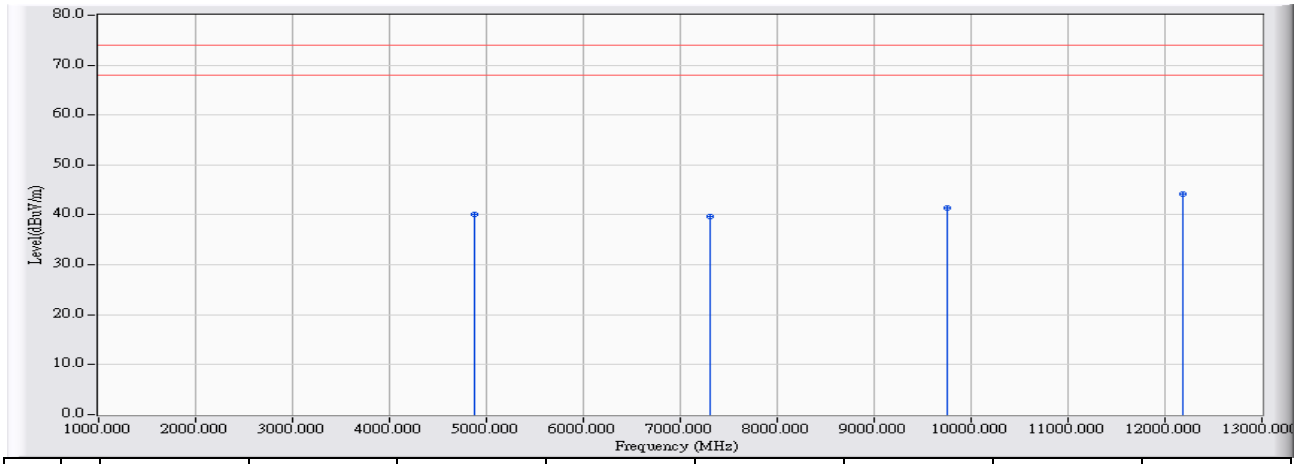


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4874.150	-5.293	48.041	42.749	-31.251	74.000	54.000	PEAK
2		7310.650	0.634	37.769	38.403	-35.597	74.000	54.000	PEAK
3	*	9748.000	2.531	41.018	43.549	-30.451	74.000	54.000	PEAK
4		12185.300	5.784	37.289	43.073	-30.927	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/04/12 - 15:34
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11g

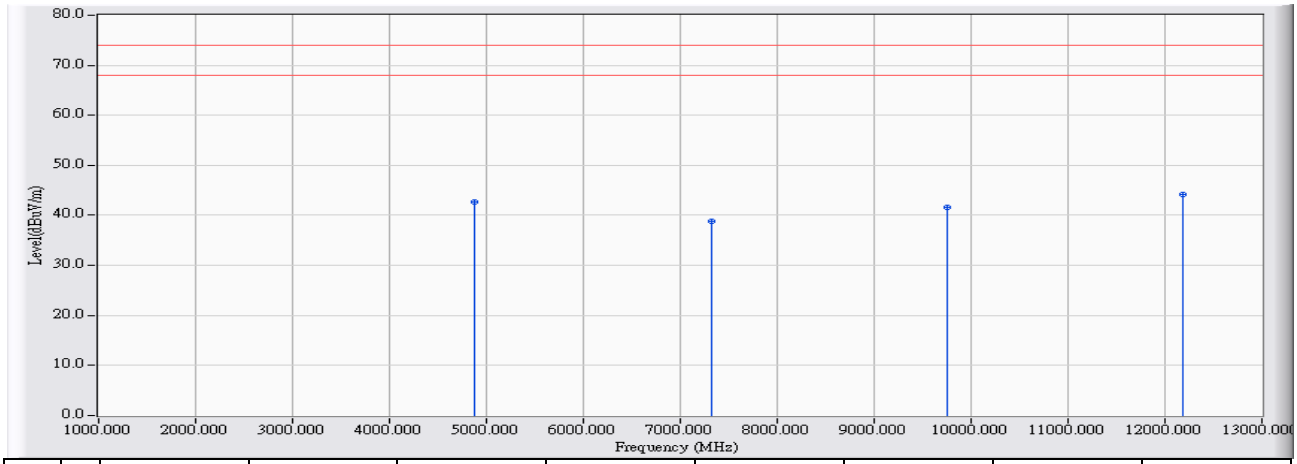


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4871.350	-5.300	45.494	40.194	-33.806	74.000	54.000	PEAK
2		7310.400	0.634	38.985	39.618	-34.382	74.000	54.000	PEAK
3		9747.600	2.530	38.841	41.372	-32.628	74.000	54.000	PEAK
4	*	12190.450	5.790	38.358	44.148	-29.852	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/04/12 - 15:37
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11g

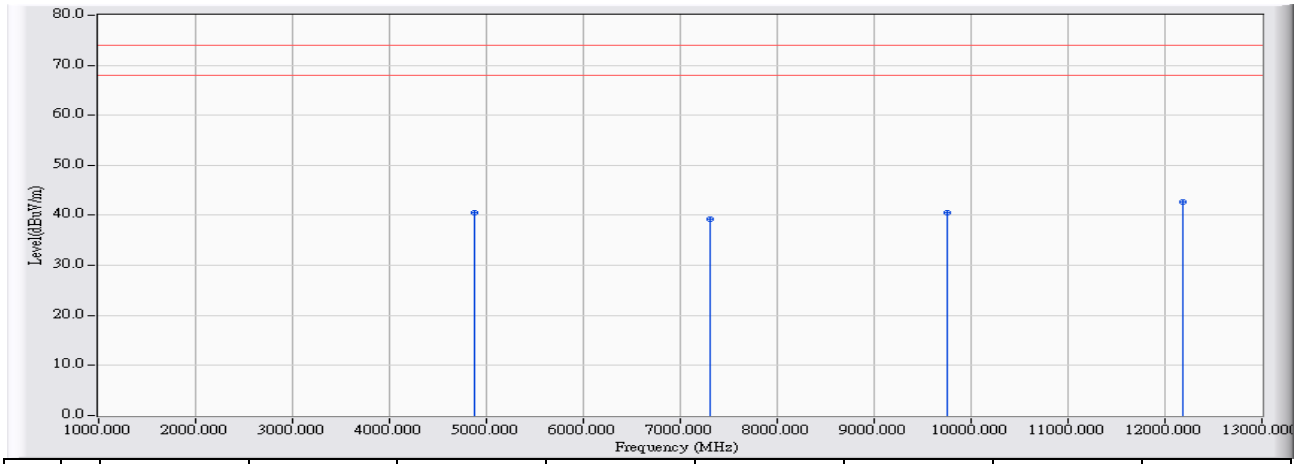


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4874.950	-5.290	47.917	42.627	-31.373	74.000	54.000	PEAK
2		7315.500	0.654	38.252	38.906	-35.094	74.000	54.000	PEAK
3		9748.200	2.531	39.135	41.666	-32.334	74.000	54.000	PEAK
4	*	12183.900	5.782	38.411	44.193	-29.807	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/04/12 - 16:10
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11n(20M)

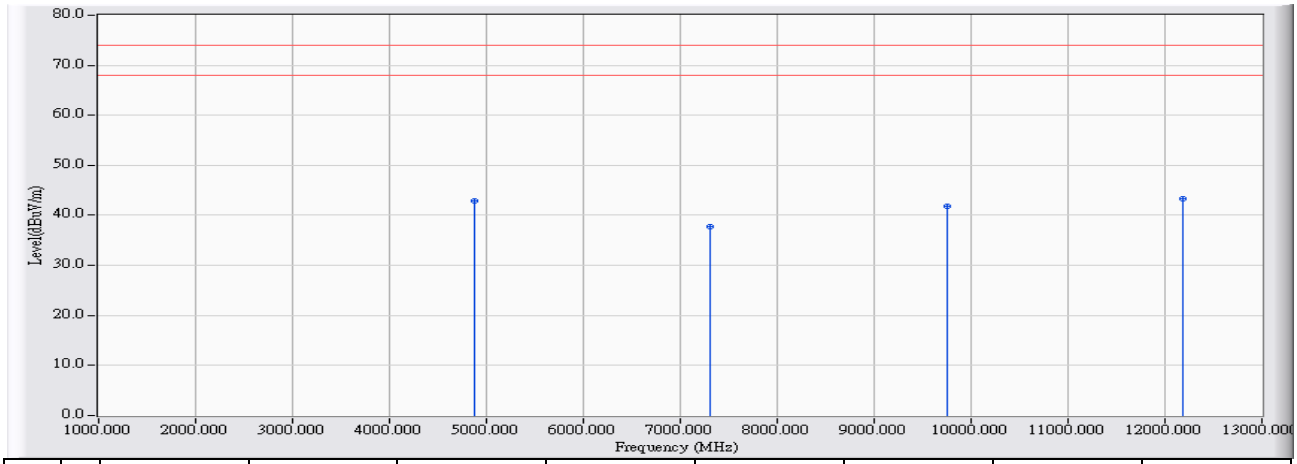


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4874.000	-5.293	45.915	40.622	-33.378	74.000	54.000	PEAK
2		7314.150	0.648	38.615	39.264	-34.736	74.000	54.000	PEAK
3		9747.950	2.531	38.047	40.578	-33.422	74.000	54.000	PEAK
4	*	12185.300	5.784	36.887	42.671	-31.329	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/04/12 - 16:14
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11n(20M)

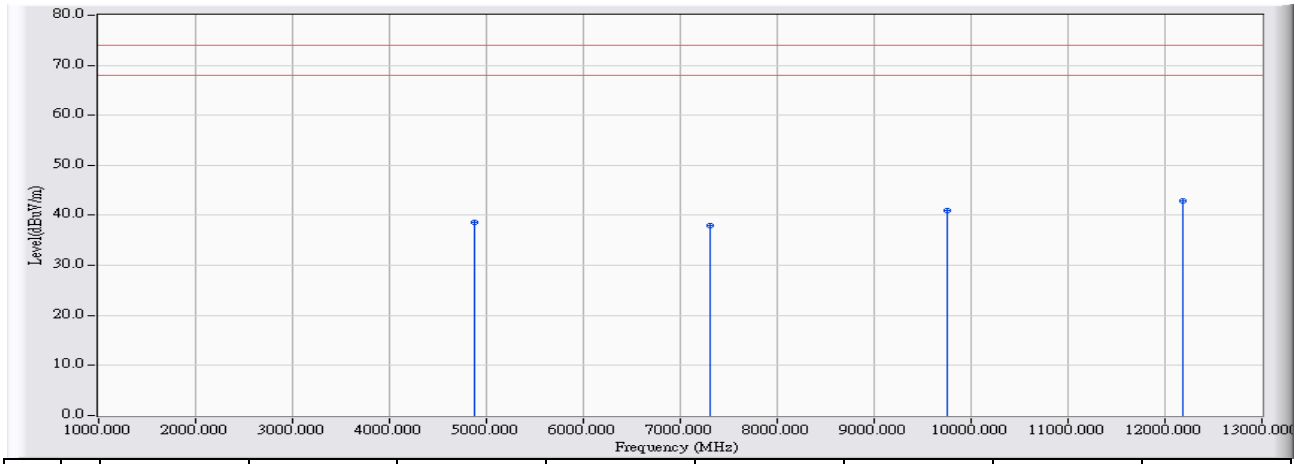


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4874.100	-5.293	48.216	42.923	-31.077	74.000	54.000	PEAK
2		7310.850	0.636	37.141	37.776	-36.224	74.000	54.000	PEAK
3		9746.900	2.531	39.324	41.854	-32.146	74.000	54.000	PEAK
4	*	12184.400	5.782	37.497	43.279	-30.721	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/04/12 - 16:29
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11n(40M)

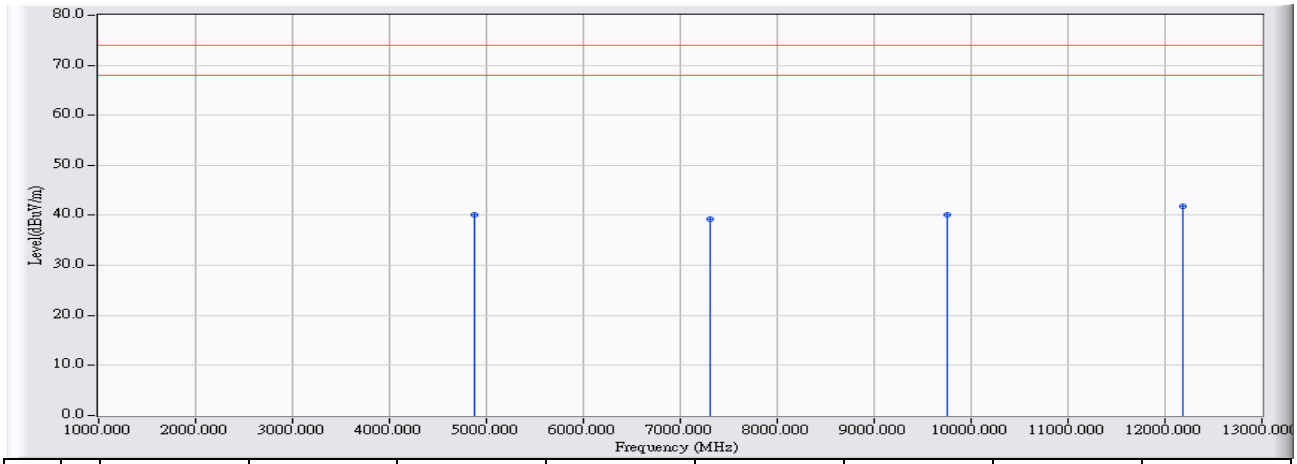


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4873.900	-5.293	43.954	38.661	-35.339	74.000	54.000	PEAK
2		7310.400	0.634	37.394	38.027	-35.973	74.000	54.000	PEAK
3		9746.500	2.531	38.433	40.963	-33.037	74.000	54.000	PEAK
4	*	12185.050	5.783	37.128	42.911	-31.089	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/04/12 - 16:32
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2437_802.11n(40M)

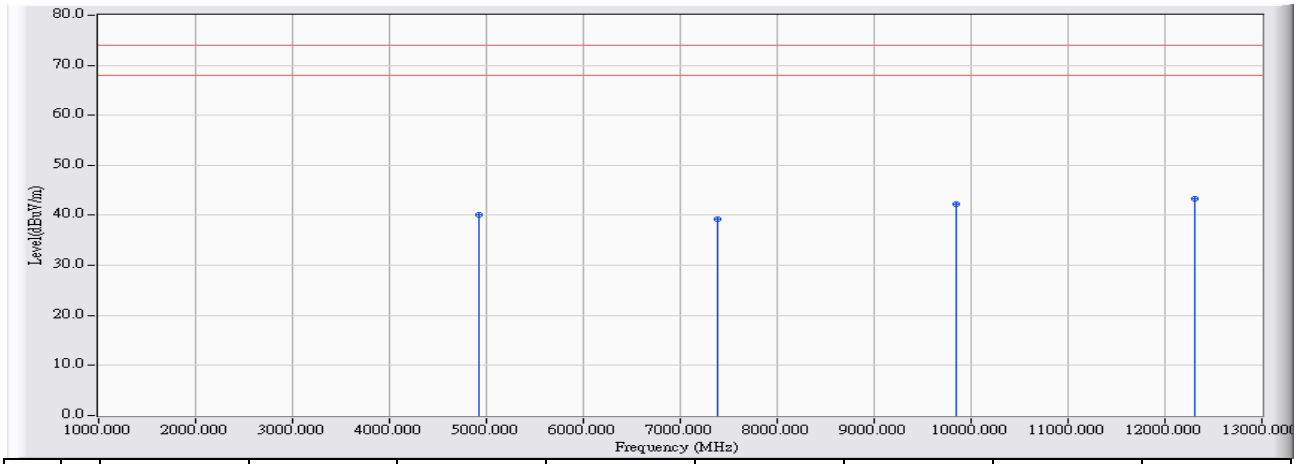


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4874.050	-5.293	45.296	40.003	-33.997	74.000	54.000	PEAK
2		7312.500	0.642	38.524	39.166	-34.834	74.000	54.000	PEAK
3		9747.700	2.530	37.552	40.083	-33.917	74.000	54.000	PEAK
4	*	12185.400	5.784	36.146	41.930	-32.070	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/04/12 - 17:01
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2462_802.11b

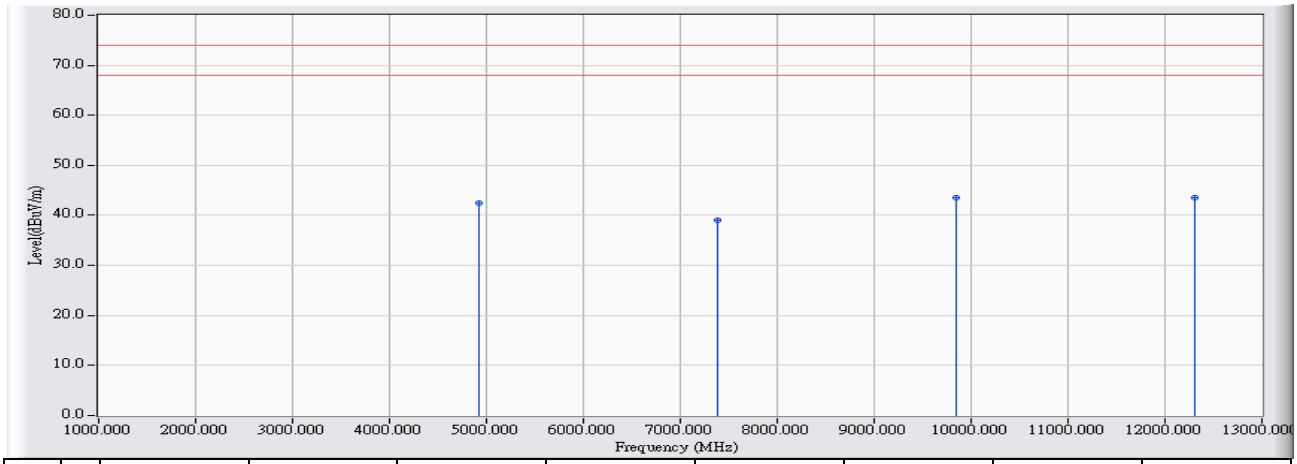


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4923.800	-5.165	45.369	40.203	-33.797	74.000	54.000	PEAK
2		7386.300	0.948	38.320	39.268	-34.732	74.000	54.000	PEAK
3		9848.250	2.600	39.635	42.235	-31.765	74.000	54.000	PEAK
4	*	12310.100	5.939	37.419	43.358	-30.642	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/04/12 - 17:03
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2462_802.11b

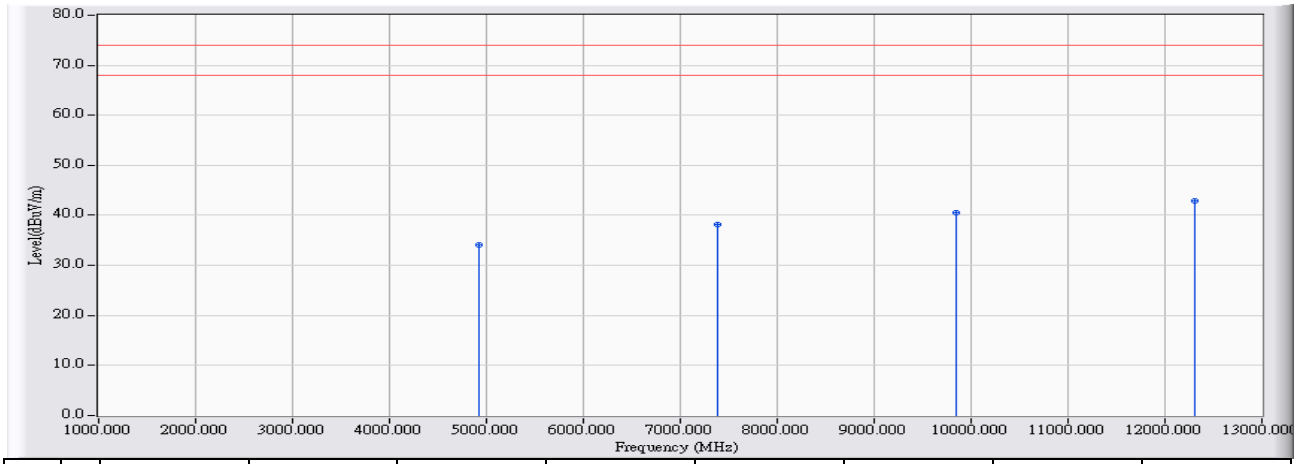


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4924.000	-5.165	47.565	42.400	-31.600	74.000	54.000	PEAK
2		7384.600	0.941	38.067	39.008	-34.992	74.000	54.000	PEAK
3	*	9847.900	2.599	41.032	43.632	-30.368	74.000	54.000	PEAK
4		12310.150	5.939	37.540	43.479	-30.521	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/04/12 - 17:22
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2462_802.11g

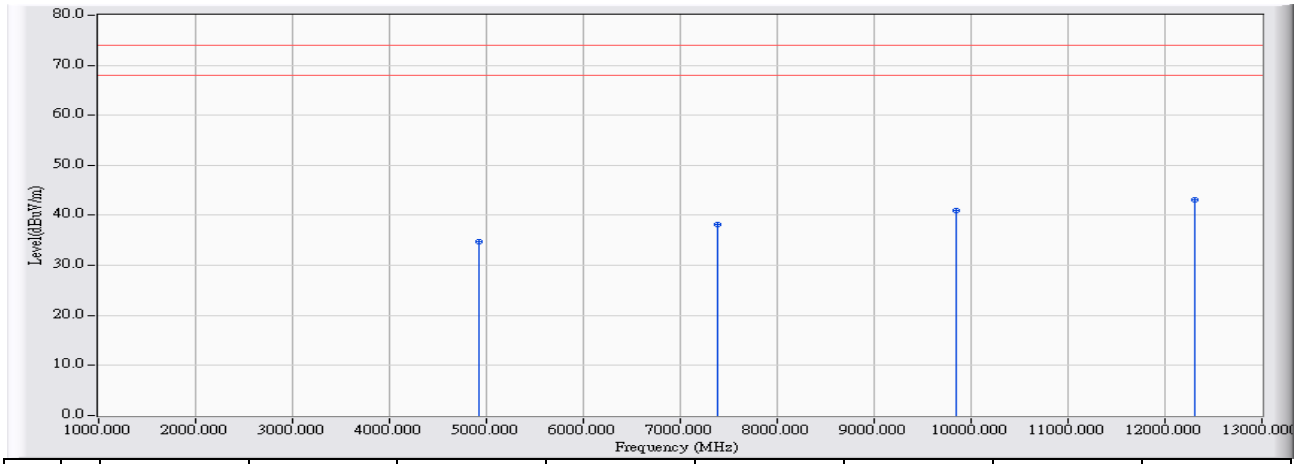


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4923.600	-5.167	39.296	34.130	-39.870	74.000	54.000	PEAK
2		7386.250	0.948	37.248	38.196	-35.804	74.000	54.000	PEAK
3		9848.000	2.600	38.020	40.620	-33.380	74.000	54.000	PEAK
4	*	12309.750	5.939	37.048	42.986	-31.014	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/04/12 - 17:27
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2462_802.11g

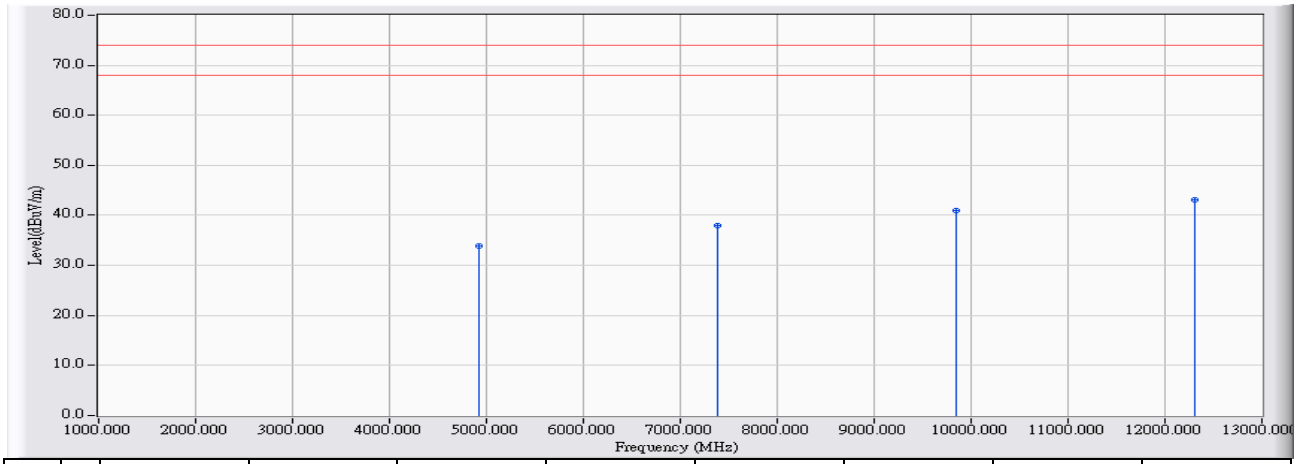


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4927.700	-5.156	39.837	34.681	-39.319	74.000	54.000	PEAK
2		7386.250	0.948	37.122	38.070	-35.930	74.000	54.000	PEAK
3		9848.300	2.600	38.407	41.007	-32.993	74.000	54.000	PEAK
4	*	12309.650	5.938	37.256	43.194	-30.806	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/04/12 - 17:46
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2462_802.11n(20M)

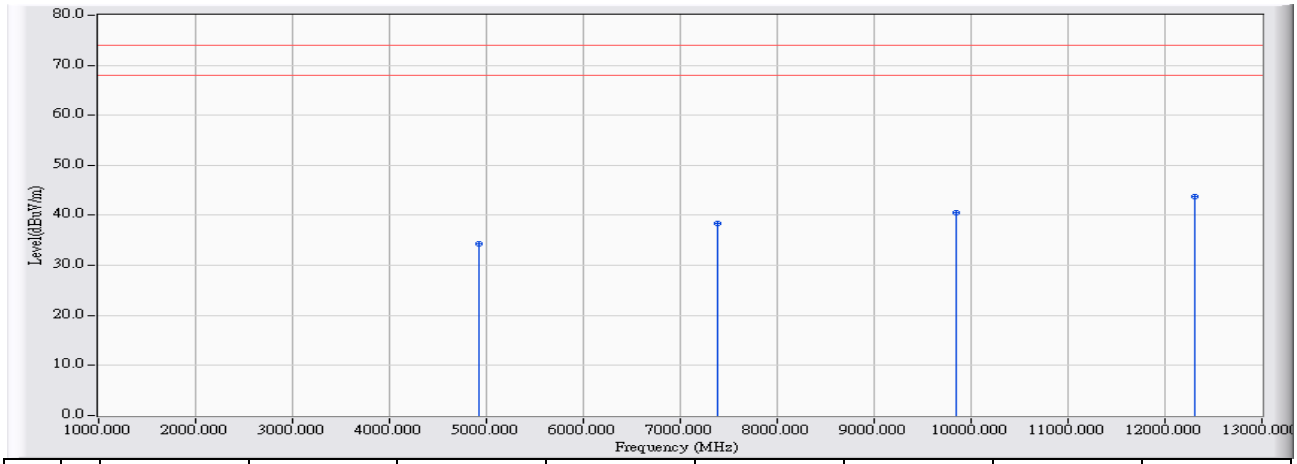


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4923.800	-5.165	39.132	33.966	-40.034	74.000	54.000	PEAK
2		7386.050	0.947	36.962	37.909	-36.091	74.000	54.000	PEAK
3		9848.100	2.600	38.308	40.908	-33.092	74.000	54.000	PEAK
4	*	12309.850	5.939	37.073	43.011	-30.989	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/04/12 - 17:51
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2462_802.11n(20M)

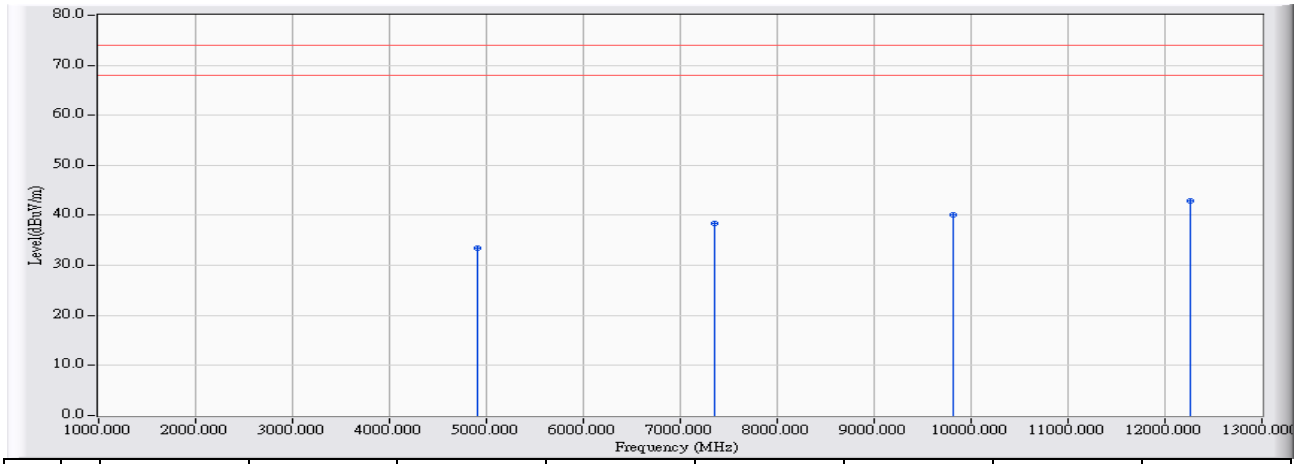


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4922.950	-5.168	39.448	34.280	-39.720	74.000	54.000	PEAK
2		7384.950	0.943	37.488	38.431	-35.569	74.000	54.000	PEAK
3		9848.000	2.600	37.983	40.583	-33.417	74.000	54.000	PEAK
4	*	12310.695	5.939	37.714	43.654	-30.346	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/04/12 - 18:26
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2452_802.11n(40M)

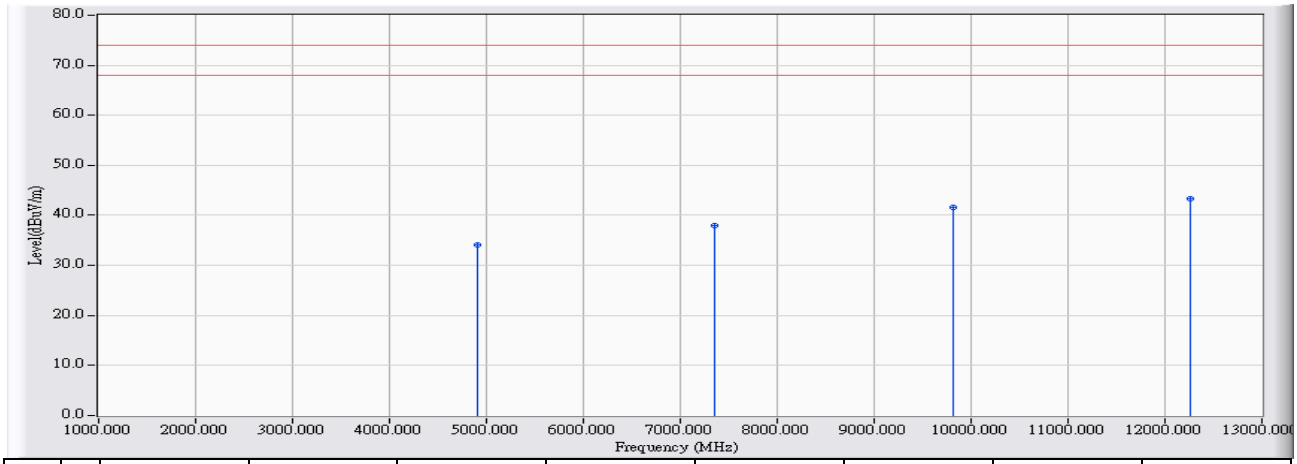


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4904.150	-5.216	38.610	33.394	-40.606	74.000	54.000	PEAK
2		7356.350	0.823	37.539	38.363	-35.637	74.000	54.000	PEAK
3		9807.950	2.572	37.573	40.145	-33.855	74.000	54.000	PEAK
4	*	12261.650	5.879	37.028	42.906	-31.094	74.000	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/04/12 - 18:32
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2452_802.11n(40M)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4903.500	-5.218	39.355	34.138	-39.862	74.000	54.000	PEAK
2		7356.450	0.824	37.079	37.903	-36.097	74.000	54.000	PEAK
3		9808.400	2.572	38.997	41.570	-32.430	74.000	54.000	PEAK
4	*	12260.400	5.878	37.482	43.359	-30.641	74.000	54.000	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 equipment is used during the test:

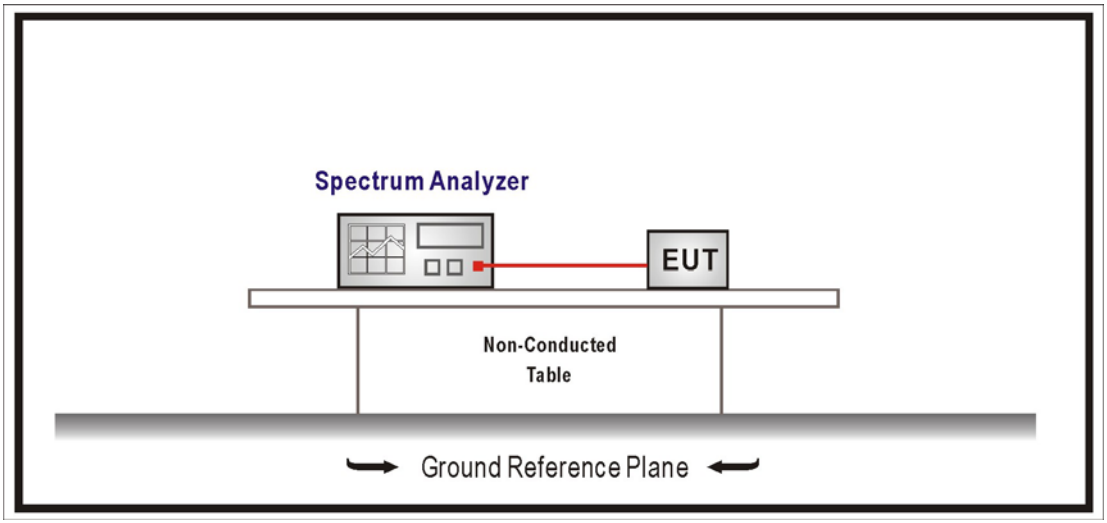
RF antenna conducted test / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2012/02/04

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

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 setup according to ANSI C63.4: 2009 and 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. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2010

5.6. Uncertainty

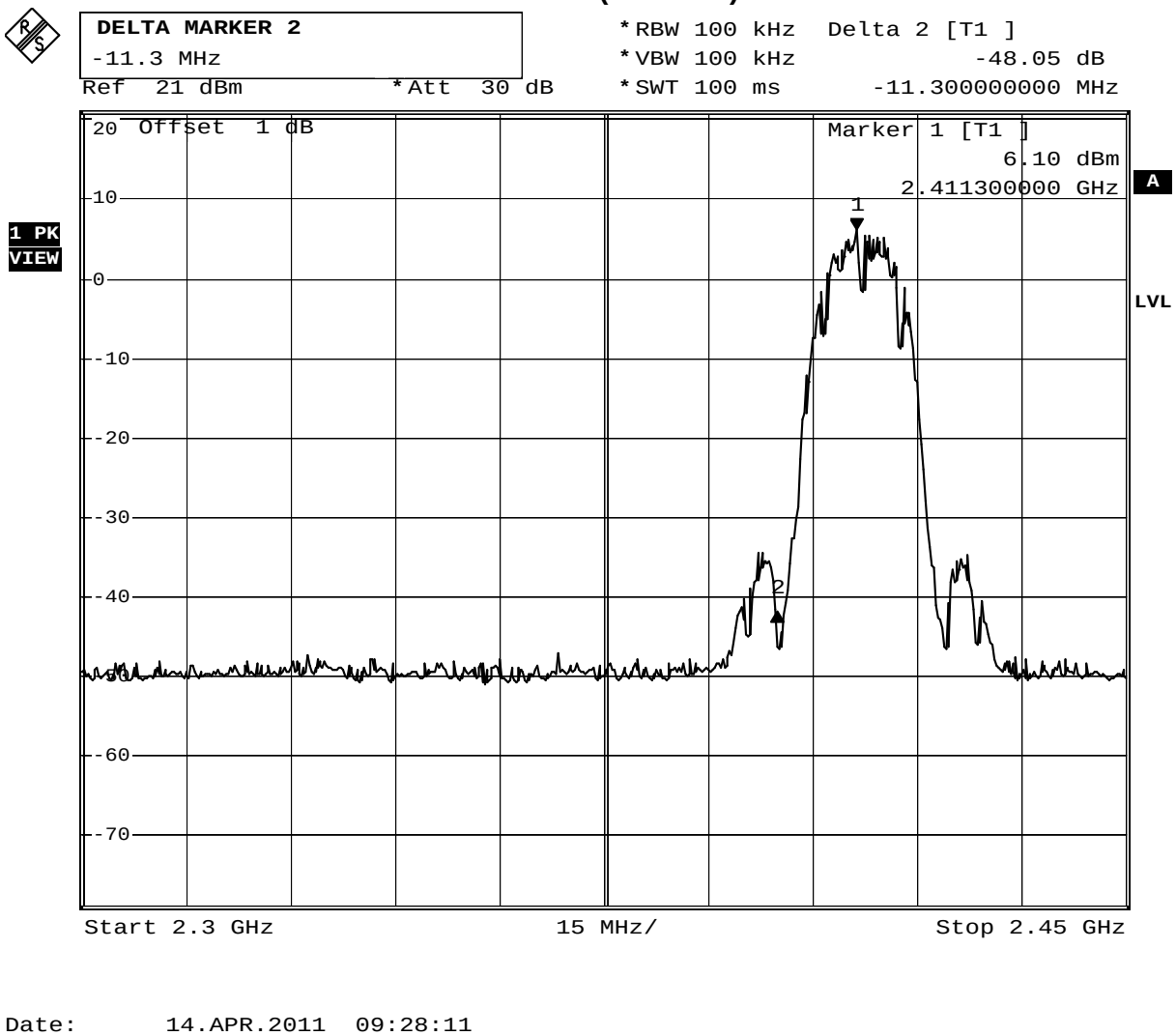
Conducted is defined as ± 1.27dB

5.7. Test Result

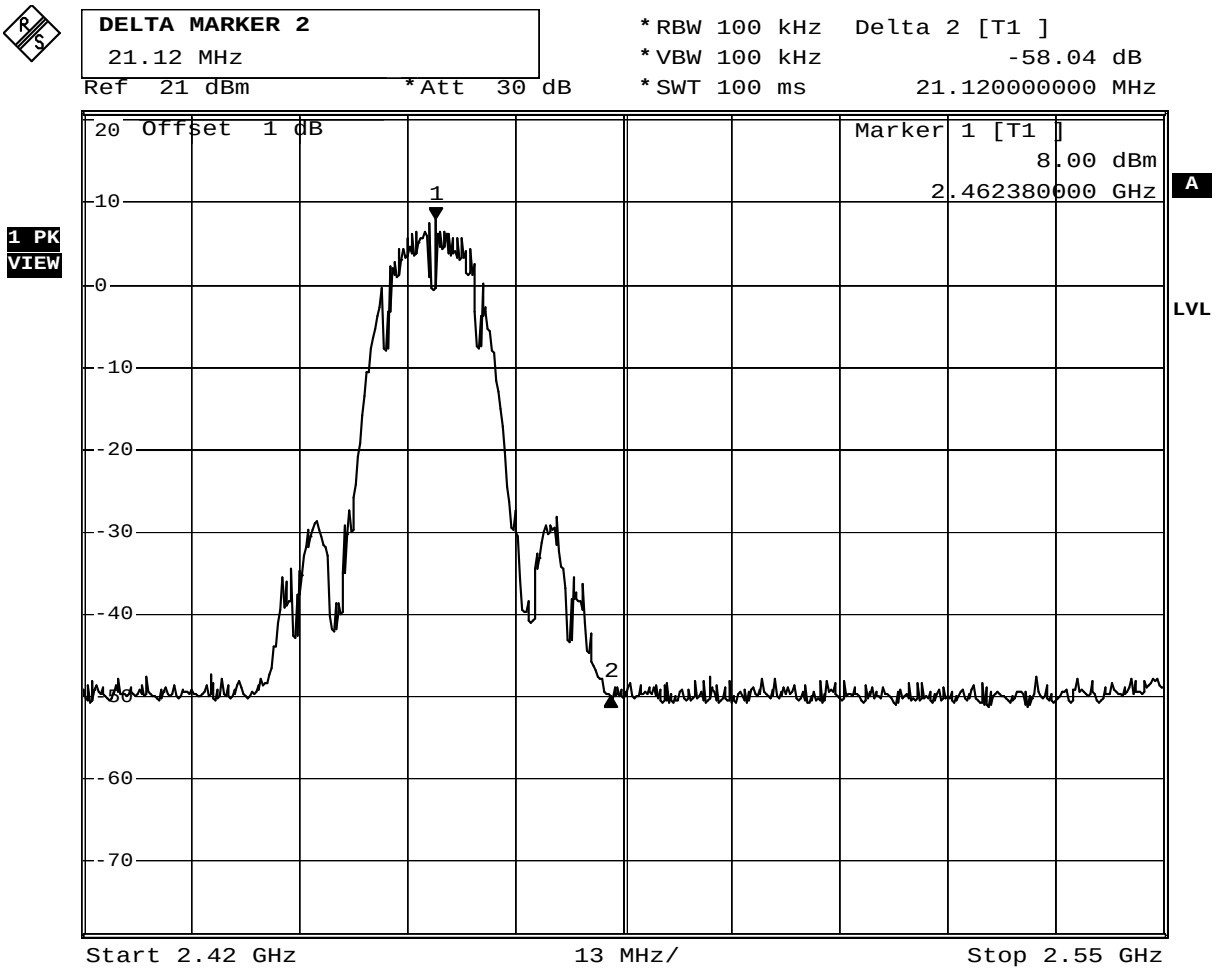
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE 802.11b, Antenna Gain: 2.1dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	48.05	≧20	Pass
11	2462	58.04	≧20	Pass

Channel 01 (2412MHz)



Channel 11 (2462MHz)

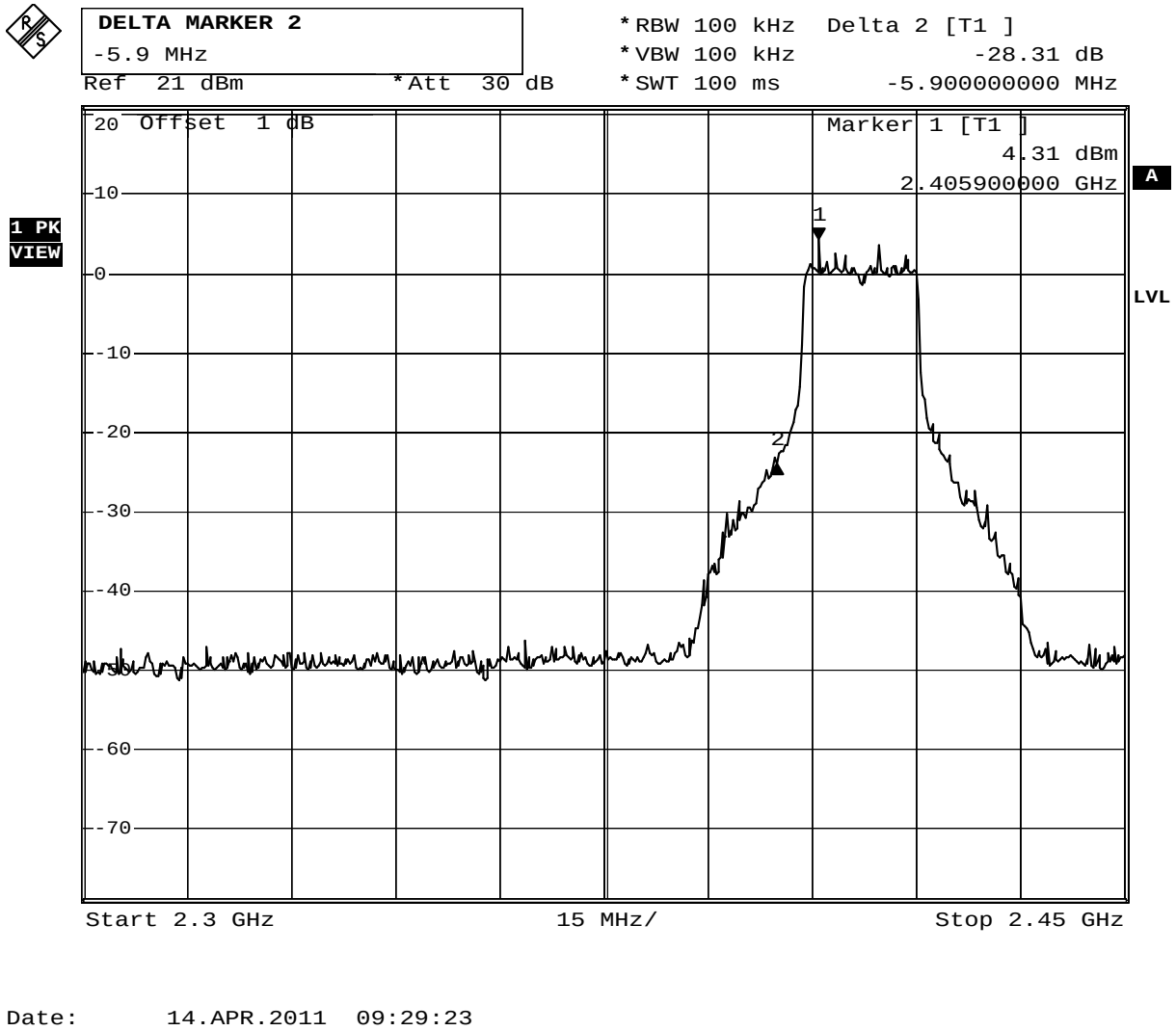


Date: 14.APR.2011 09:23:39

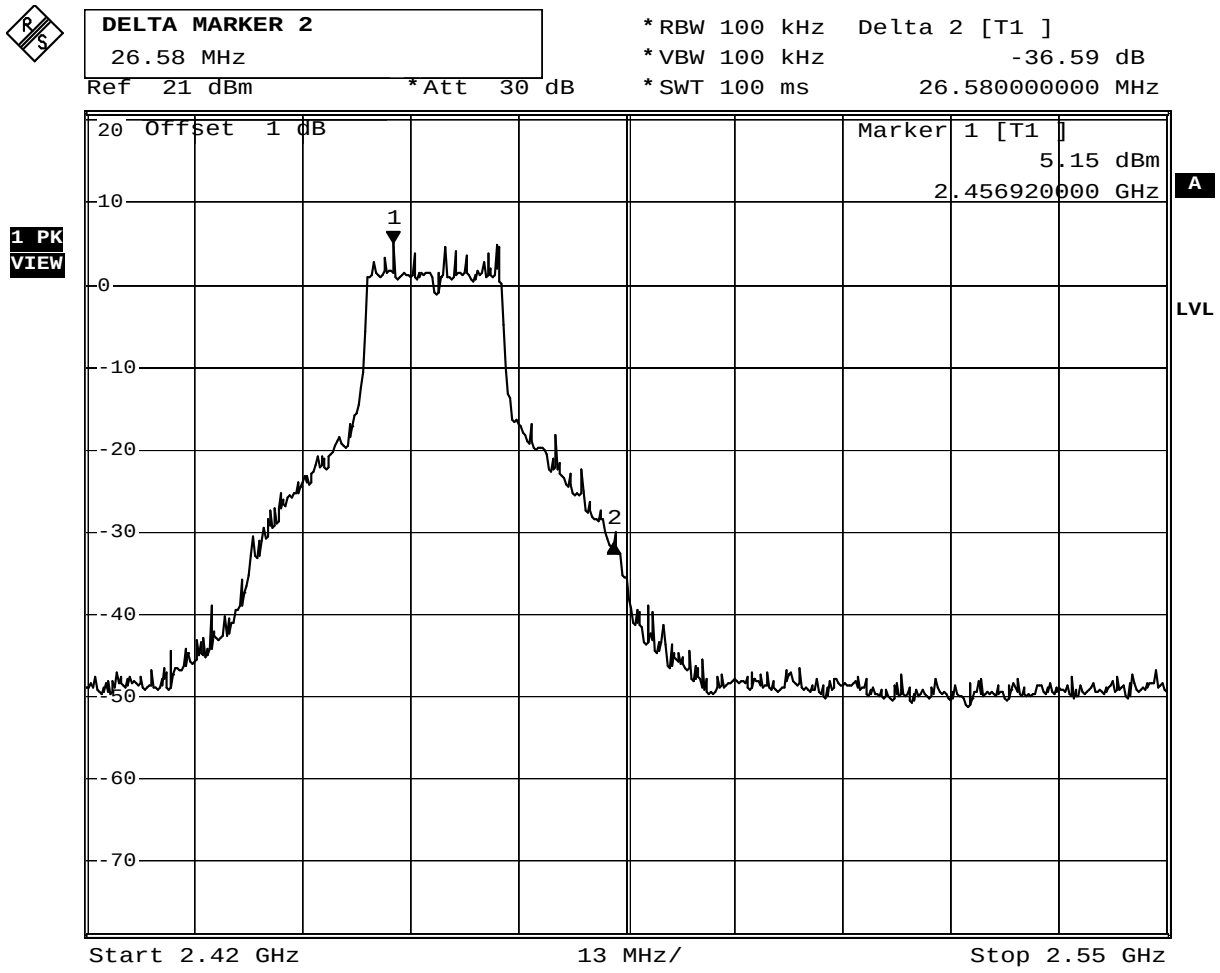
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE 802.11g, Antenna Gain: 2.1dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	28.31	≧20	Pass
11	2462	36.59	≧20	Pass

Channel 01 (2412MHz)



Channel 11 (2462MHz)

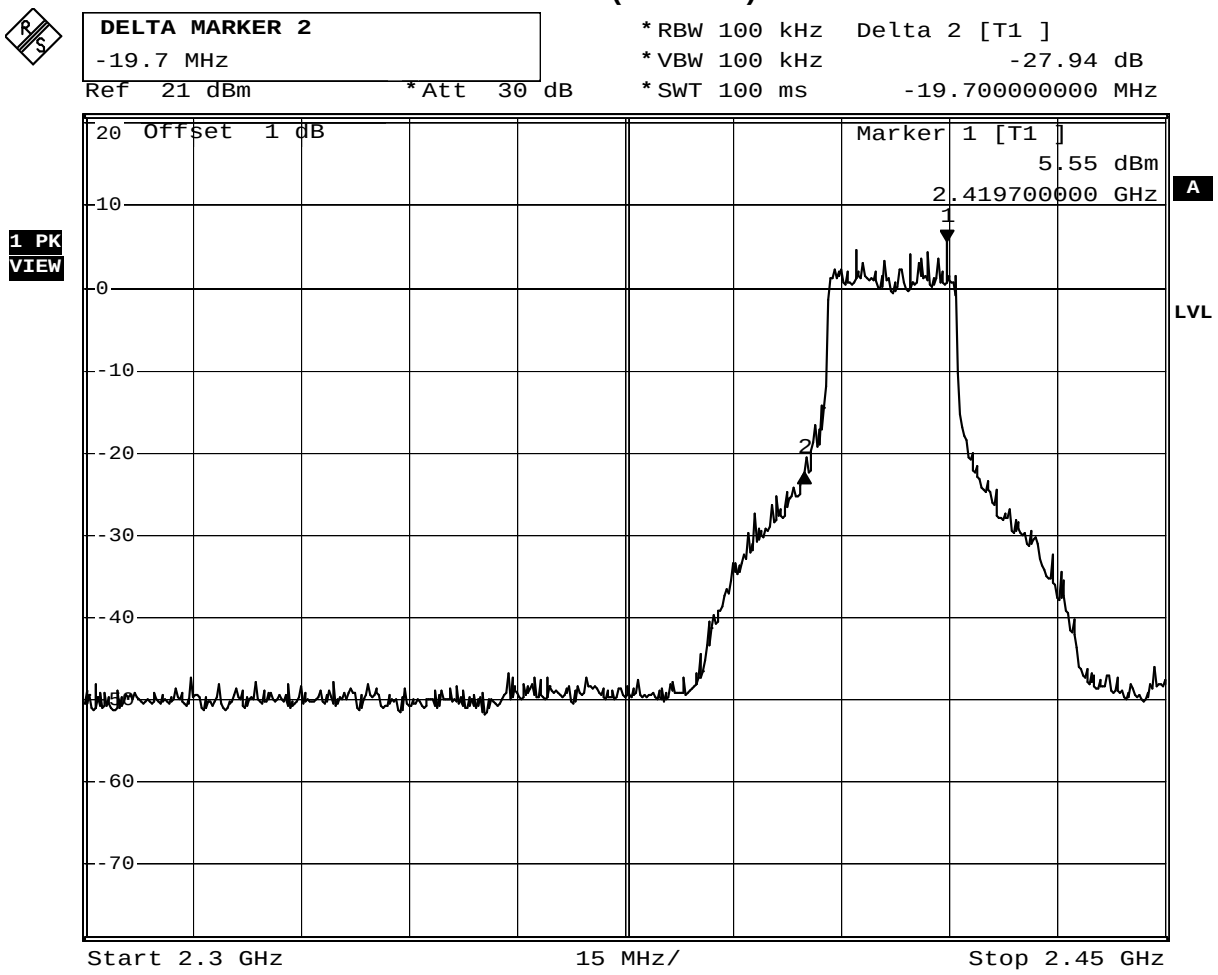


Date: 14.APR.2011 09:30:10

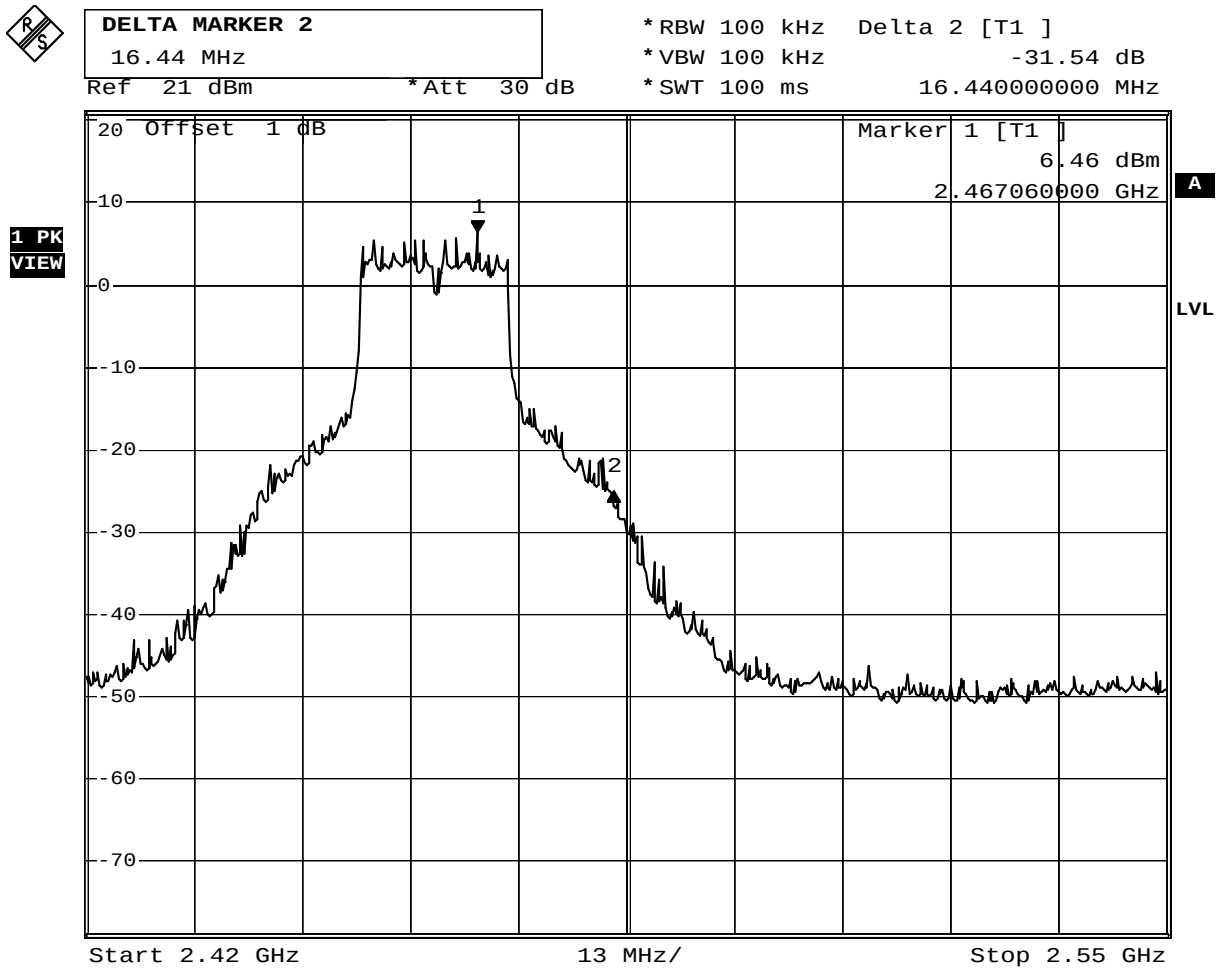
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE 802.11n (ANT A (20MHz)), Antenna Gain: 2.1dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	27.94	≥20	Pass
11	2462	31.54	≥20	Pass

Channel 1 (2412MHz)



Channel 11 (2462MHz)

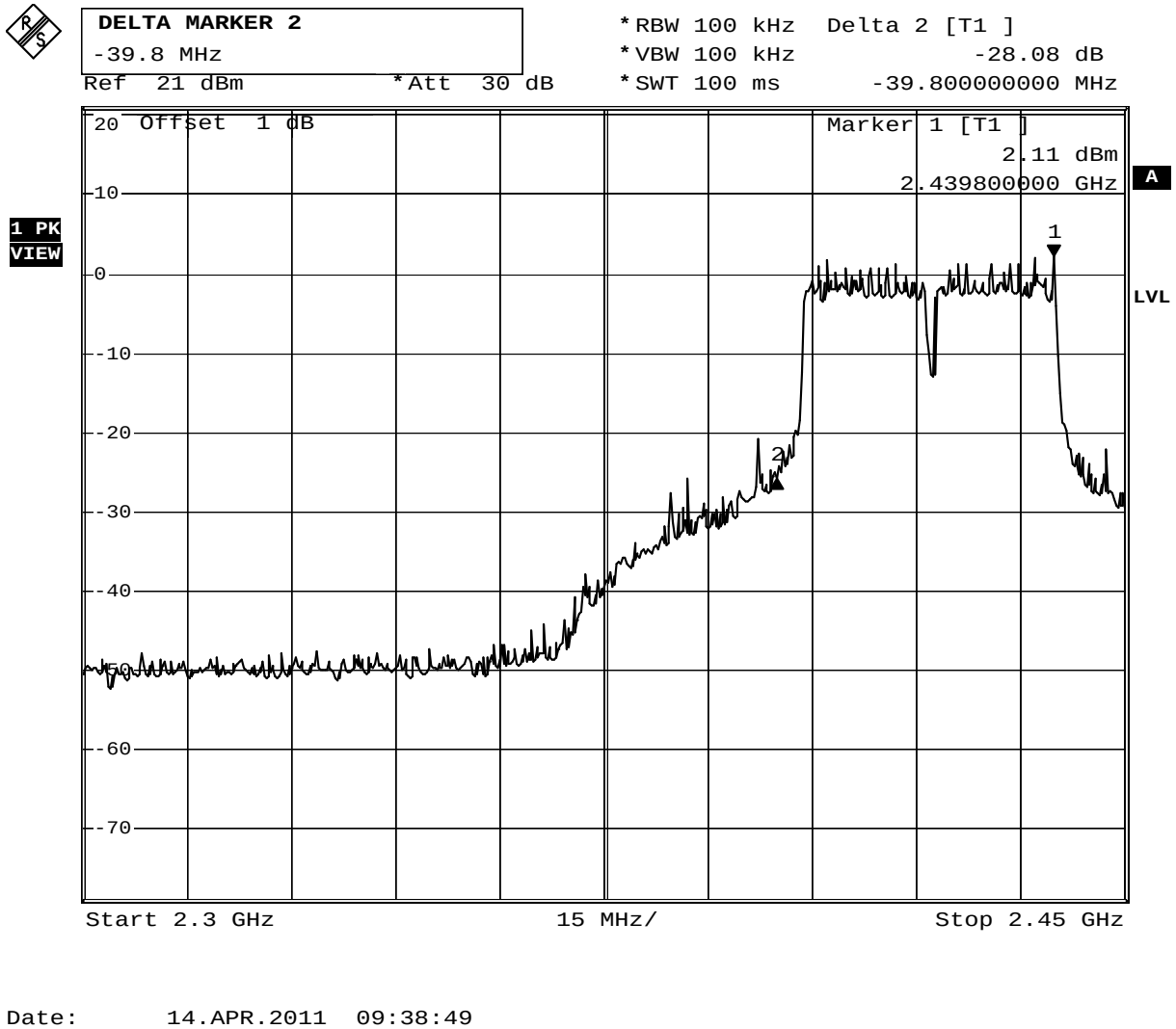


Date: 14.APR.2011 09:33:11

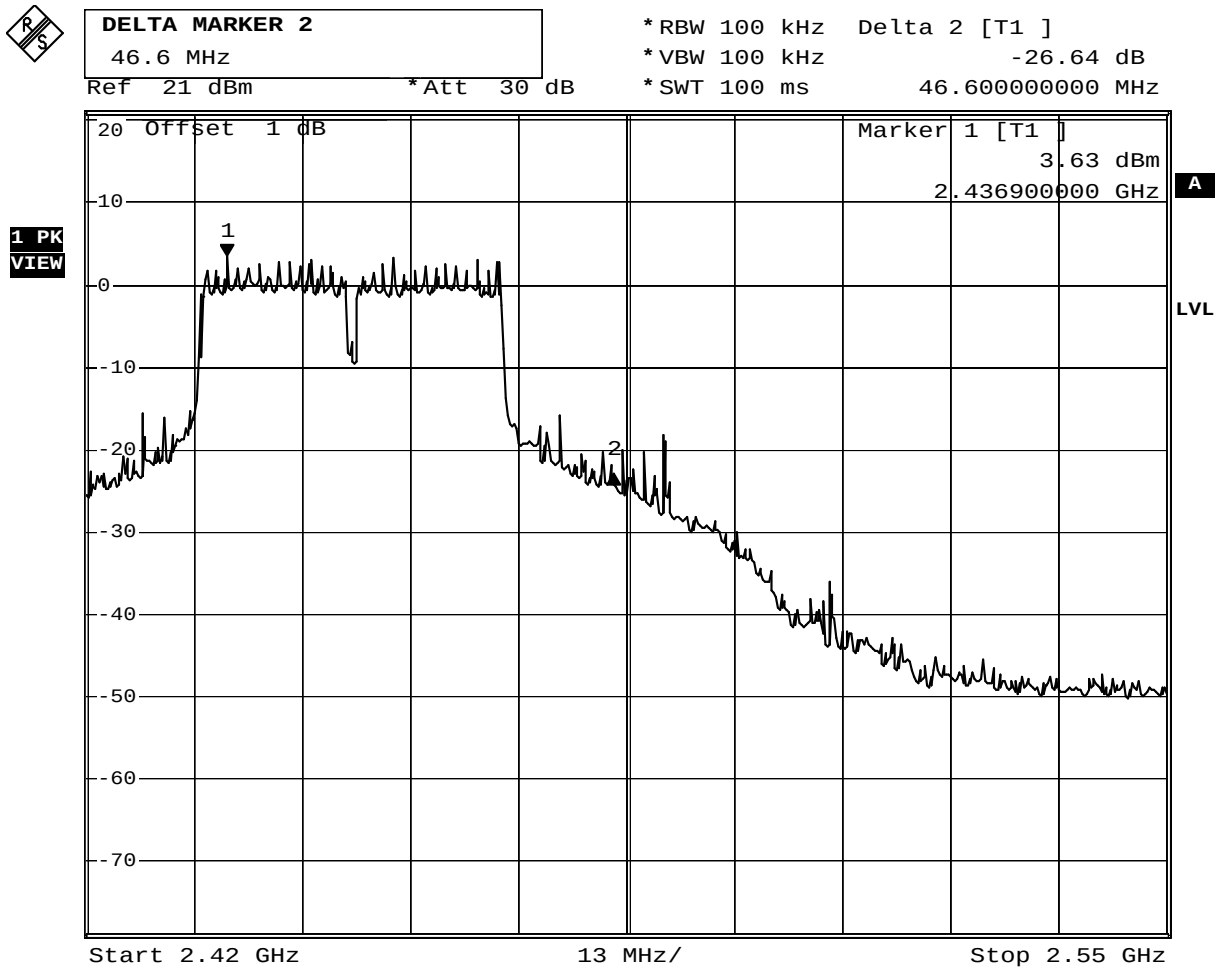
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE 802.11n (ANT A(40MHz)), Antenna Gain: 2.1dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	28.08	≥20	Pass
9	2452	26.64	≥20	Pass

Channel 3 (2422MHz)



Channel 9 (2452MHz)

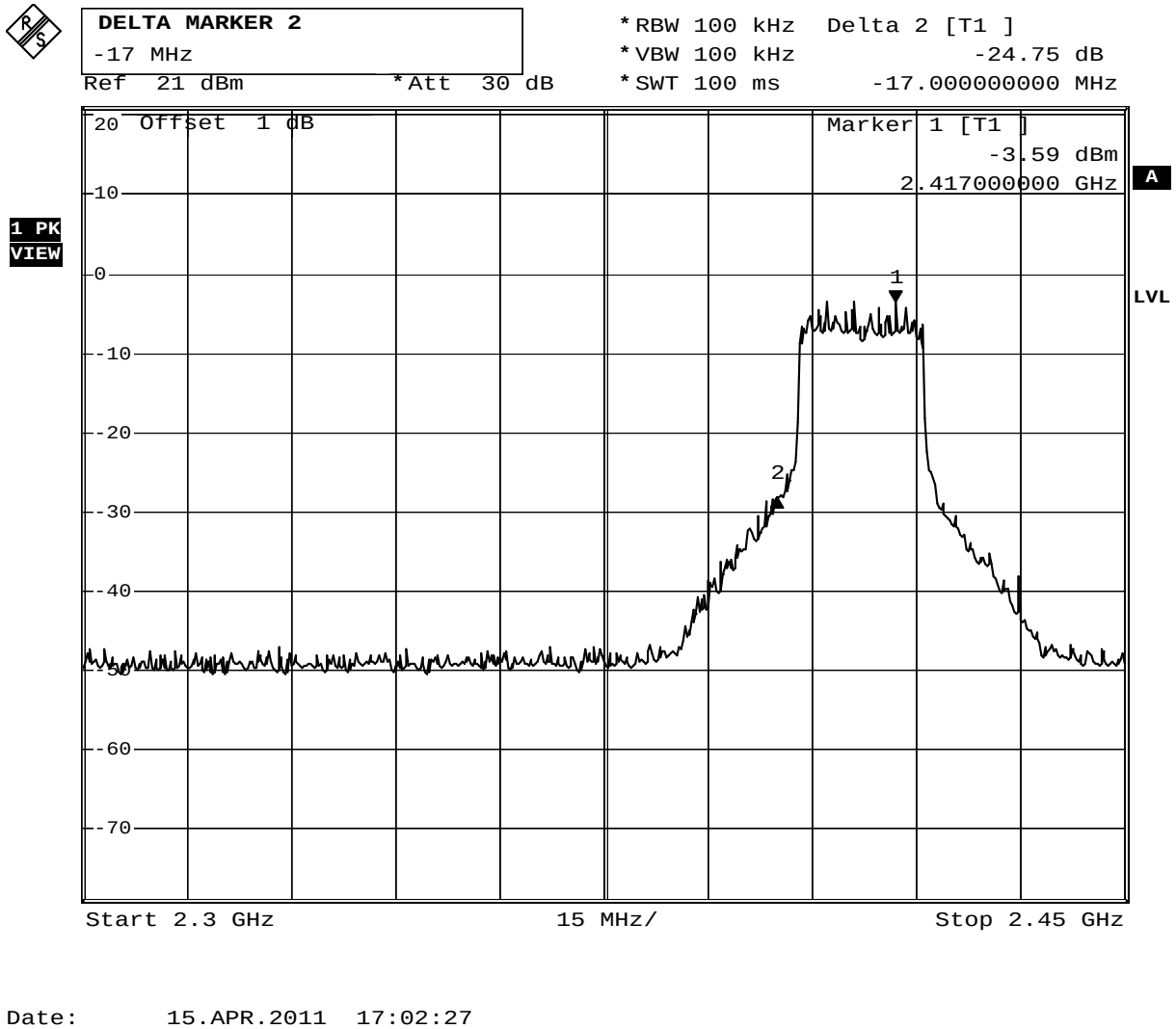


Date: 14.APR.2011 09:40:04

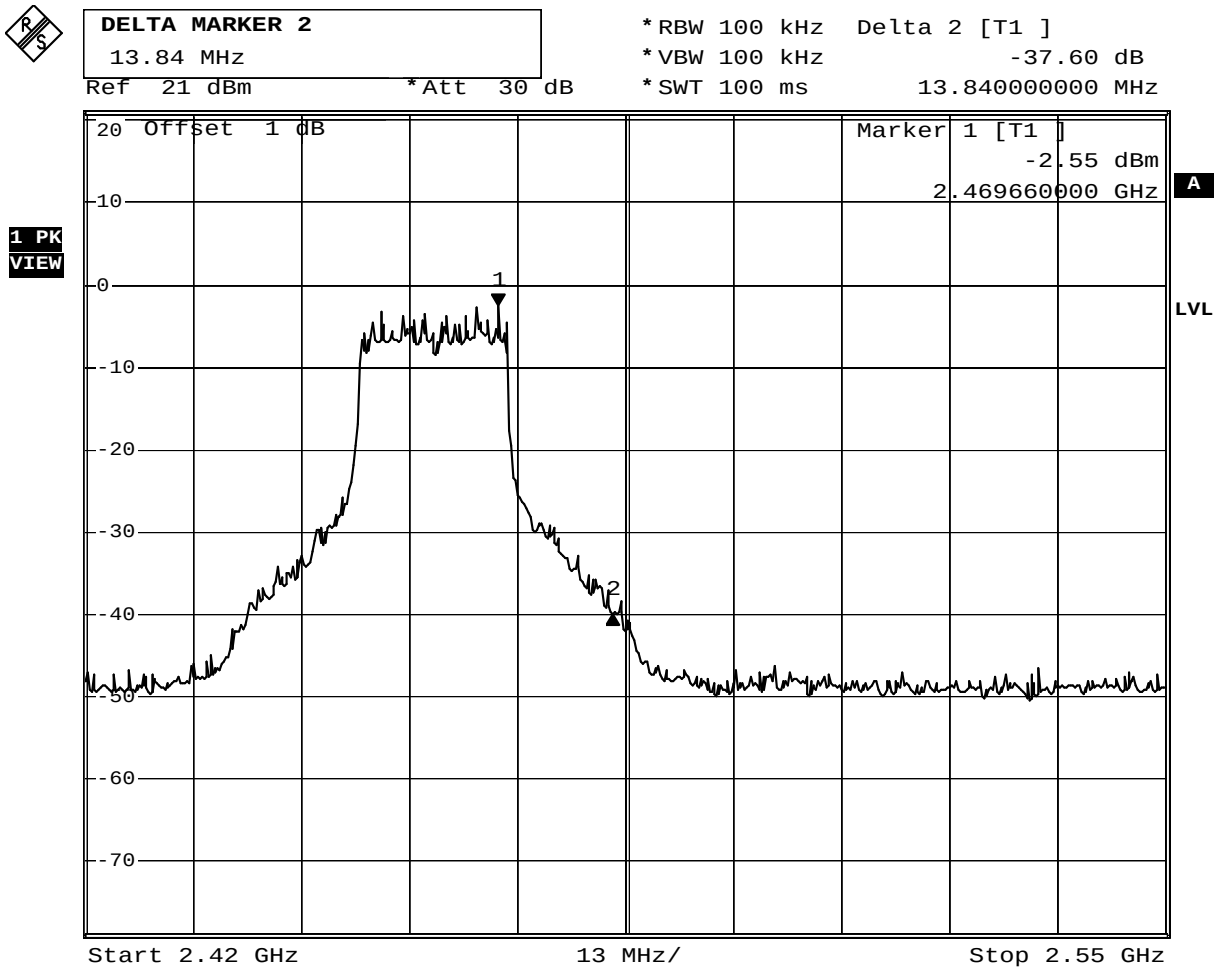
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE 802.11n (ANT B(20MHz))				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	24.75	≥30	Pass
11	2462	37.60	≥30	Pass

Channel 1 (2412MHz)



Channel 11 (2462MHz)

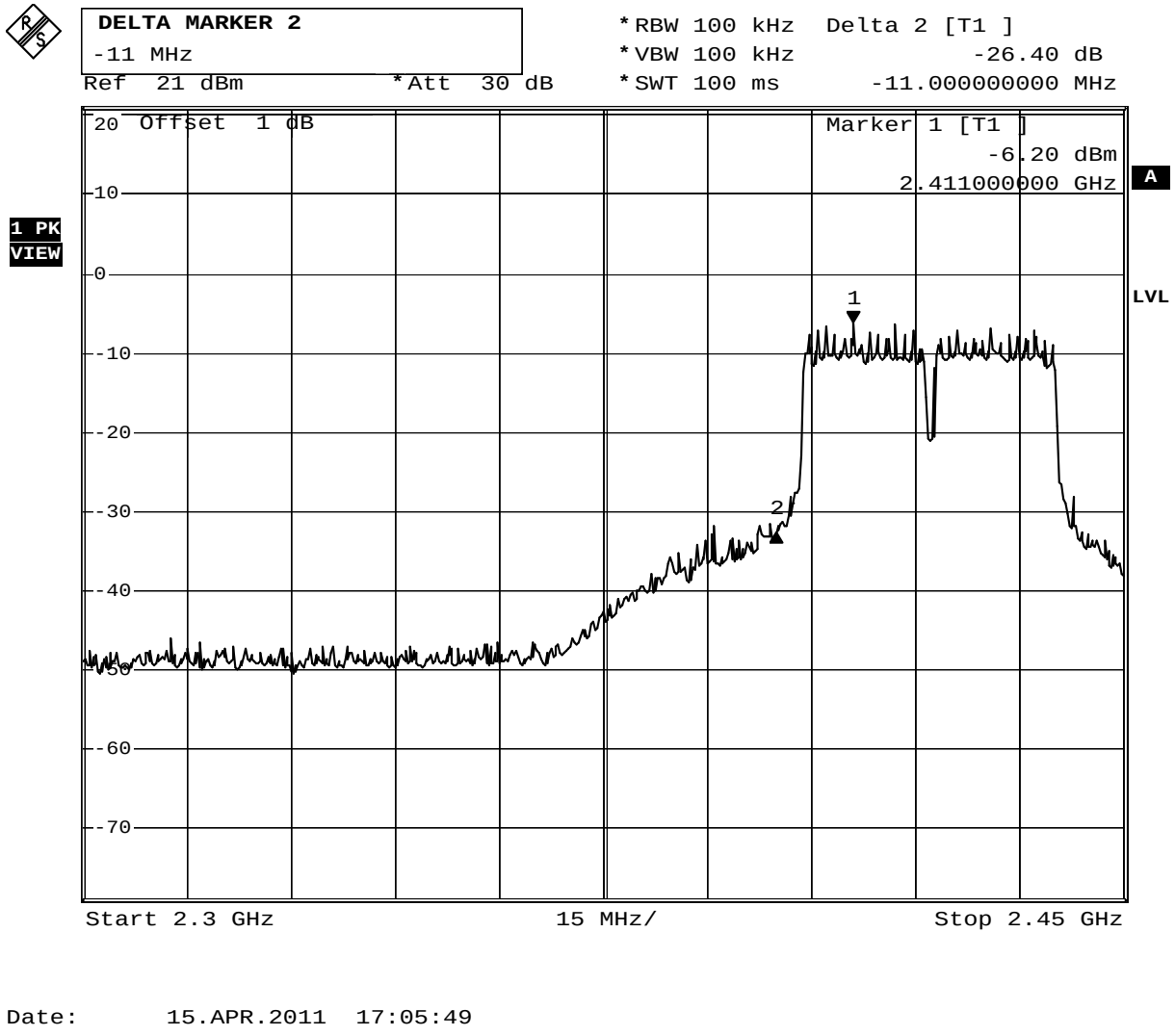


Date: 15.APR.2011 17:01:12

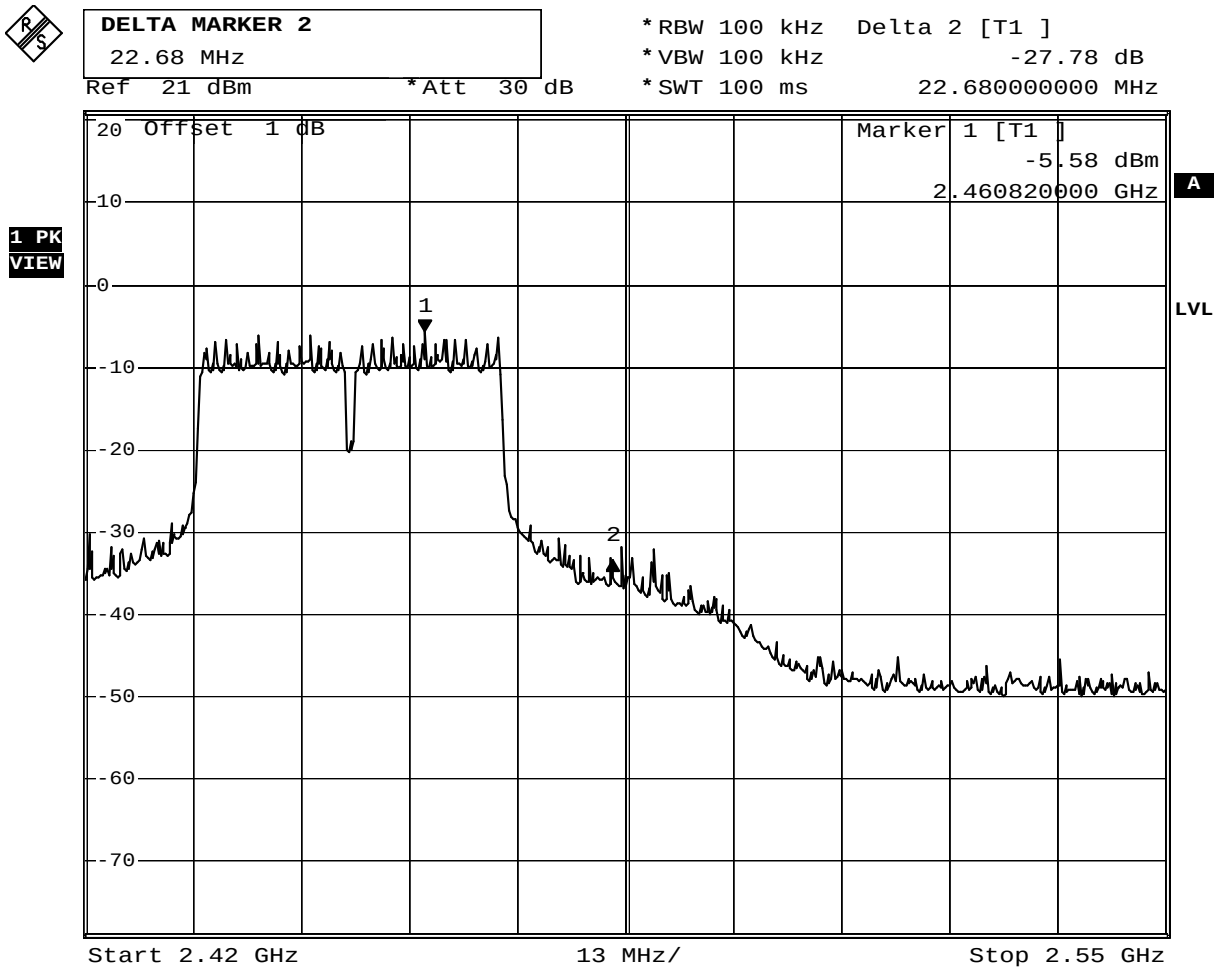
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE 802.11n (ANT B(40MHz))				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	26.40	≥30	Pass
9	2452	27.78	≥30	Pass

Channel 3 (2422MHz)



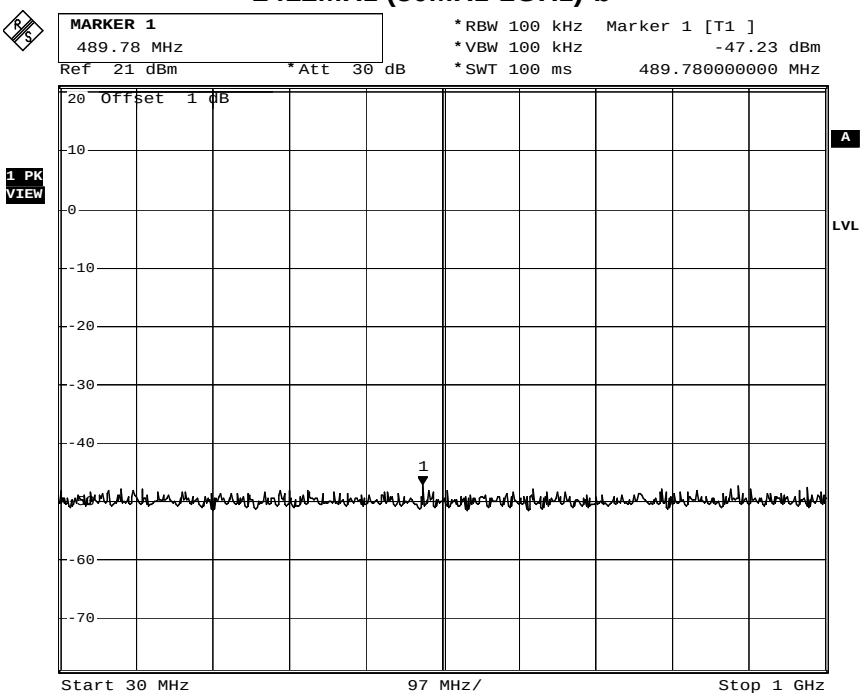
Channel 9 (2452MHz)



Date: 15.APR.2011 17:07:00

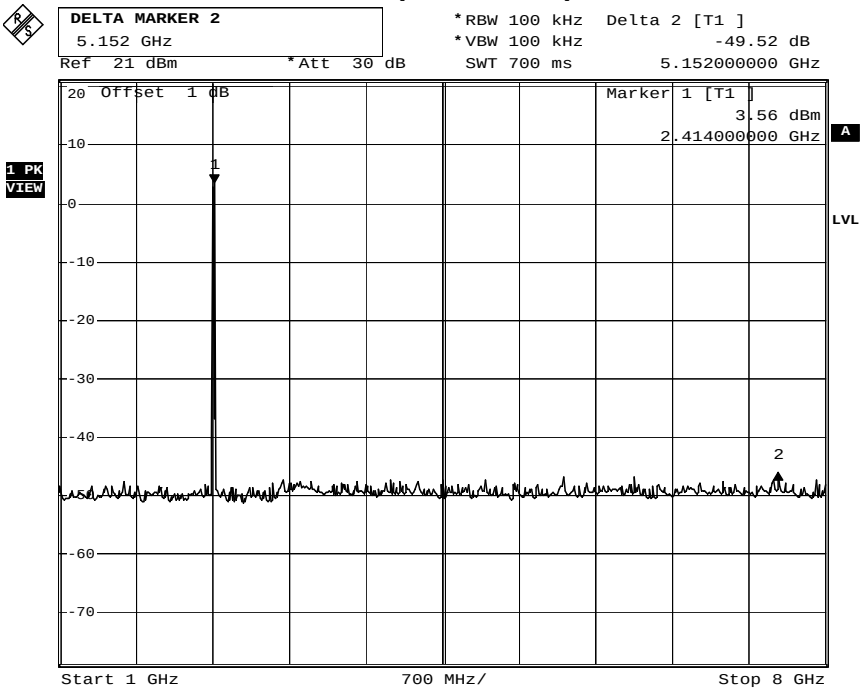
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

2412MHz (30MHz-1GHz)-b



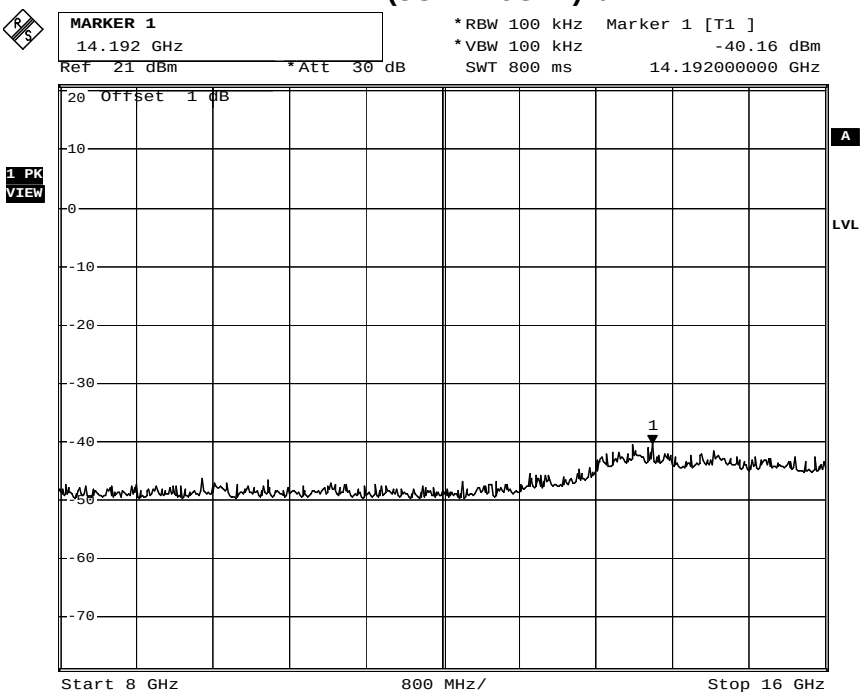
Date: 14.APR.2011 10:04:50

2412MHz (1GHz-8GHz)-b



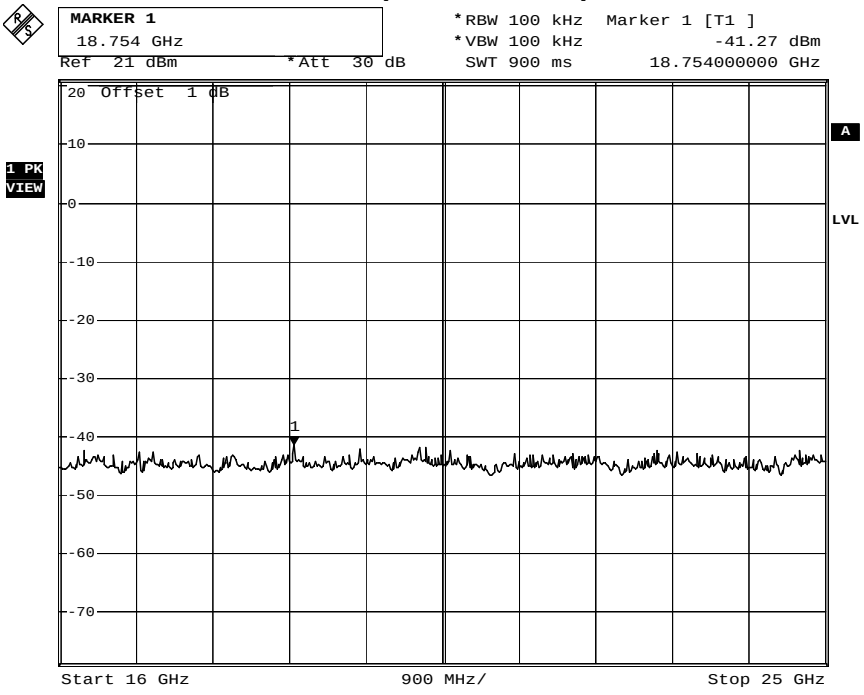
Date: 14.APR.2011 10:06:40

2412MHz (8GHz-16GHz)-b



Date: 14.APR.2011 10:08:44

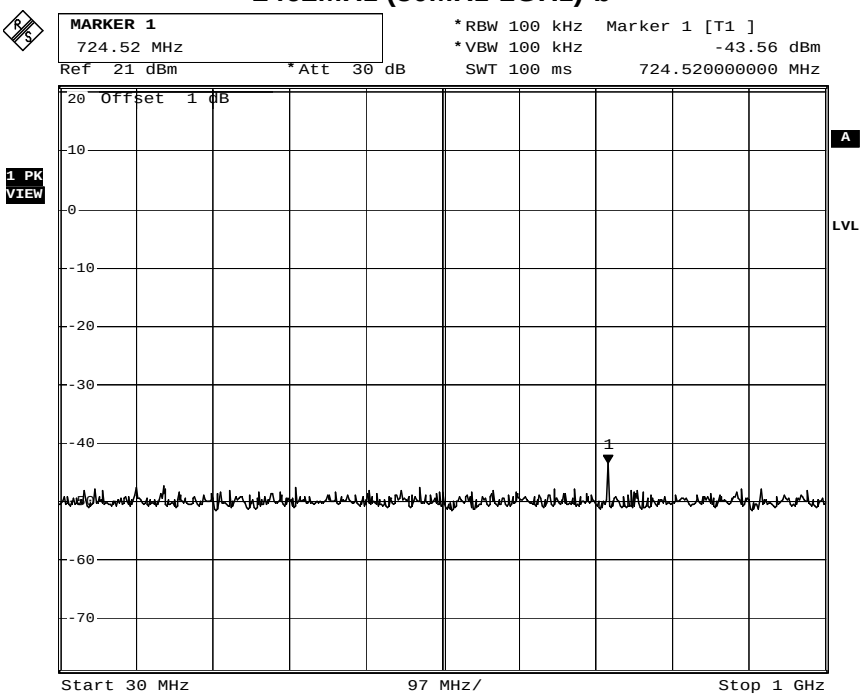
2412MHz (16GHz-25GHz)-b



Date: 14.APR.2011 10:09:46

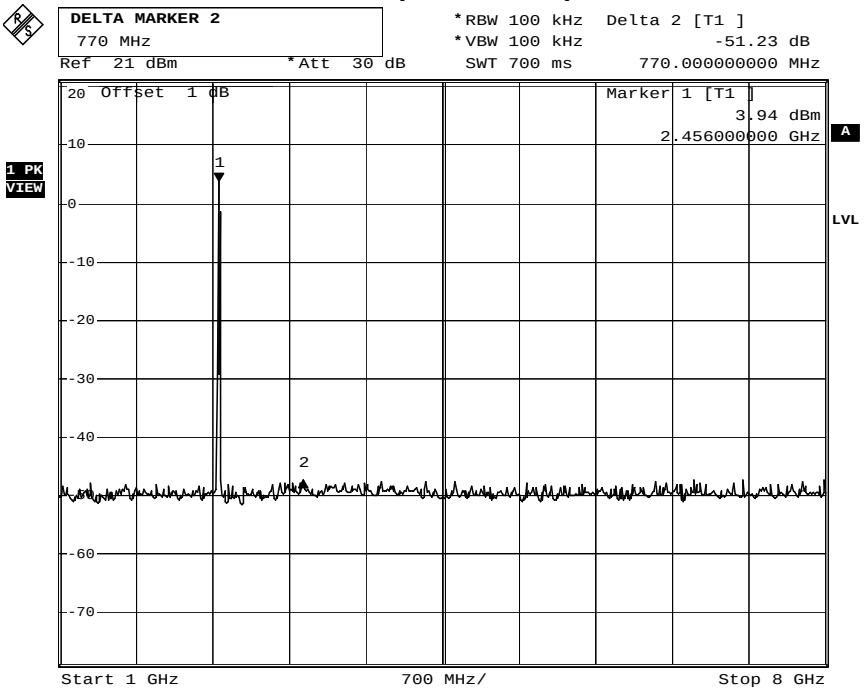
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

2462MHz (30MHz-1GHz)-b



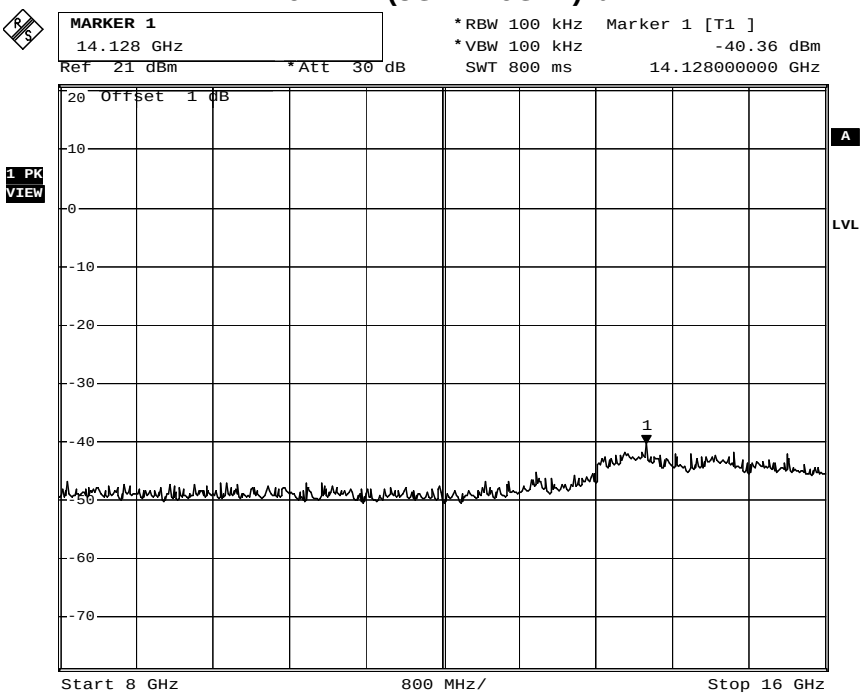
Date: 14.APR.2011 10:10:50

2462MHz (1GHz-8GHz)-b



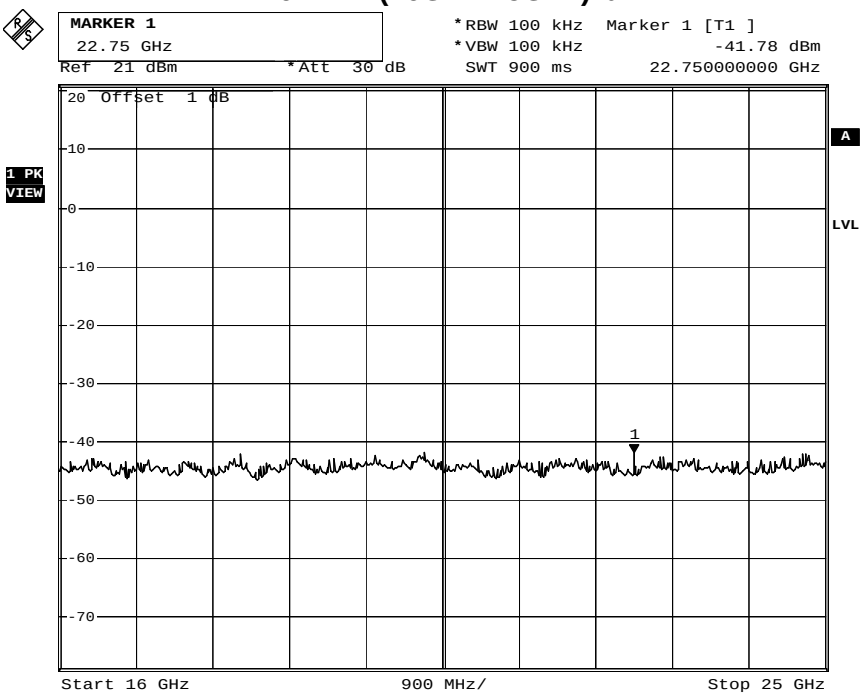
Date: 14.APR.2011 10:13:07

2462MHz (8GHz-16GHz)-b



Date: 14.APR.2011 10:13:35

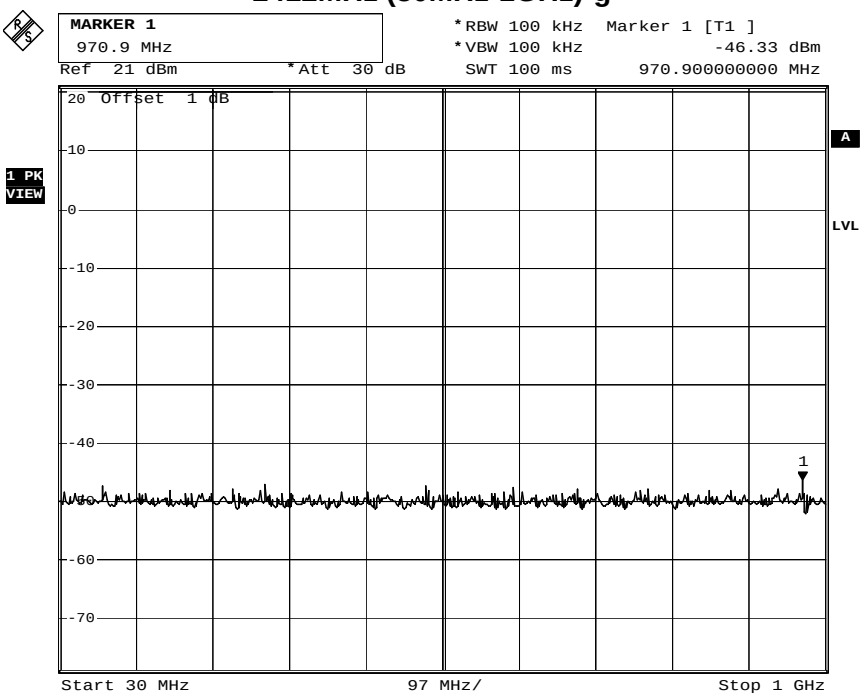
2462MHz (16GHz-25GHz)-b



Date: 14.APR.2011 10:14:51

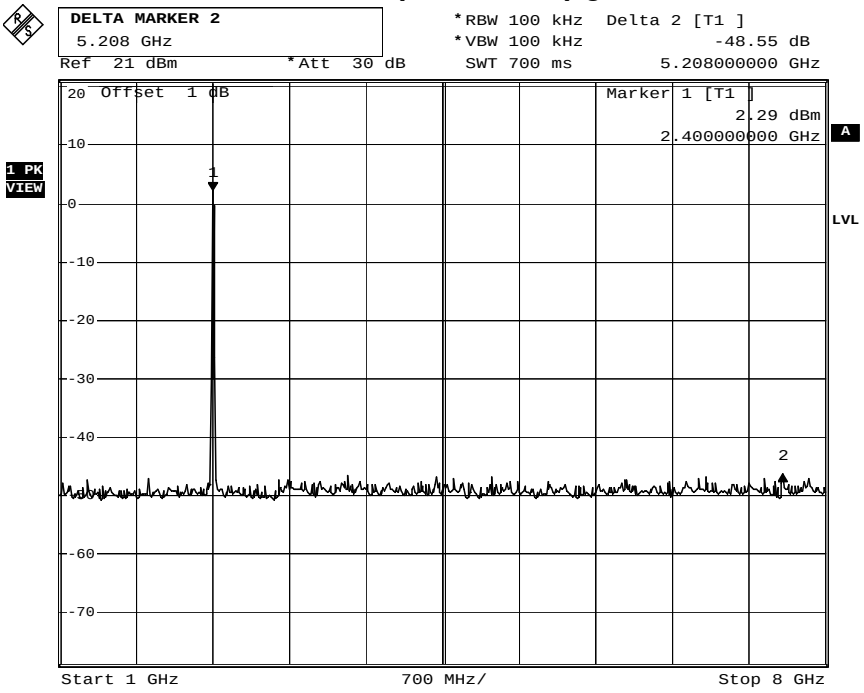
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

2412MHz (30MHz-1GHz)-g



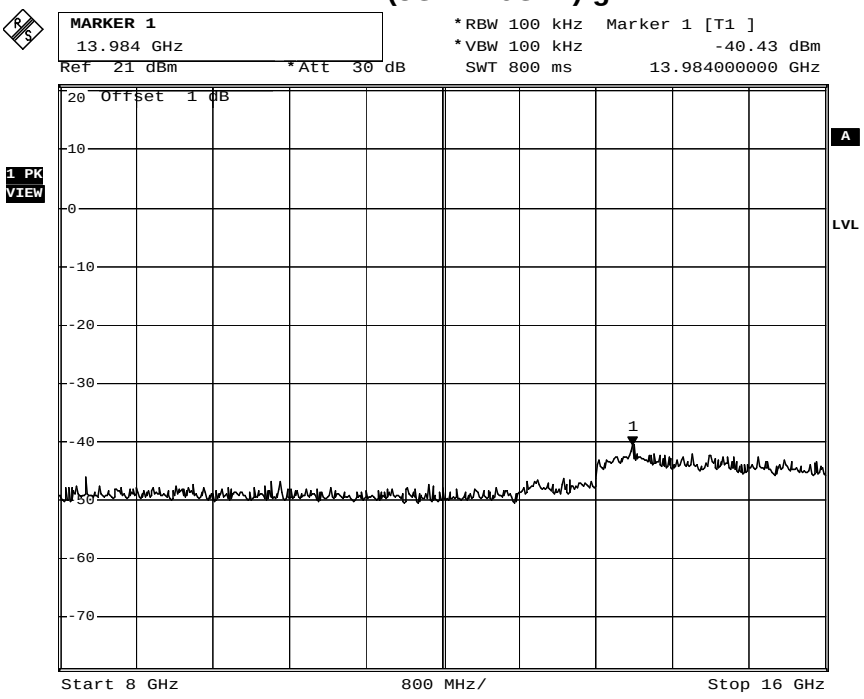
Date: 14.APR.2011 10:22:16

2412MHz (1GHz-8GHz)-g



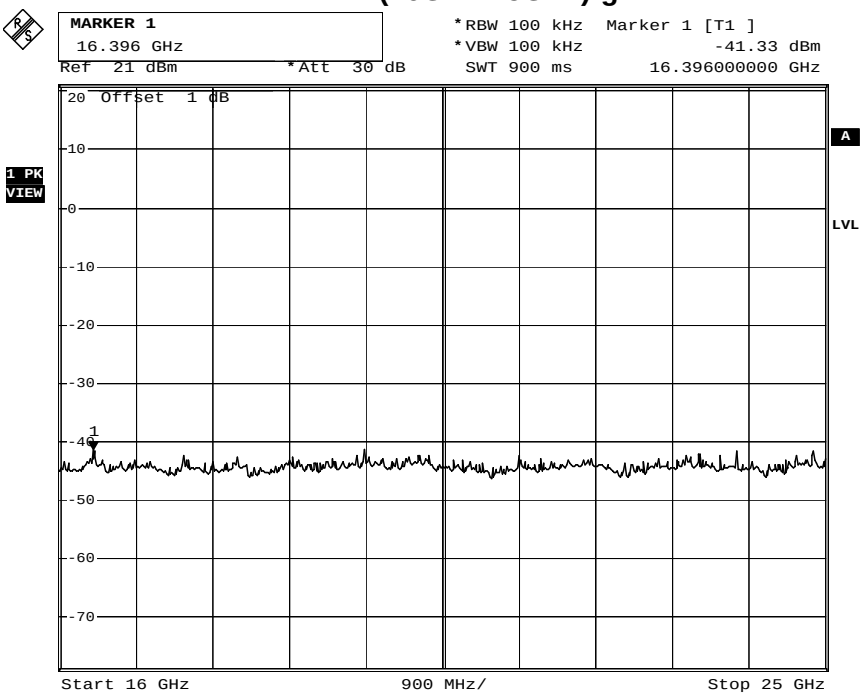
Date: 14.APR.2011 10:23:06

2412MHz (8GHz-16GHz)-g



Date: 14.APR.2011 10:23:50

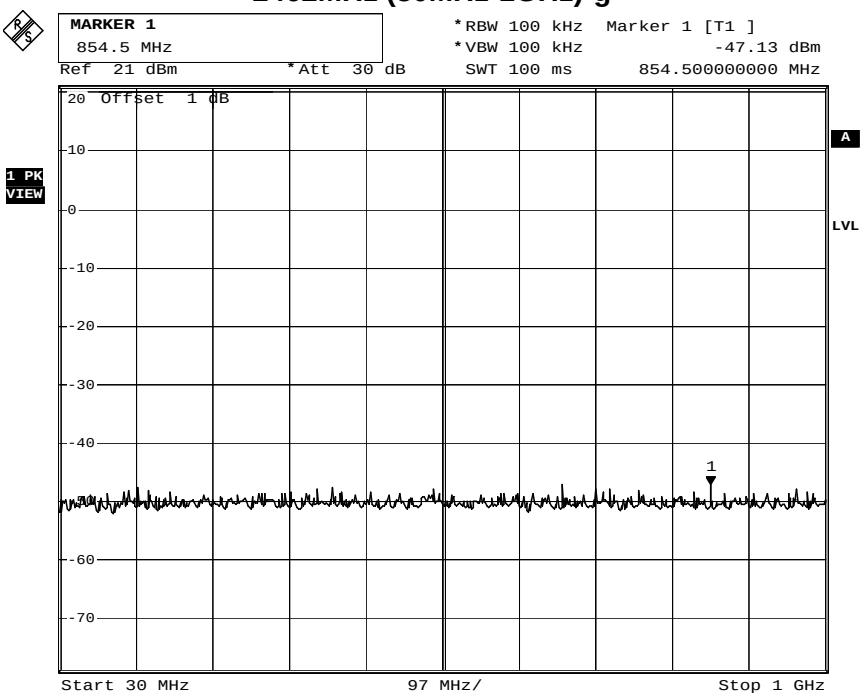
2412MHz (16GHz-25GHz)-g



Date: 14.APR.2011 10:24:28

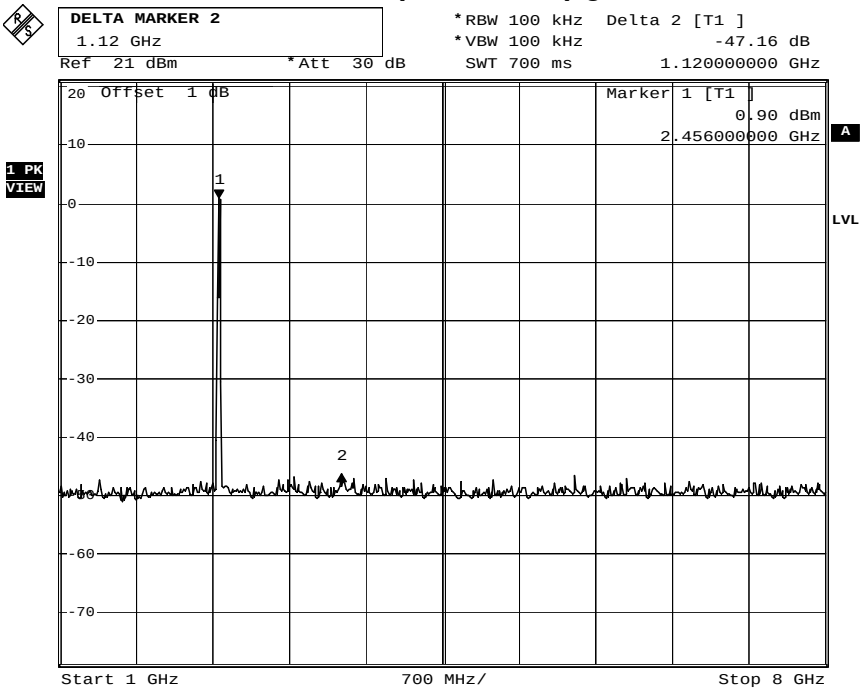
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

2462MHz (30MHz-1GHz)-g



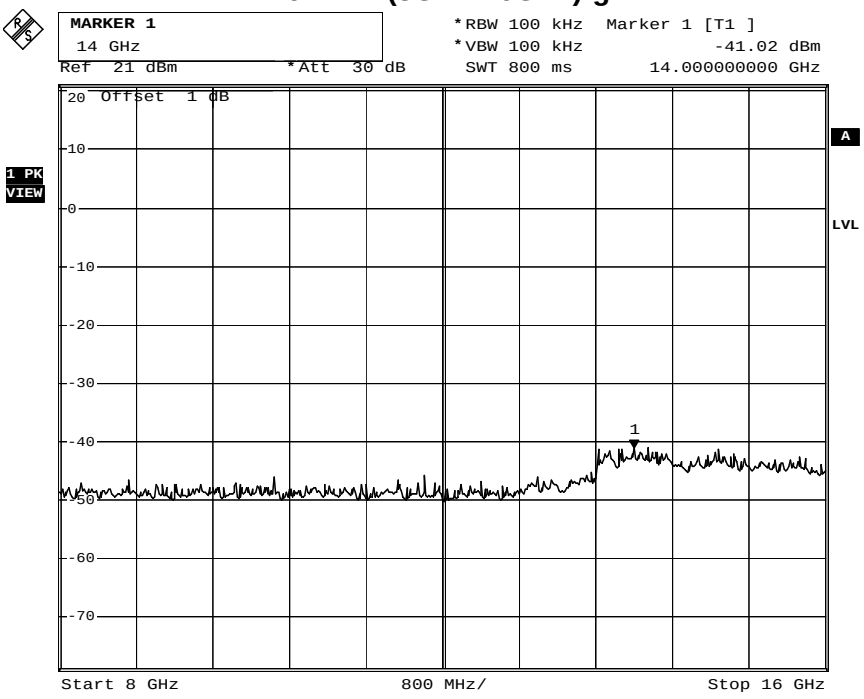
Date: 14.APR.2011 10:17:57

2462MHz (1GHz-8GHz)-g



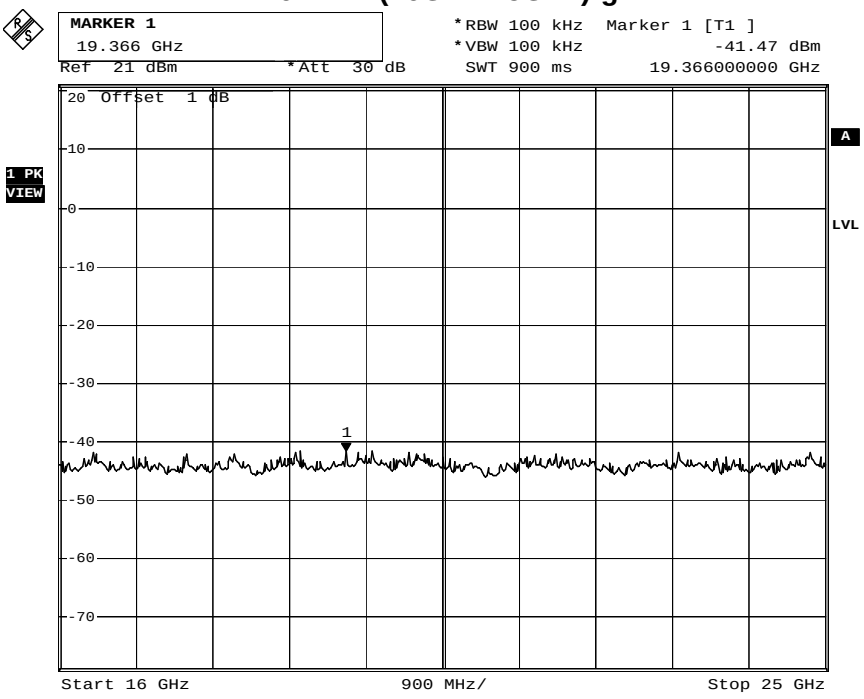
Date: 14.APR.2011 10:19:07

2462MHz (8GHz-16GHz)-g



Date: 14.APR.2011 10:19:42

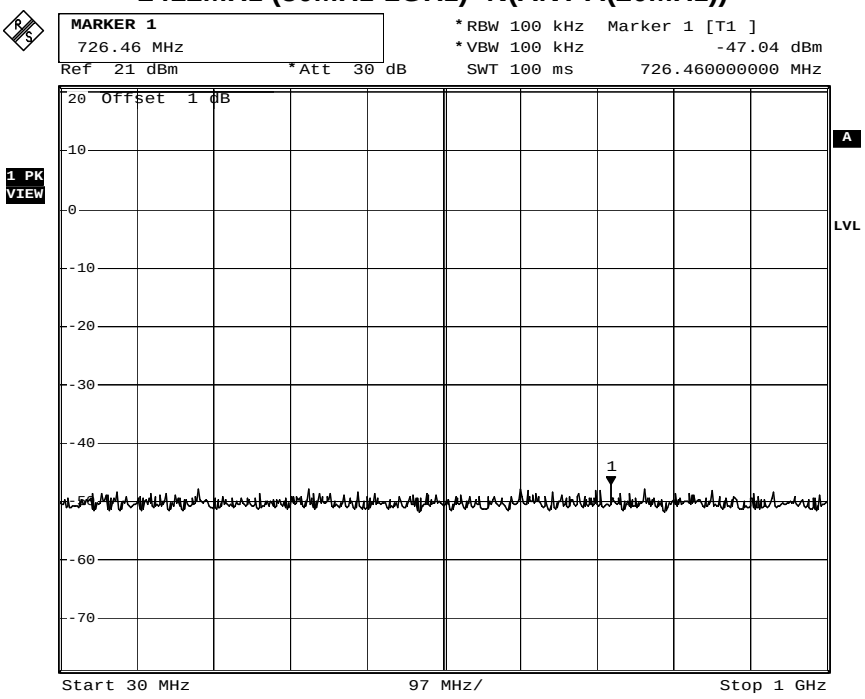
2462MHz (16GHz-25GHz)-g



Date: 14.APR.2011 10:21:13

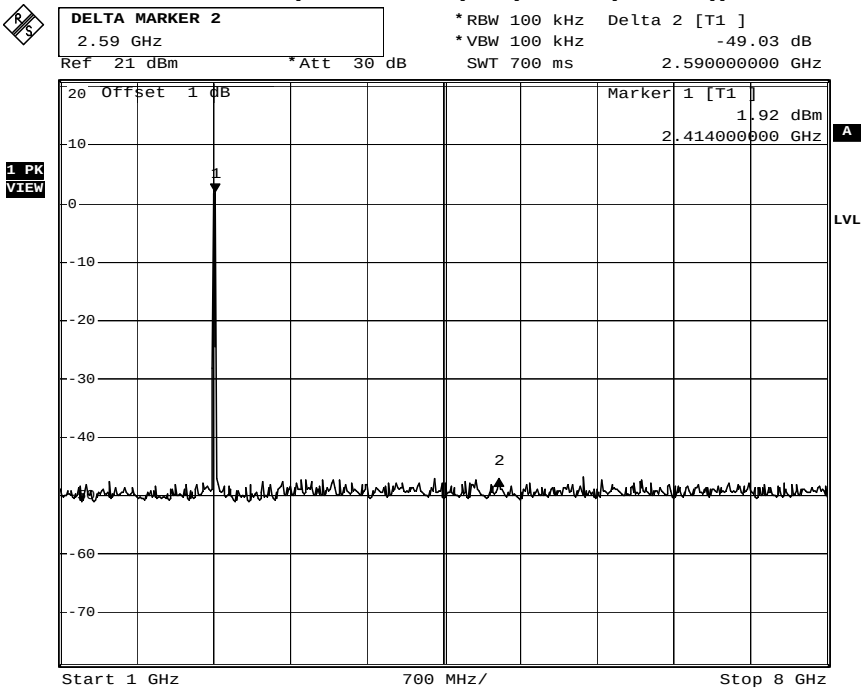
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

2412MHz (30MHz-1GHz) -N(ANT A(20MHz))



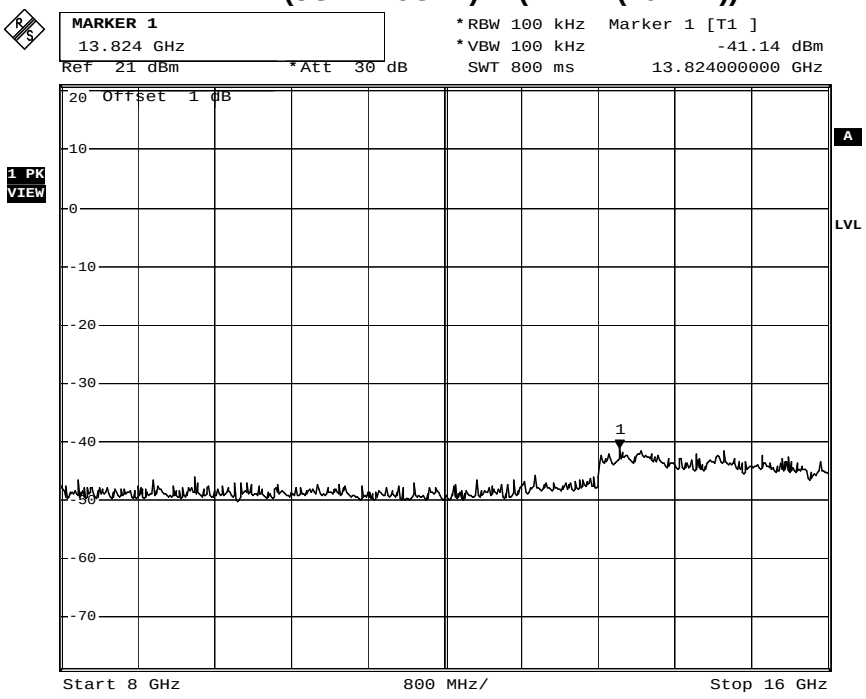
Date: 14.APR.2011 10:30:58

2412MHz (1GHz-8GHz)- N(ANT A(20MHz))



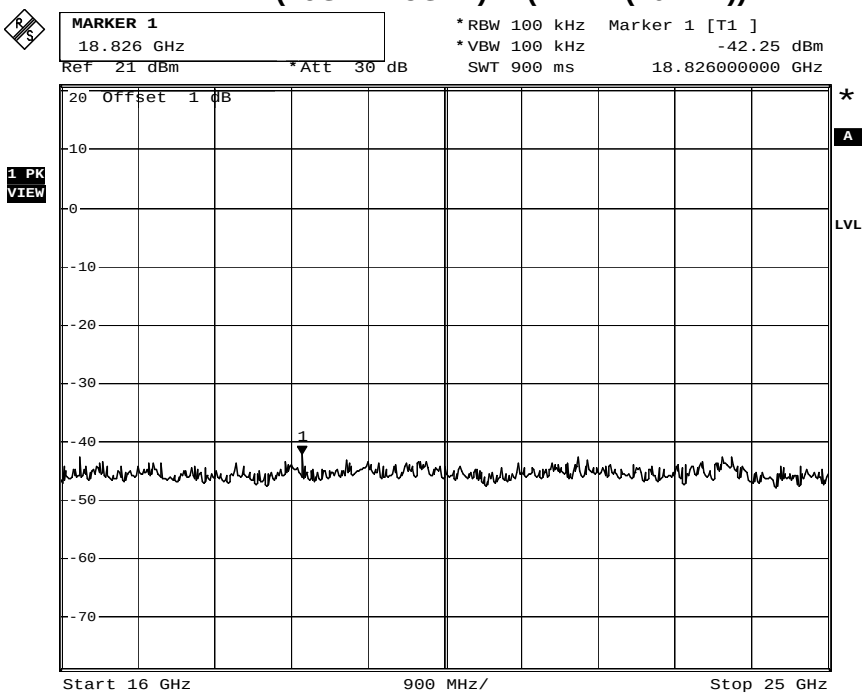
Date: 14.APR.2011 10:31:52

2412MHz (8GHz-16GHz)- N(ANT A(20MHz))



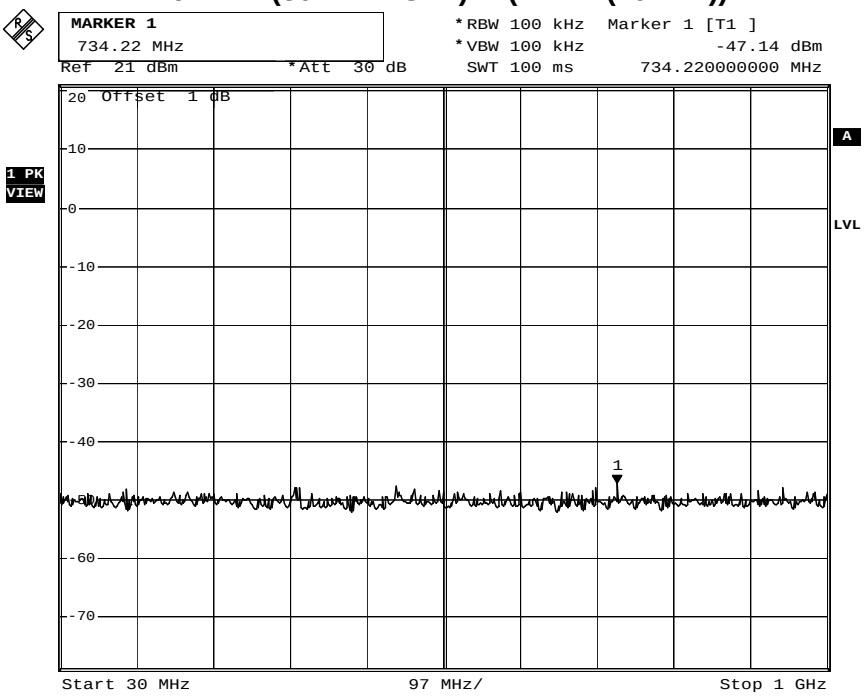
Date: 14.APR.2011 10:32:28

2412MHz (16GHz-25GHz)- N(ANT A(20MHz))



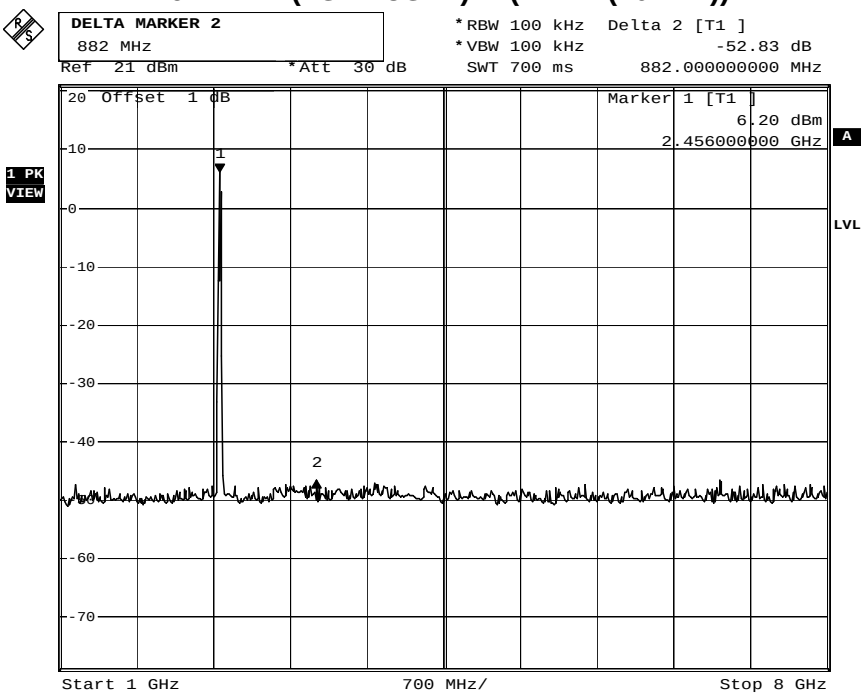
Date: 14.APR.2011 10:33:18

2462MHz (30MHz-1GHz) -N(ANT A(20MHz))



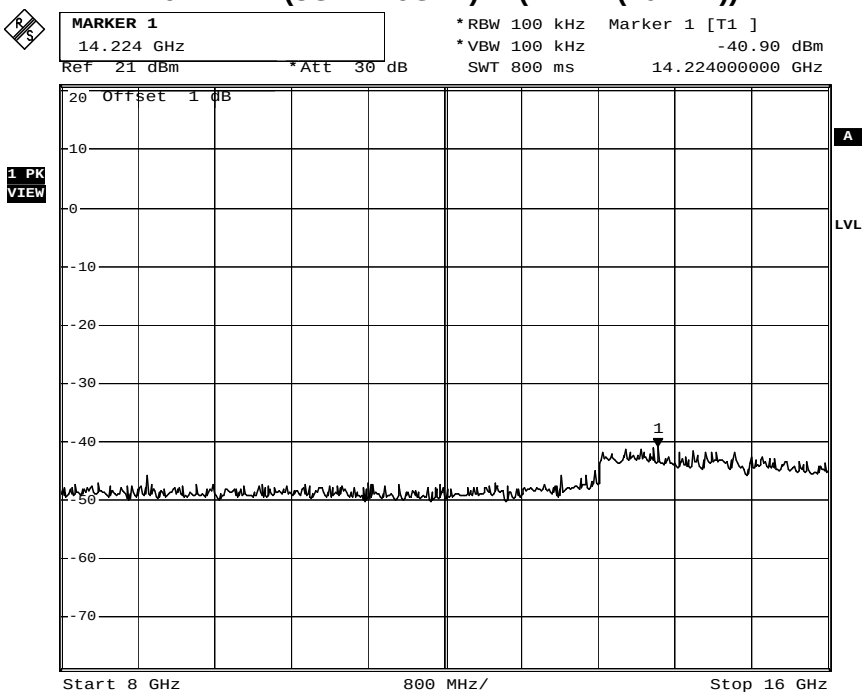
Date: 14.APR.2011 10:34:24

2462MHz (1GHz-8GHz)- N(ANT A(20MHz))



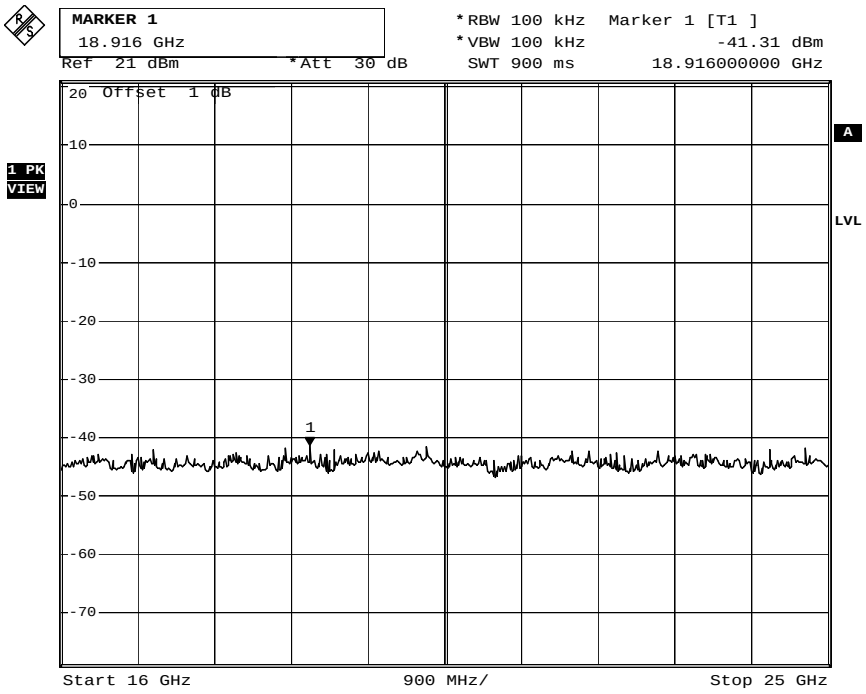
Date: 14.APR.2011 10:35:23

2462MHz (8GHz-16GHz)- N(ANT A(20MHz))



Date: 14.APR.2011 10:35:54

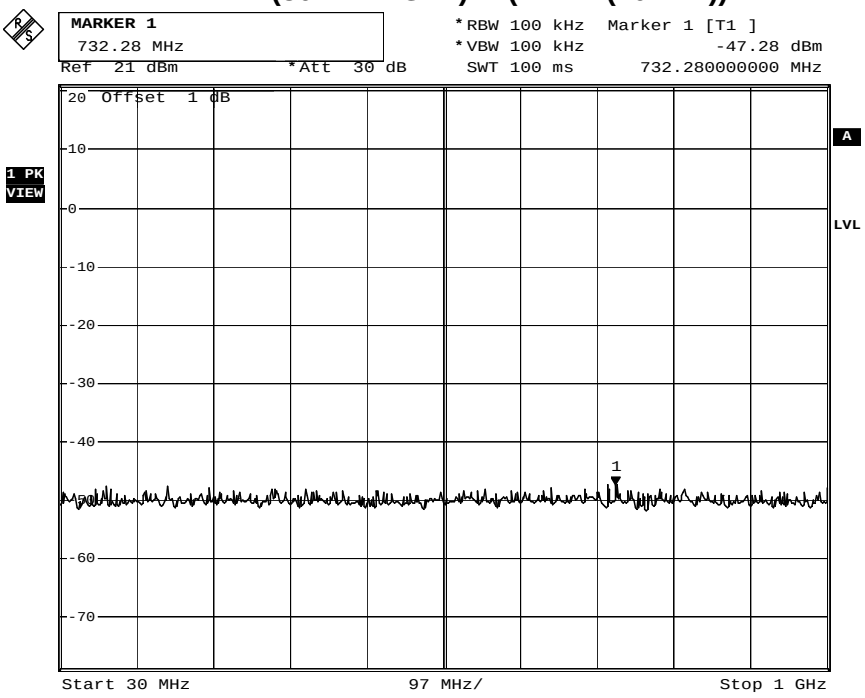
2462MHz (16GHz-25GHz)- N(ANT A(20MHz))



Date: 14.APR.2011 10:37:10

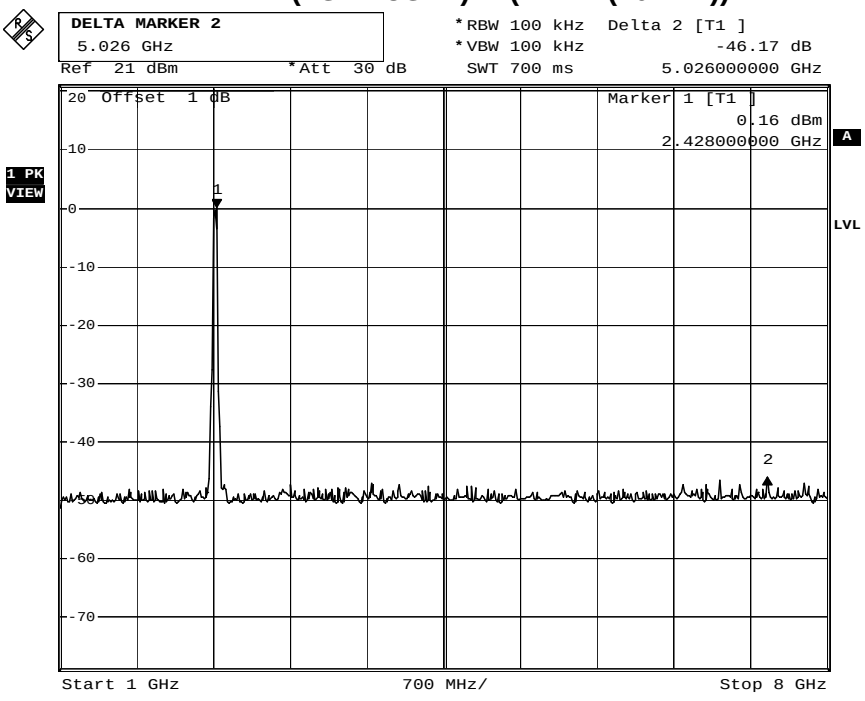
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

2422MHz (30MHz-1GHz) -N(ANT A(40MHz))



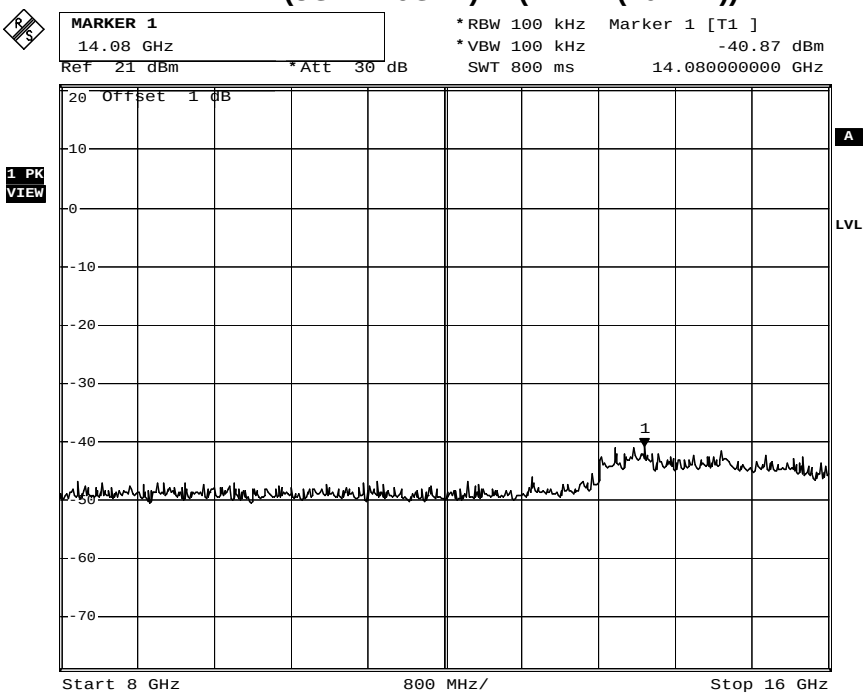
Date: 14.APR.2011 10:39:46

2422MHz (1GHz-8GHz)- N(ANT A(40MHz))



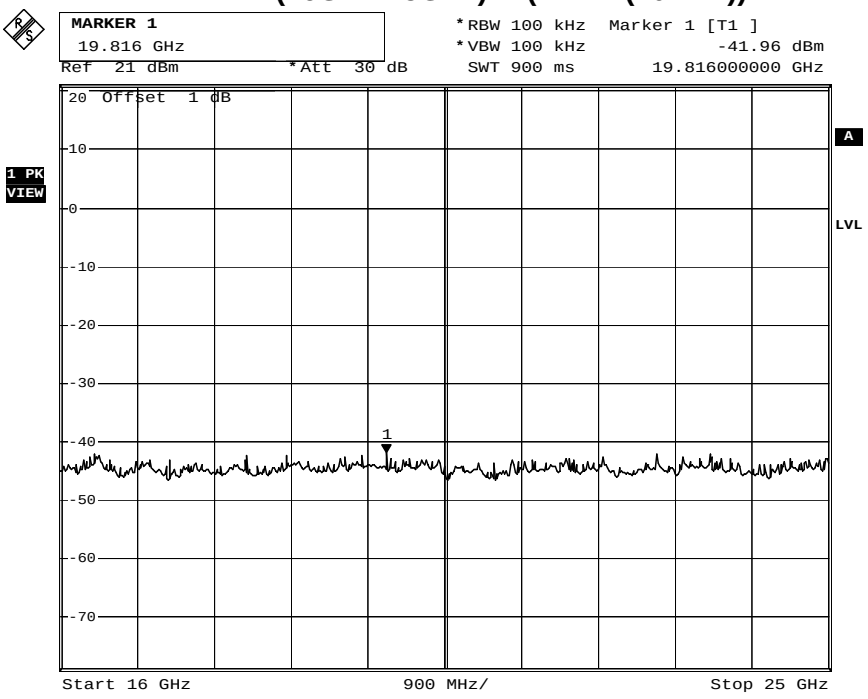
Date: 14.APR.2011 10:41:25

2422MHz (8GHz-16GHz)- N(ANT A(40MHz))



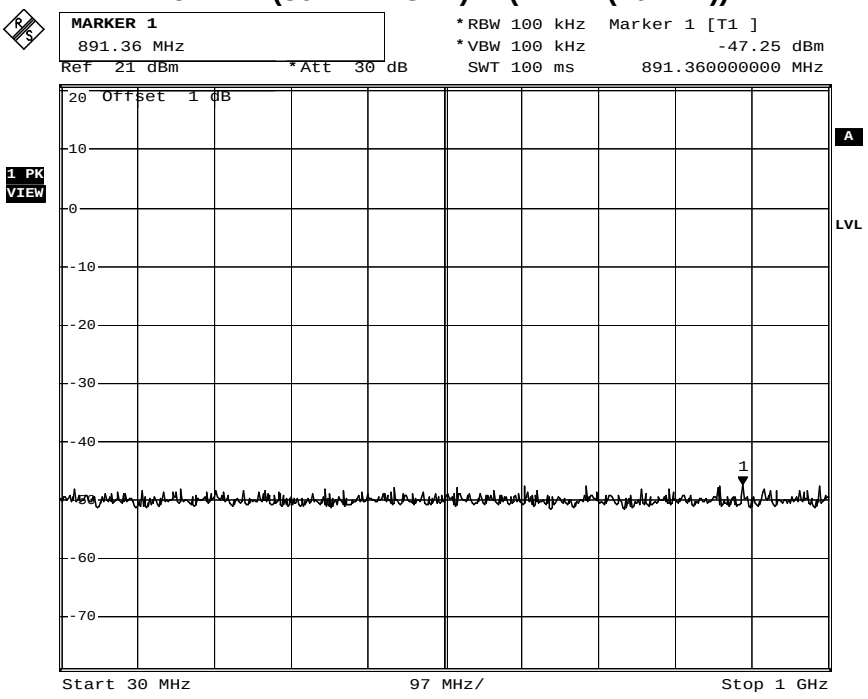
Date: 14.APR.2011 10:42:03

2422MHz (16GHz-25GHz)- N(ANT A(40MHz))



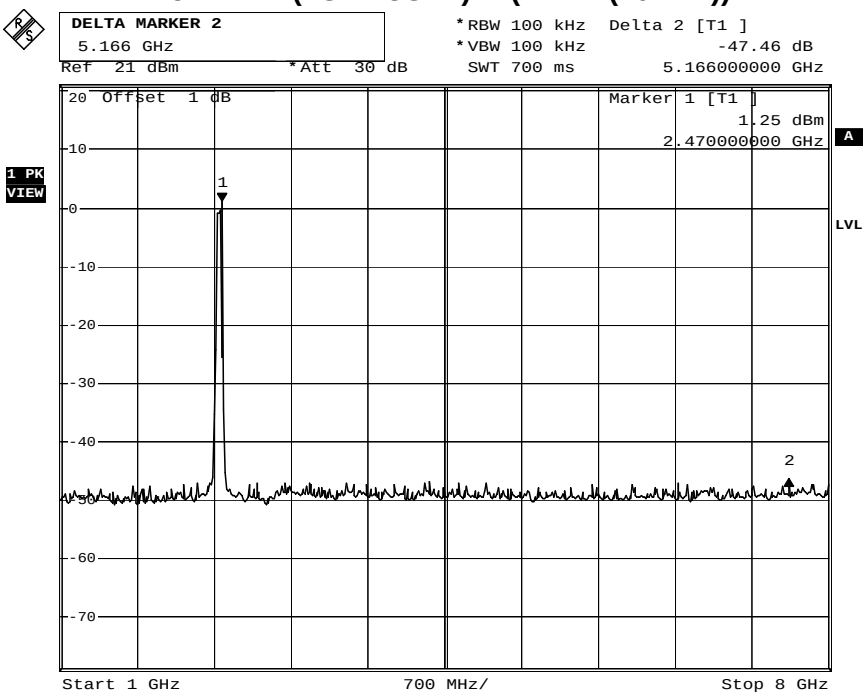
Date: 14.APR.2011 10:42:38

2452MHz (30MHz-1GHz) -N(ANT A(40MHz))



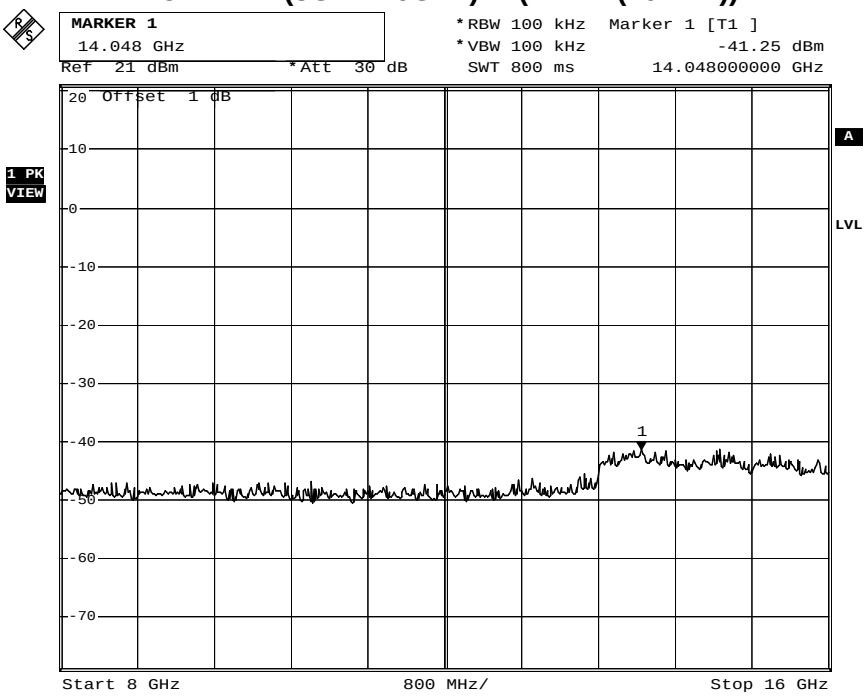
Date: 14.APR.2011 10:48:23

2452MHz (1GHz-8GHz)- N(ANT A(40MHz))



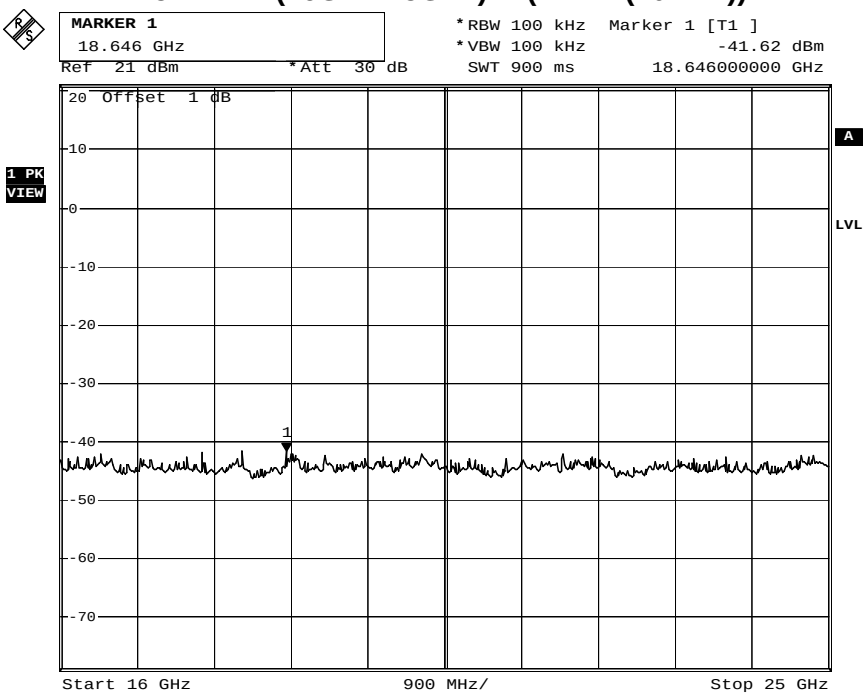
Date: 14.APR.2011 10:49:10

2452MHz (8GHz-16GHz)- N(ANT A(40MHz))



Date: 14.APR.2011 10:49:41

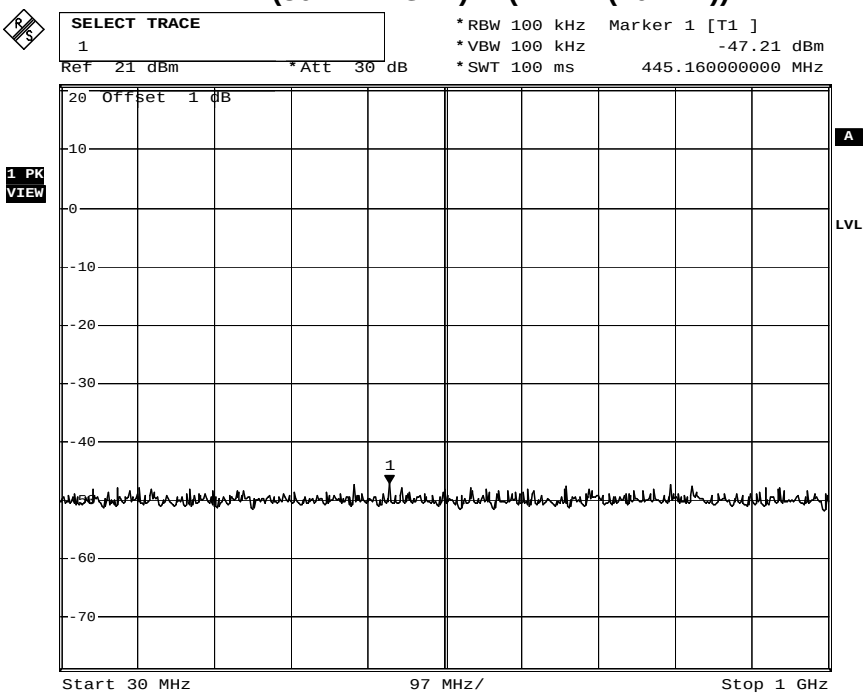
2452MHz (16GHz-25GHz)- N(ANT A(40MHz))



Date: 14.APR.2011 10:50:11

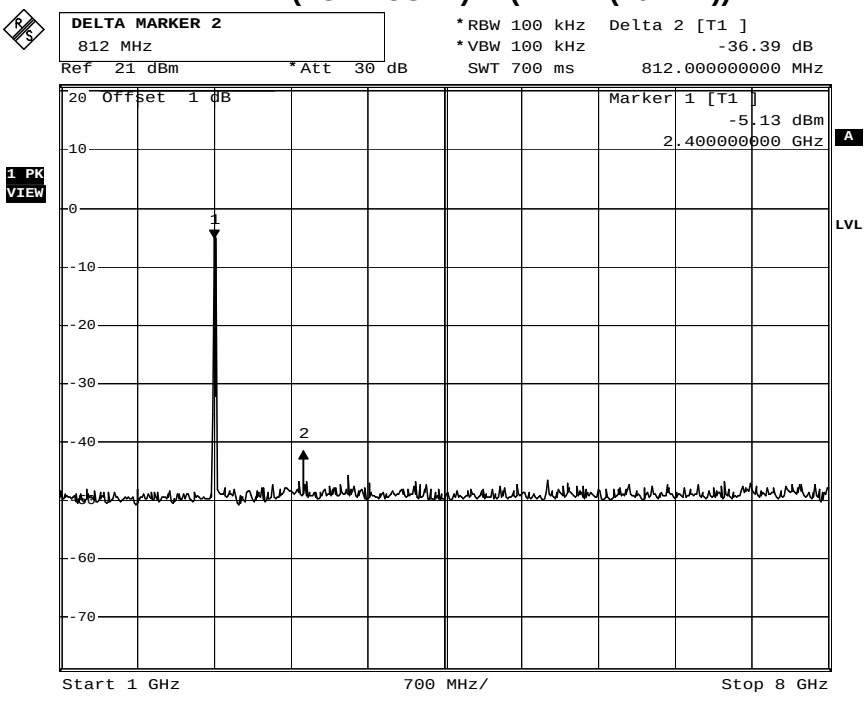
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

2412MHz (30MHz-1GHz) -N(ANT B(20MHz))



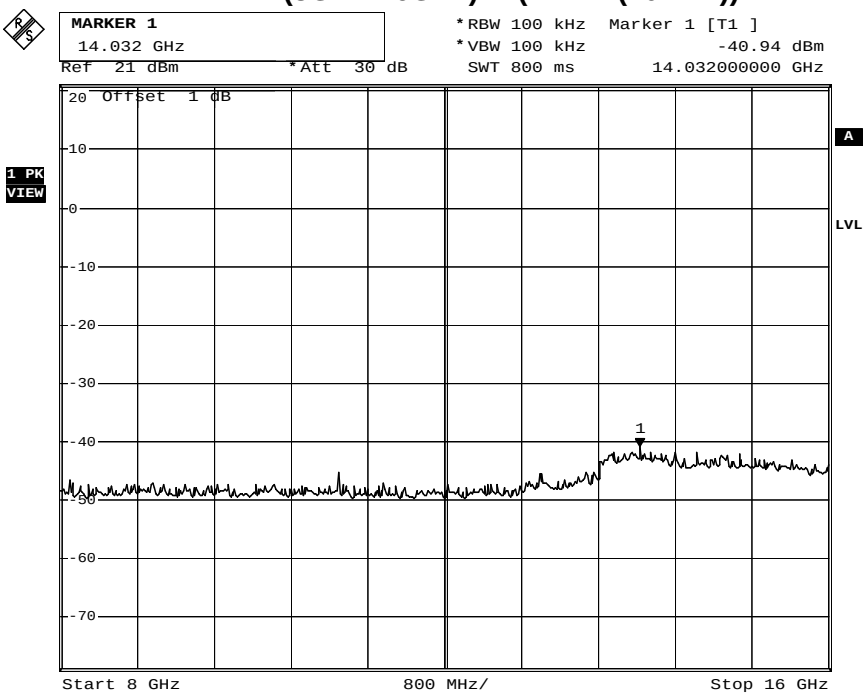
Date: 18.APR.2011 13:30:25

2412MHz (1GHz-8GHz)- N(ANT B(20MHz))



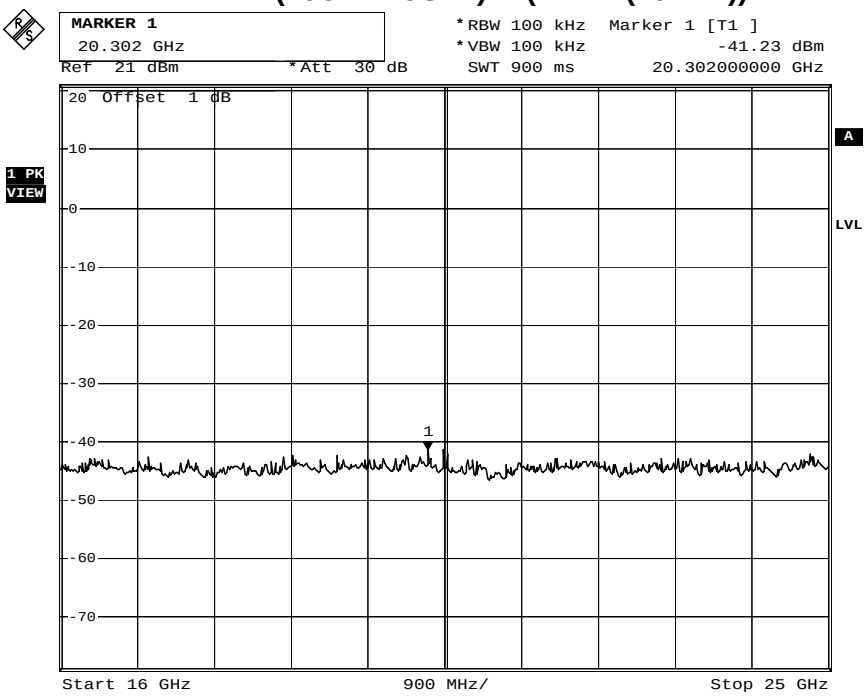
Date: 18.APR.2011 13:31:49

2412MHz (8GHz-16GHz)- N(ANT B(20MHz))



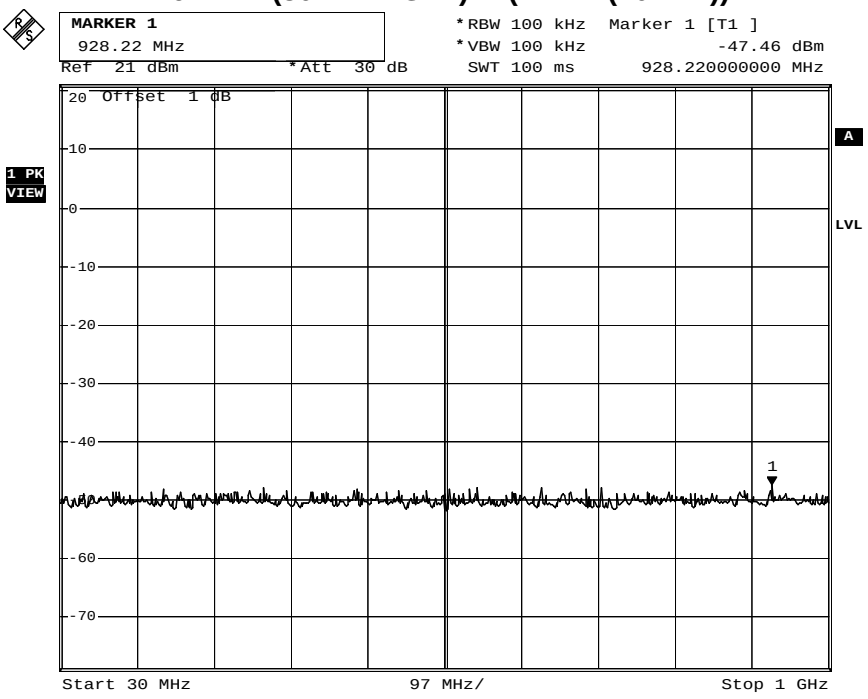
Date: 18.APR.2011 13:32:57

2412MHz (16GHz-25GHz)- N(ANT B(20MHz))



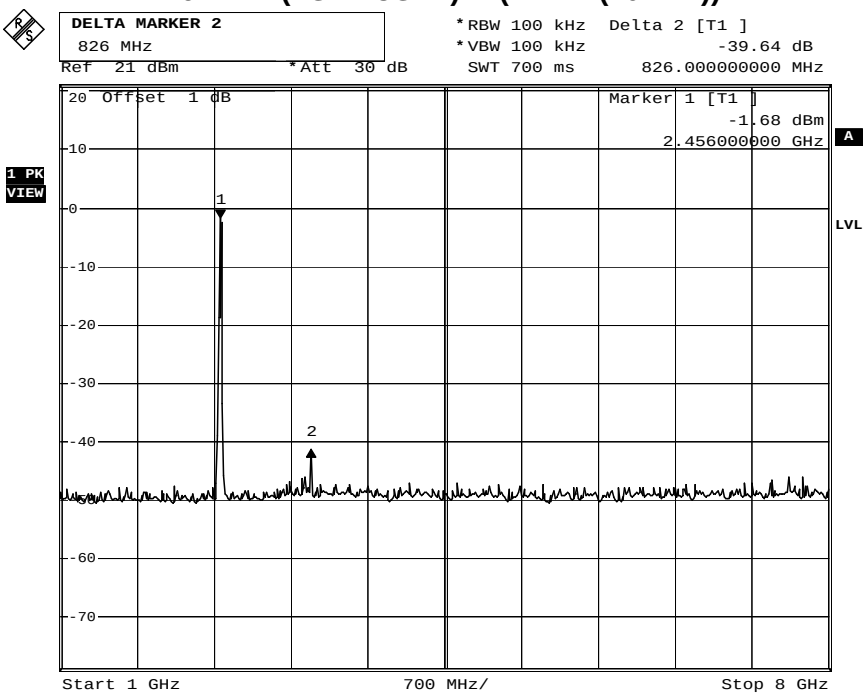
Date: 18.APR.2011 13:35:00

2462MHz (30MHz-1GHz) -N(ANT B(20MHz))



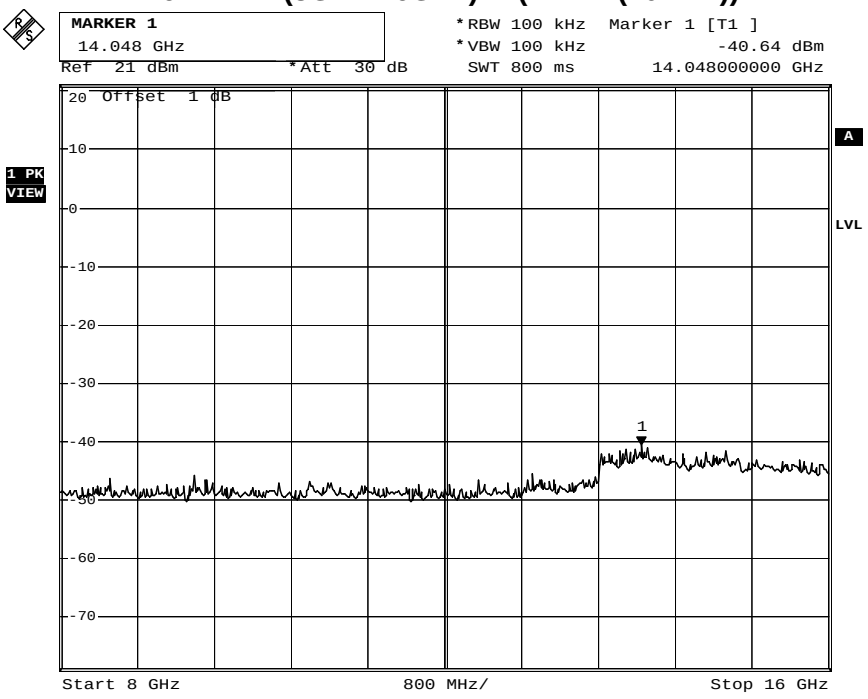
Date: 18.APR.2011 13:42:33

2462MHz (1GHz-8GHz)- N(ANT B(20MHz))



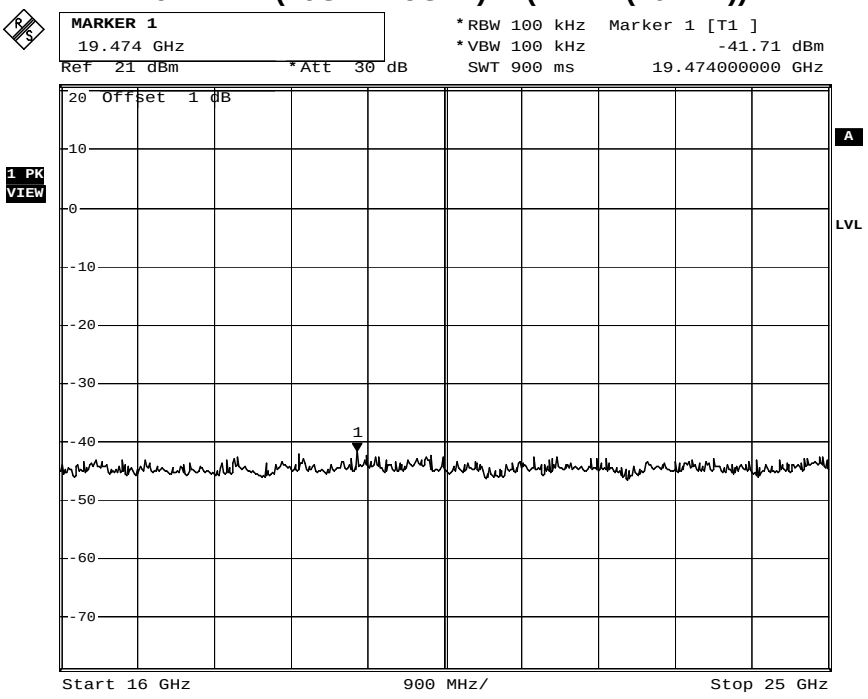
Date: 18.APR.2011 13:43:15

2462MHz (8GHz-16GHz)- N(ANT B(20MHz))



Date: 18.APR.2011 13:43:47

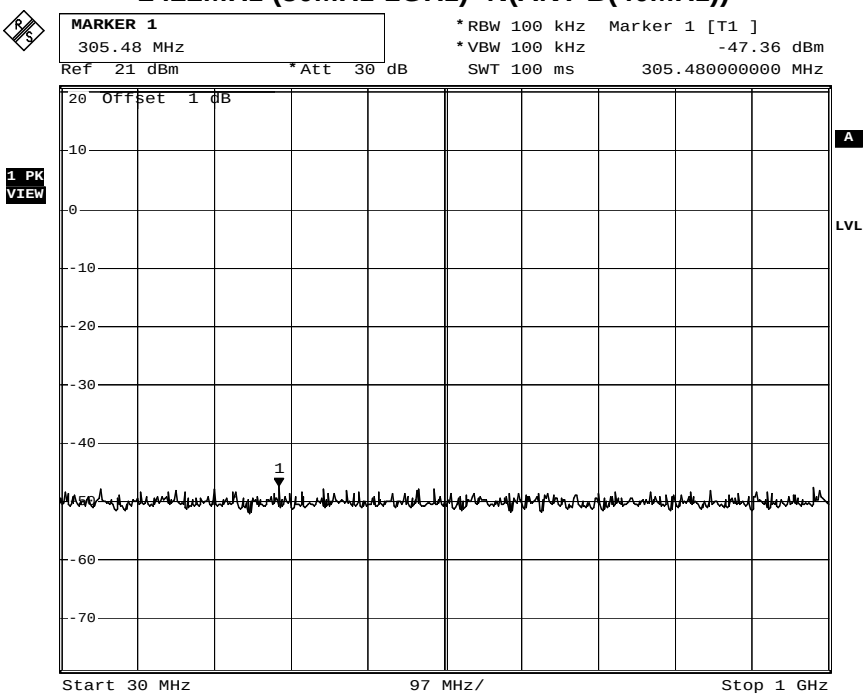
2462MHz (16GHz-25GHz)- N(ANT B(20MHz))



Date: 18.APR.2011 13:44:13

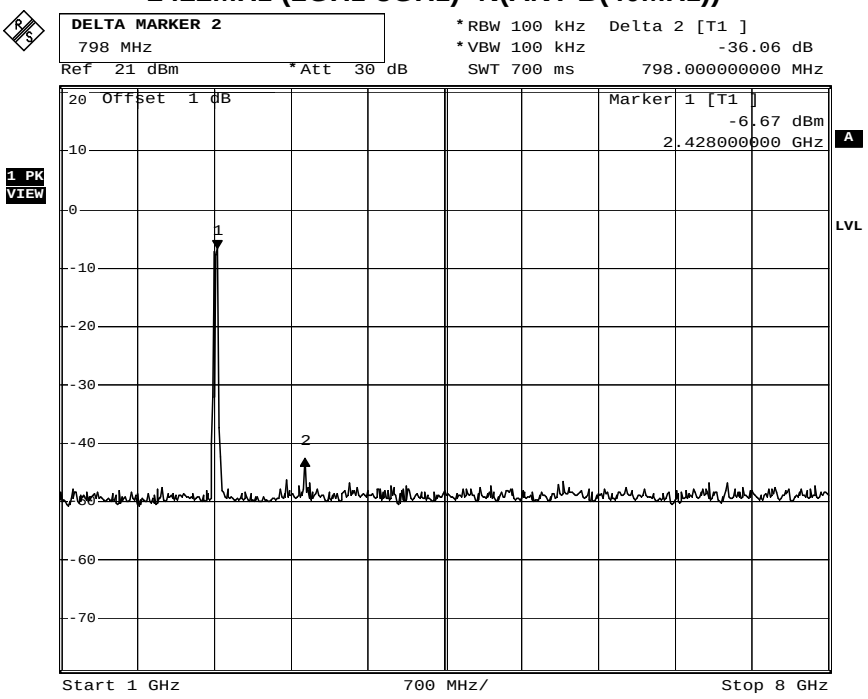
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

2422MHz (30MHz-1GHz) -N(ANT B(40MHz))



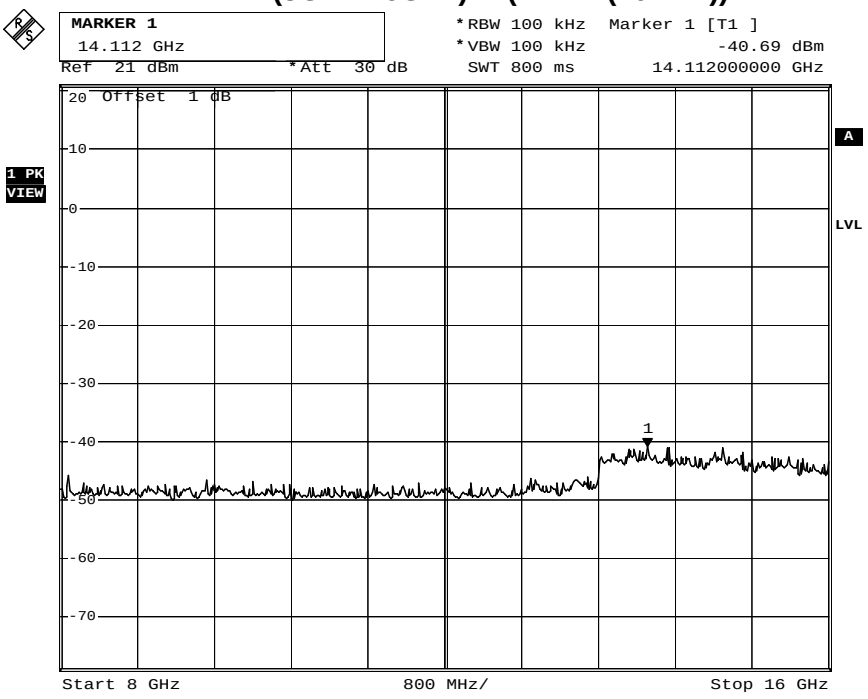
Date: 18.APR.2011 13:45:47

2422MHz (1GHz-8GHz)- N(ANT B(40MHz))



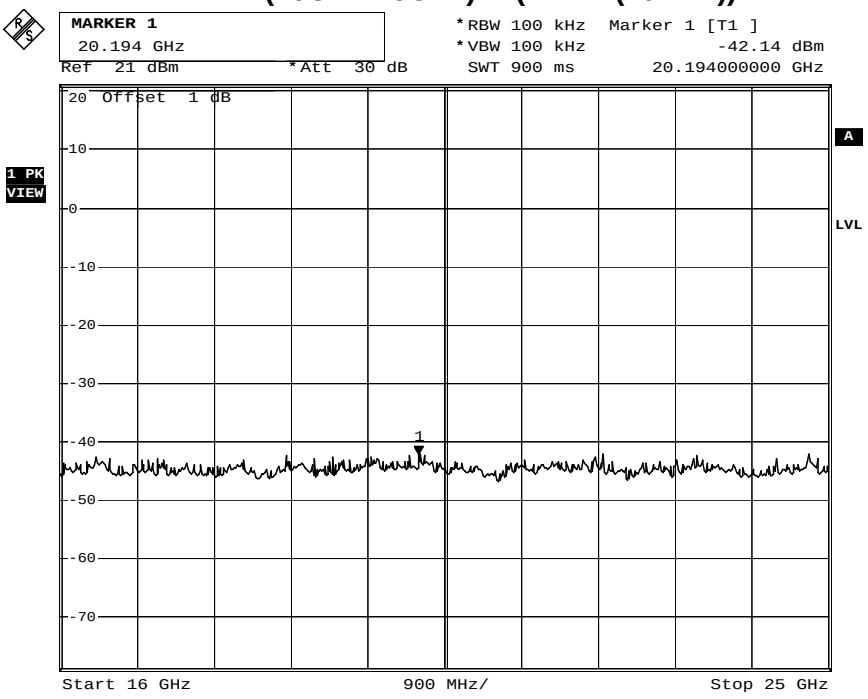
Date: 18.APR.2011 13:46:39

2422MHz (8GHz-16GHz)- N(ANT B(40MHz))



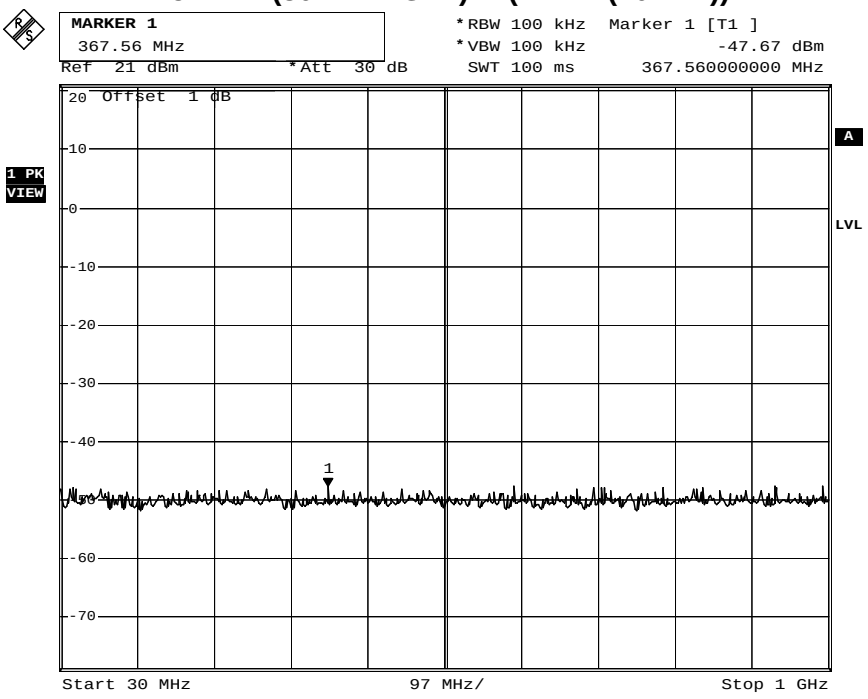
Date: 18.APR.2011 13:47:35

2422MHz (16GHz-25GHz)- N(ANT B(40MHz))



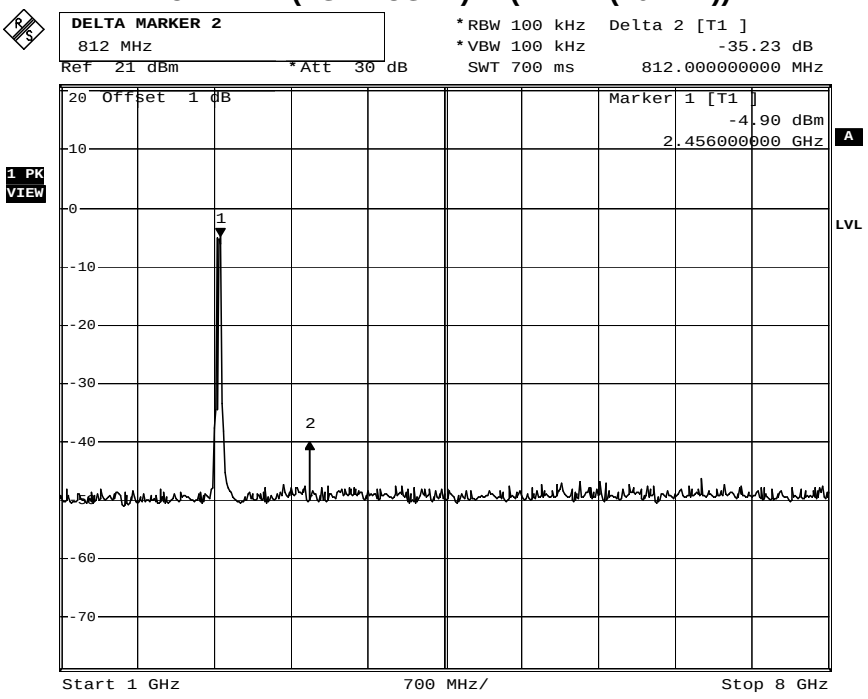
Date: 18.APR.2011 13:48:04

2452MHz (30MHz-1GHz) -N(ANT B(40MHz))



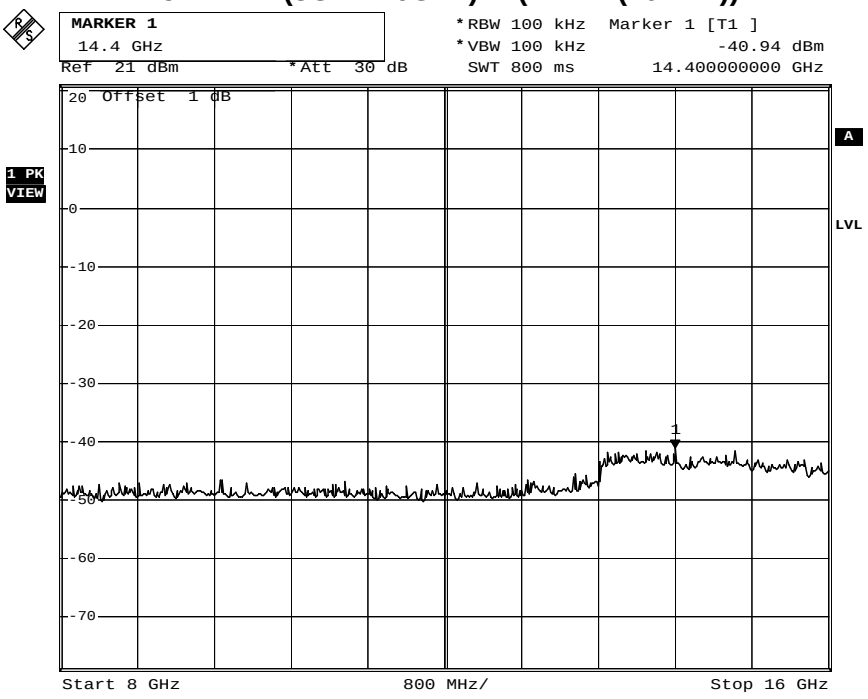
Date: 18.APR.2011 13:49:47

2452MHz (1GHz-8GHz)- N(ANT B(40MHz))



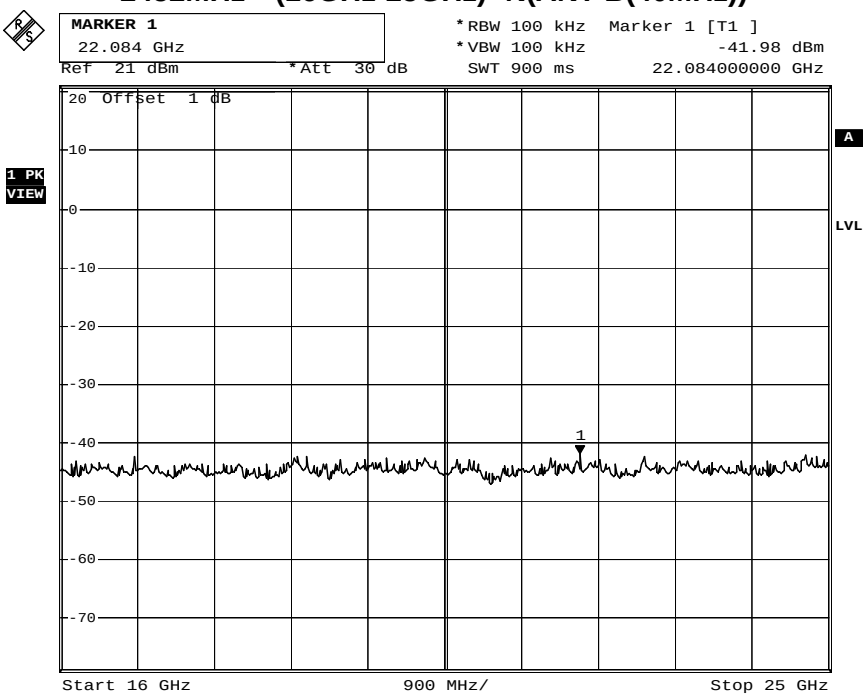
Date: 18.APR.2011 13:50:33

2452MHz (8GHz-16GHz)- N(ANT B(40MHz))



Date: 18.APR.2011 13:51:00

2452MHz (16GHz-25GHz)- N(ANT B(40MHz))



Date: 18.APR.2011 13:51:27

6. Radiated Emission Band Edge

6.1. Test Equipment

The following test equipments are used during the test:

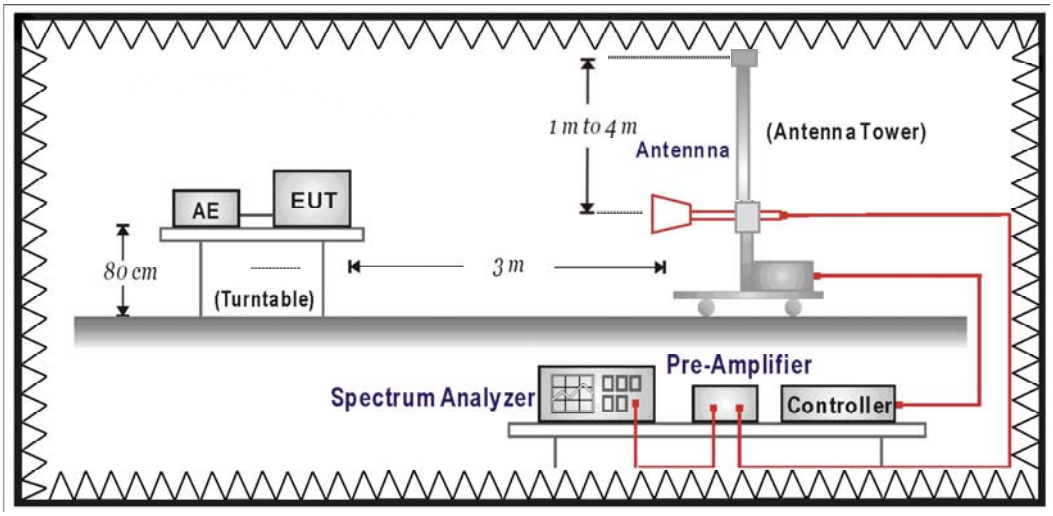
Band Edge / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Horn Antenna	Schwarzback	BBHA 9120D	743	2012/03/14
Spectrum Analyzer	Agilent	E4440A	MY46187335	2012/01/14
Coaxial Cable	Huber+Suhner AG	Sucoflex 102	25623/2	2012/04/07

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

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: 2009 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.
The EUT and its simulators are placed on a turn table which is 0.8 meter above ground.
The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated measurement.

6.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2010

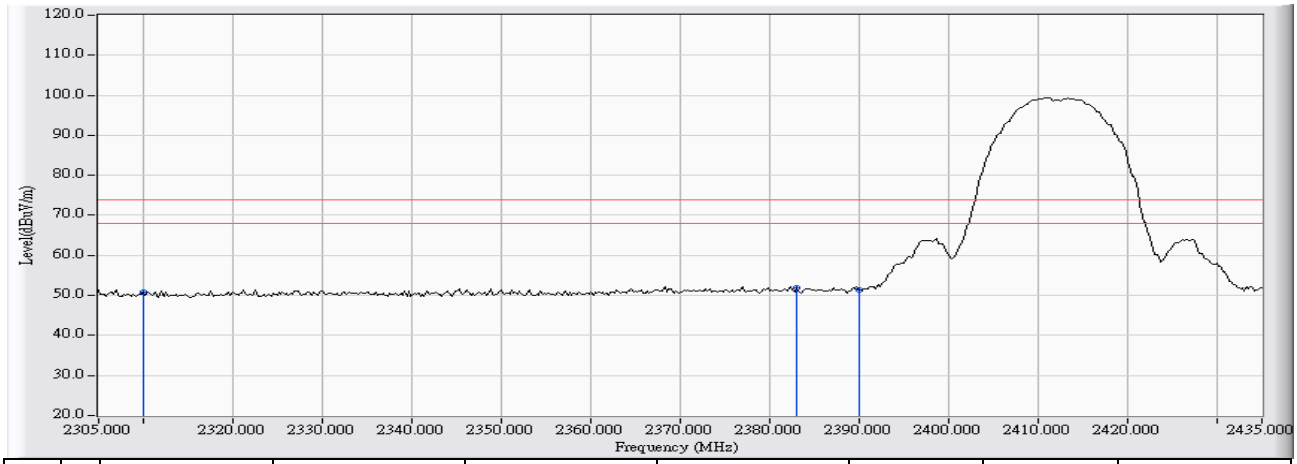
6.6. Uncertainty

The measurement uncertainty
± 3.9 dB above 1GHz

6.7. Test Result

Radiated is defined as

Site : CB1	Time : 2011/03/31 - 14:43
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2412_802.11b

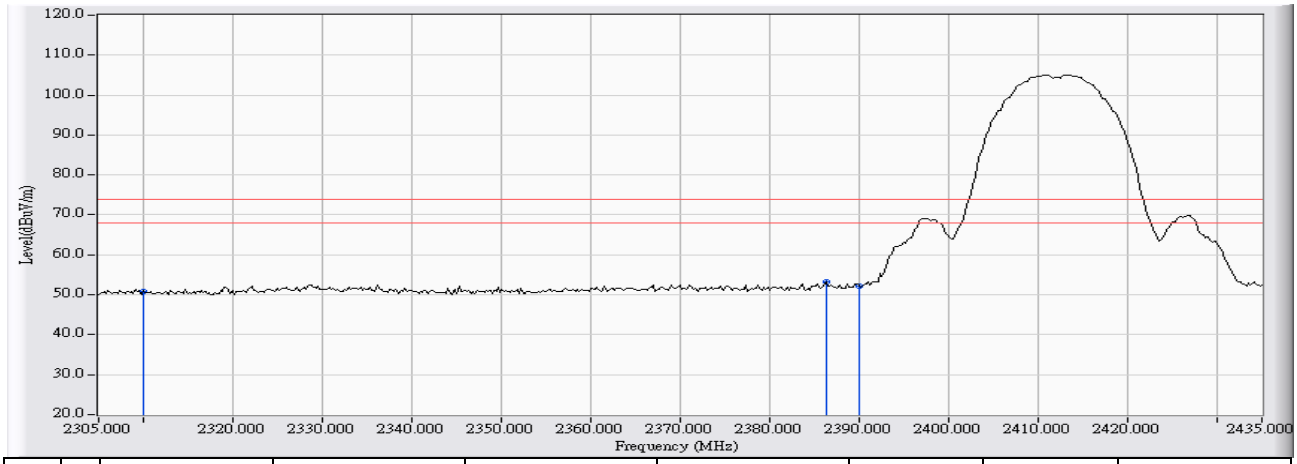


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	25.682	25.041	50.723	-23.277	74.000	PEAK
2	*	2383.000	25.953	25.949	51.901	-22.099	74.000	PEAK
3		2390.000	25.978	25.416	51.394	-22.606	74.000	PEAK

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 : CB1	Time : 2011/03/31 - 14:47
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2412_802.11b

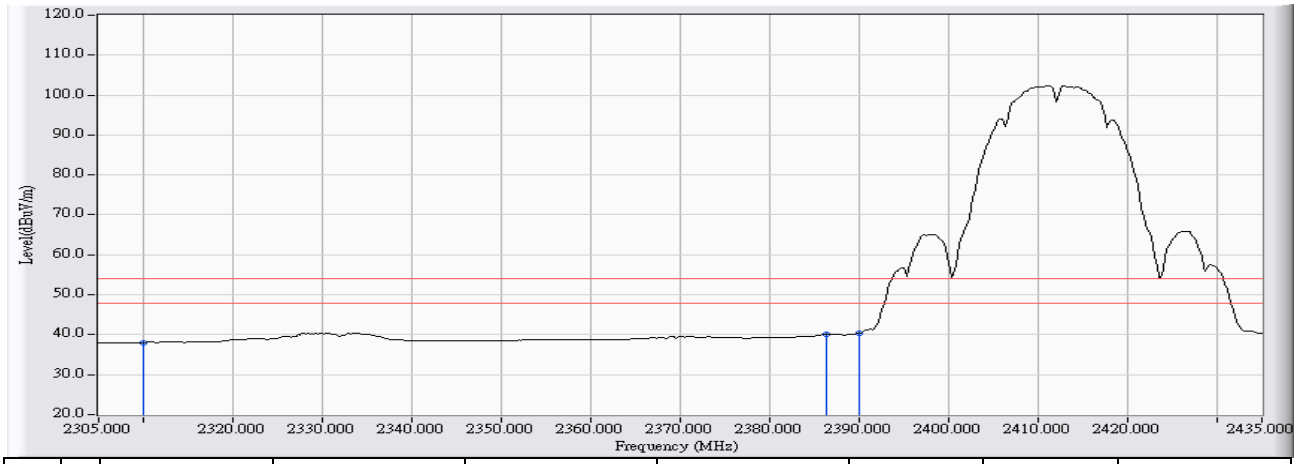


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	25.682	25.273	50.955	-23.045	74.000	PEAK
2	*	2386.250	25.964	27.175	53.139	-20.861	74.000	PEAK
3		2390.000	25.978	26.296	52.274	-21.726	74.000	PEAK

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 : CB1	Time : 2011/03/31 - 14:48
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2412_802.11b

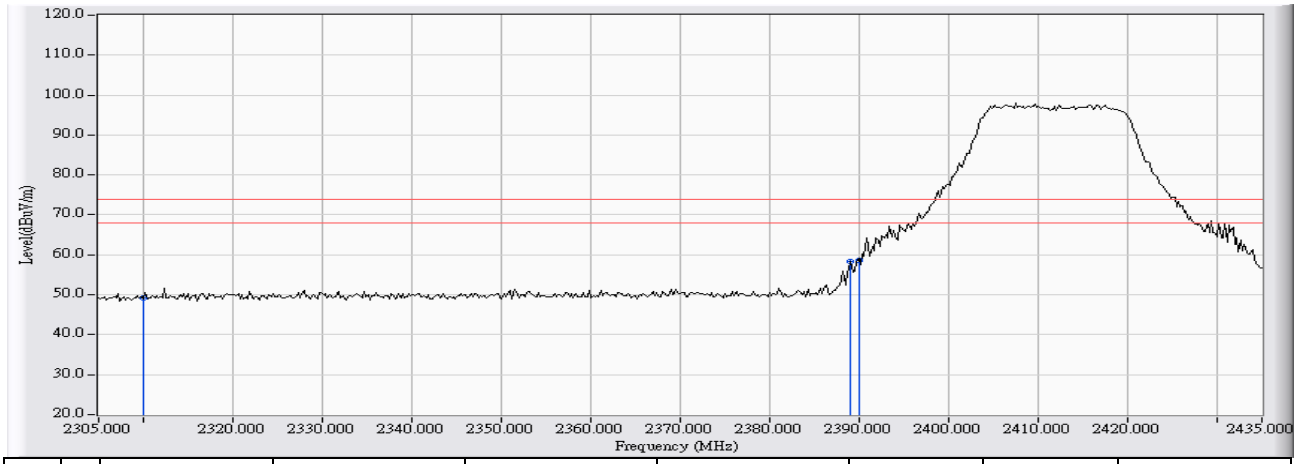


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	25.682	12.391	38.073	-15.927	54.000	AVERAGE
2		2386.250	25.964	14.153	40.117	-13.883	54.000	AVERAGE
3	*	2390.000	25.978	14.409	40.387	-13.613	54.000	AVERAGE

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 : CB1	Time : 2011/03/31 - 15:18
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2412_802.11g

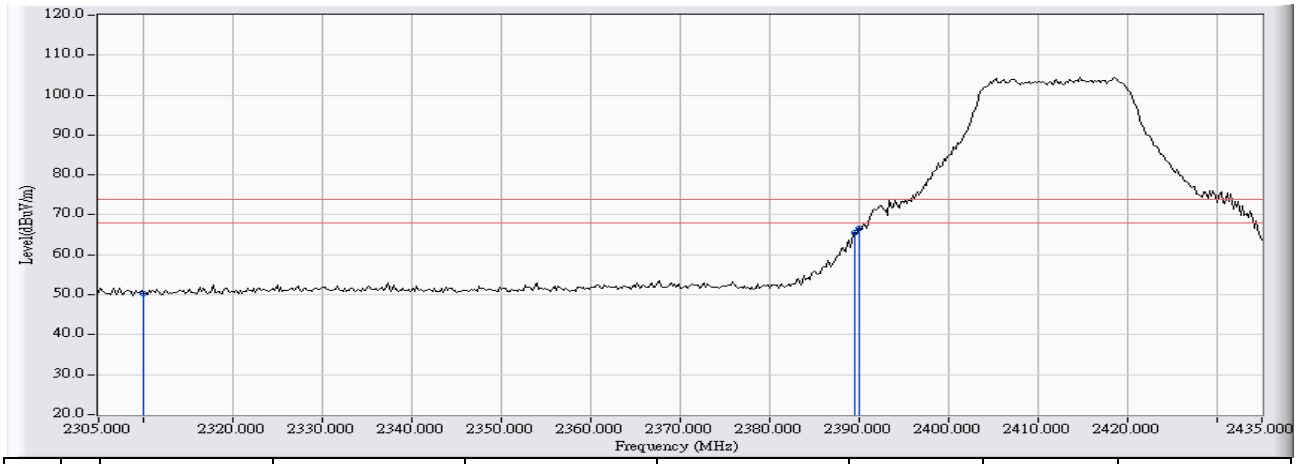


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	25.682	23.447	49.129	-24.871	74.000	PEAK
2		2389.067	25.975	32.337	58.312	-15.688	74.000	PEAK
3	*	2390.000	25.978	32.646	58.624	-15.376	74.000	PEAK

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 : CB1	Time : 2011/03/31 - 15:21
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2412_802.11g

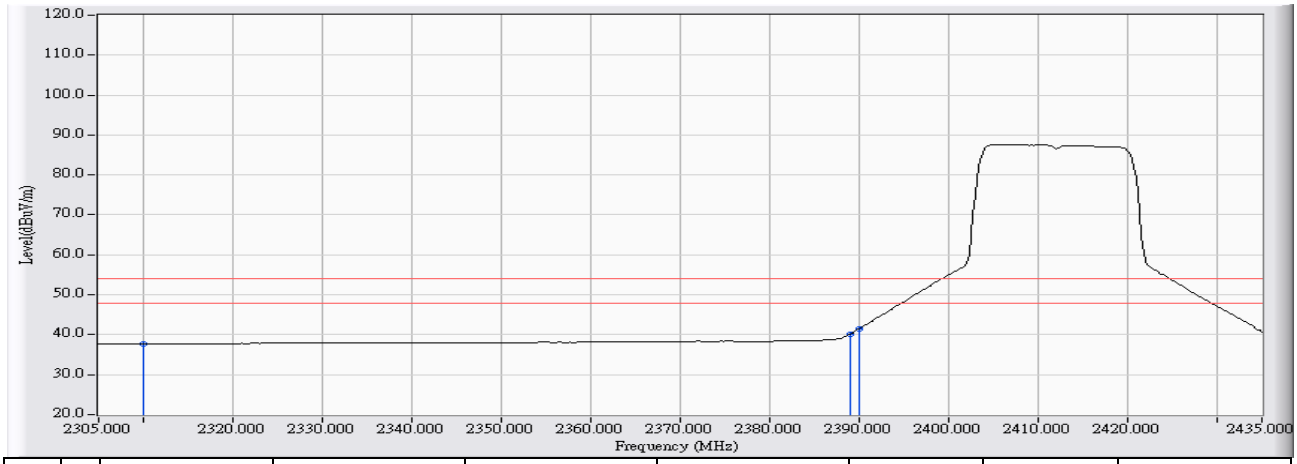


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	25.682	24.708	50.390	-23.610	74.000	PEAK
2		2389.500	25.976	39.555	65.532	-8.468	74.000	PEAK
3	*	2390.000	25.978	40.733	66.711	-7.289	74.000	PEAK

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 : CB1	Time : 2011/03/31 - 15:19
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2412_802.11g

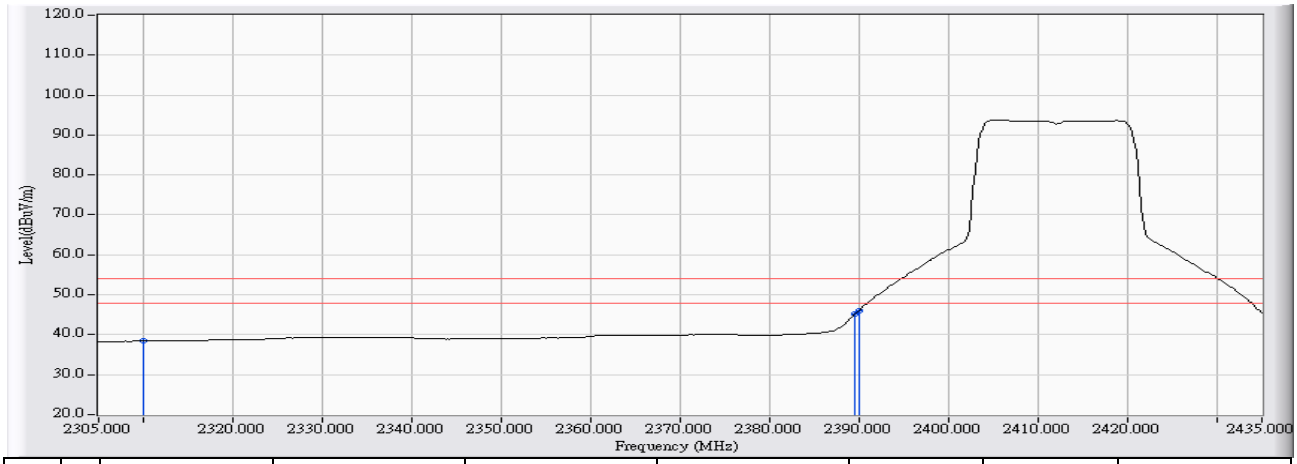


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	25.682	11.988	37.670	-16.330	54.000	AVERAGE
2		2389.067	25.975	14.239	40.214	-13.786	54.000	AVERAGE
3	*	2390.000	25.978	15.450	41.428	-12.572	54.000	AVERAGE

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 : CB1	Time : 2011/03/31 - 15:22
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2412_802.11g

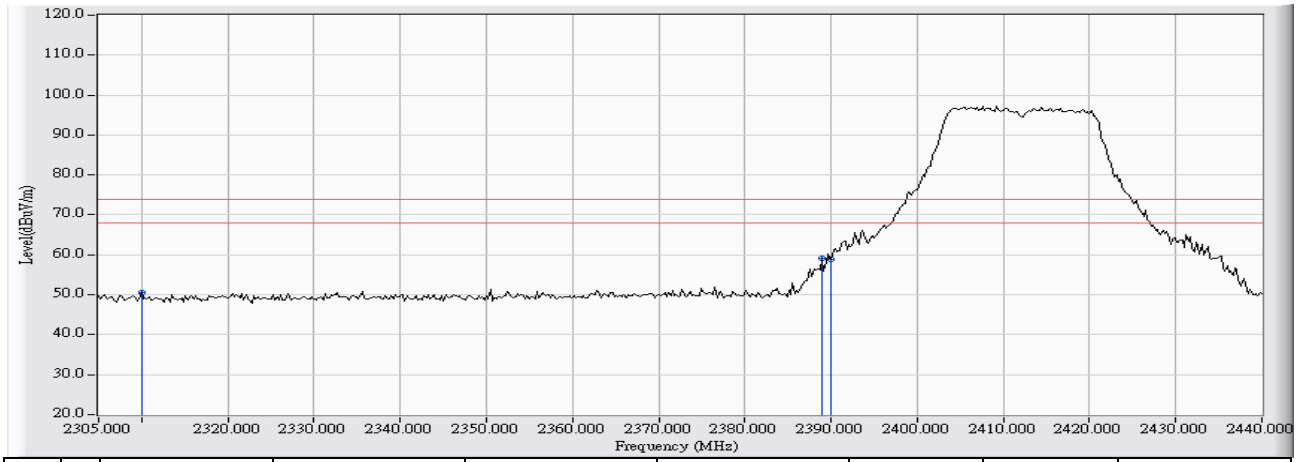


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	25.682	12.713	38.395	-15.605	54.000	AVERAGE
2		2389.500	25.976	19.122	45.099	-8.901	54.000	AVERAGE
3	*	2390.000	25.978	20.102	46.080	-7.920	54.000	AVERAGE

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 : CB1	Time : 2011/04/13 - 18:57
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2412_802.11n(20M)

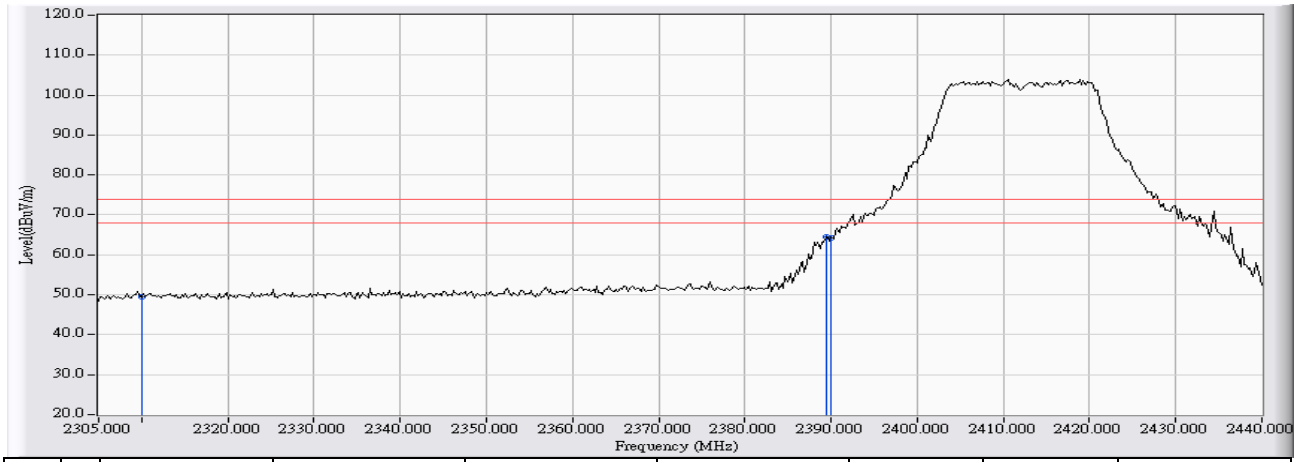


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	25.682	24.759	50.441	-23.559	74.000	PEAK
2	*	2388.925	25.975	33.136	59.110	-14.890	74.000	PEAK
3		2390.000	25.978	32.964	58.942	-15.058	74.000	PEAK

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 : CB1	Time : 2011/04/13 - 19:02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2412_802.11n(20M)

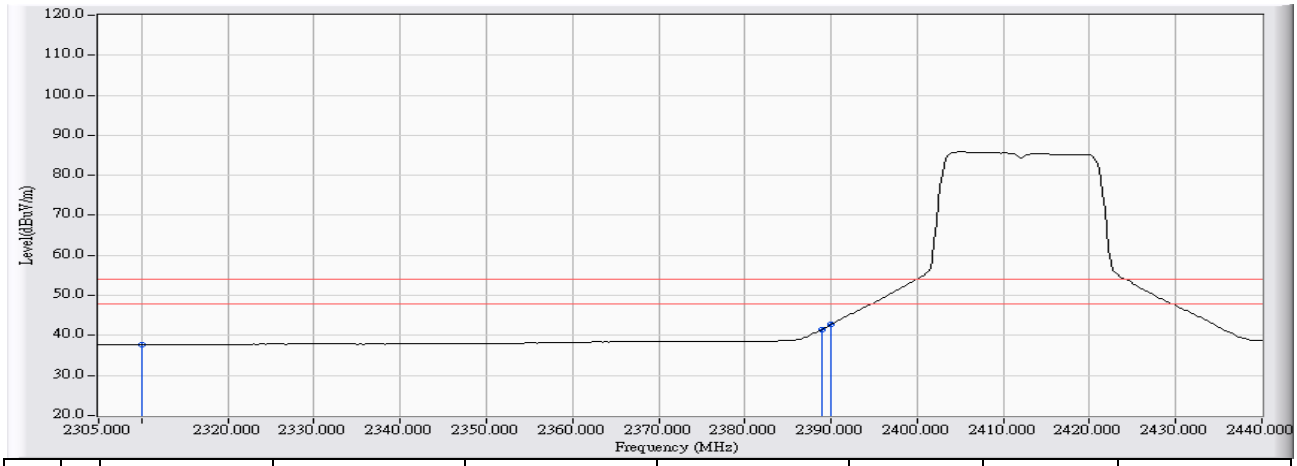


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	25.682	23.831	49.513	-24.487	74.000	PEAK
2	*	2389.375	25.976	38.554	64.530	-9.470	74.000	PEAK
3		2390.000	25.978	38.327	64.305	-9.695	74.000	PEAK

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 : CB1	Time : 2011/04/13 - 18:57
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2412_802.11n(20M)

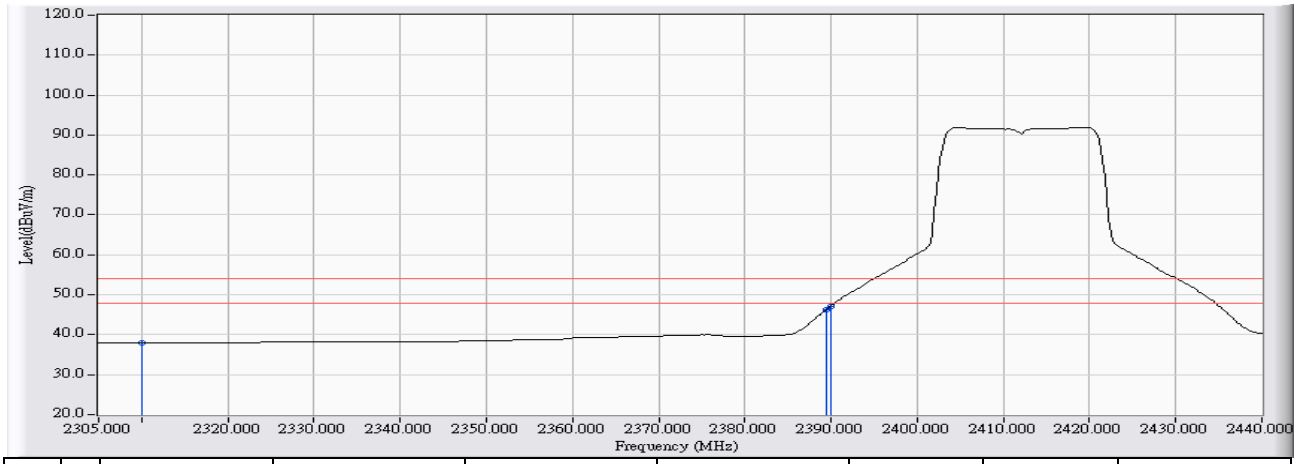


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	25.682	12.010	37.692	-16.308	54.000	AVERAGE
2		2388.925	25.975	15.537	41.511	-12.489	54.000	AVERAGE
3	*	2390.000	25.978	16.755	42.733	-11.267	54.000	AVERAGE

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 : CB1	Time : 2011/04/13 - 19:03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2412_802.11n(20M)

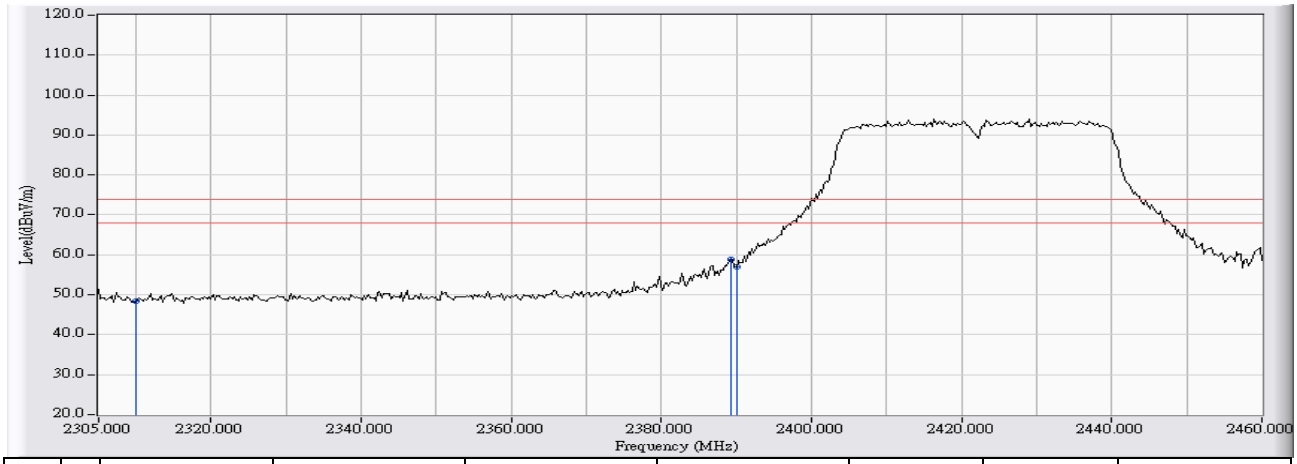


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	25.682	12.252	37.934	-16.066	54.000	AVERAGE
2		2389.375	25.976	20.217	46.193	-7.807	54.000	AVERAGE
3	*	2390.000	25.978	21.209	47.187	-6.813	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 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 : CB1	Time : 2011/04/13 - 18:37
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2422_802.11n(40M)

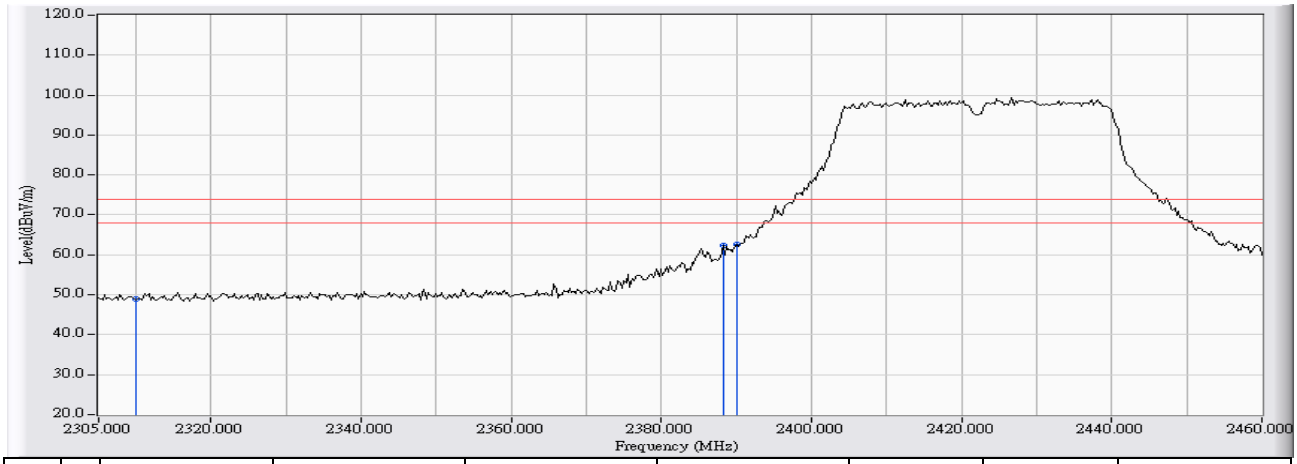


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	25.682	22.644	48.326	-25.674	74.000	PEAK
2	*	2389.217	25.975	32.875	58.850	-15.150	74.000	PEAK
3		2390.000	25.978	30.932	56.910	-17.090	74.000	PEAK

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 : CB1	Time : 2011/04/13 - 18:42
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2422_802.11n(40M)

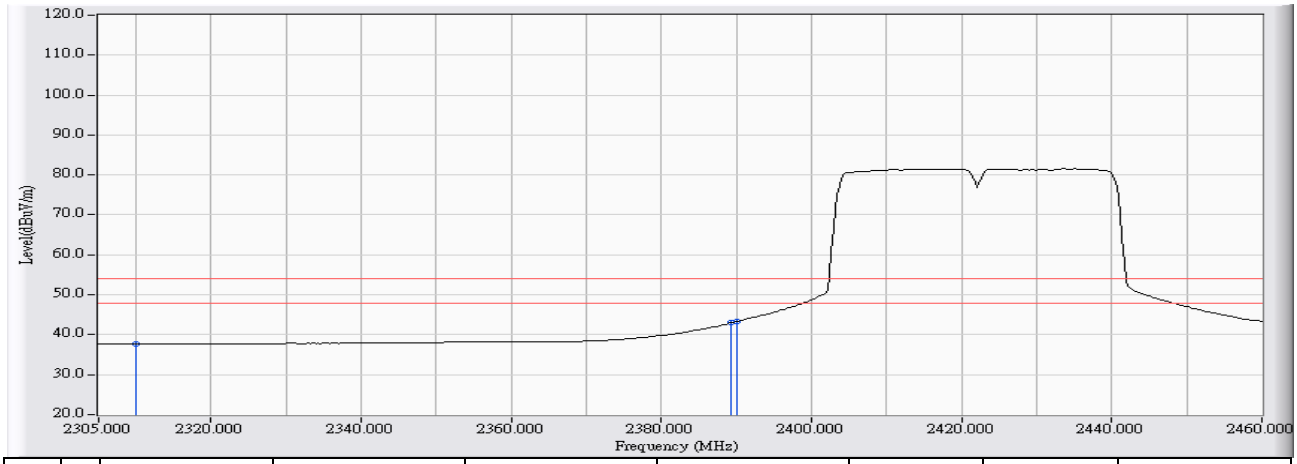


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	25.682	23.180	48.862	-25.138	74.000	PEAK
2		2388.183	25.971	36.256	62.228	-11.772	74.000	PEAK
3	*	2390.000	25.978	36.642	62.620	-11.380	74.000	PEAK

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 : CB1	Time : 2011/04/13 - 18:38
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2422_802.11n(40M)

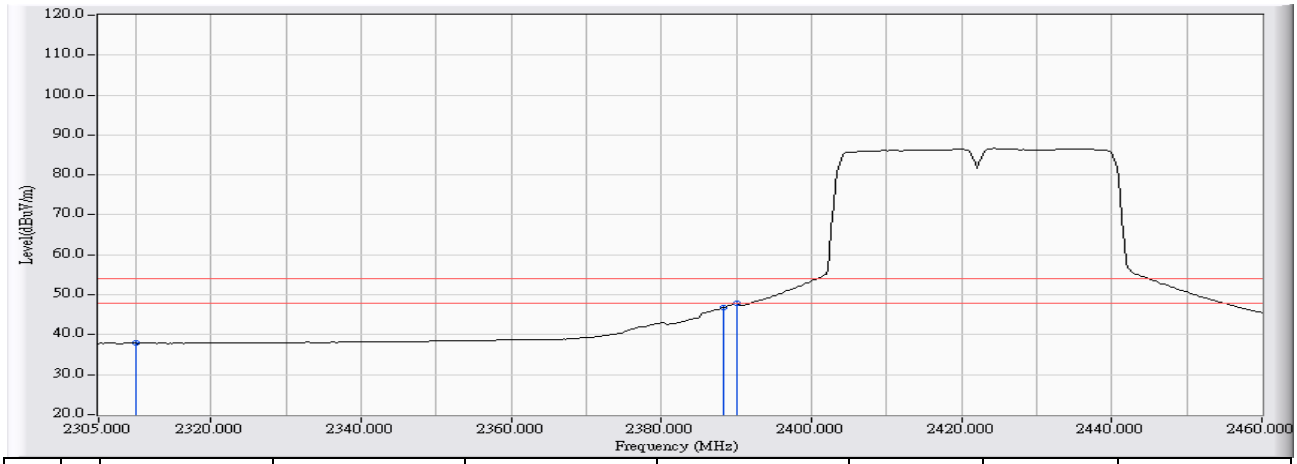


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	25.682	12.003	37.685	-16.315	54.000	AVERAGE
2		2389.217	25.975	17.053	43.028	-10.972	54.000	AVERAGE
3	*	2390.000	25.978	17.345	43.323	-10.677	54.000	AVERAGE

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 : CB1	Time : 2011/04/13 - 18:43
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2422_802.11n(40M)

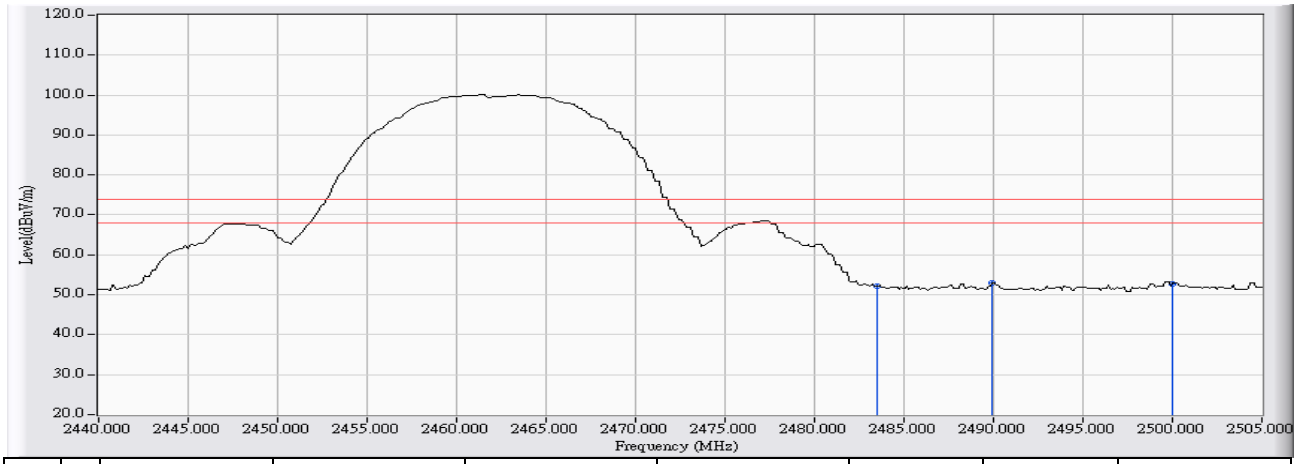


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	25.682	12.154	37.836	-16.164	54.000	AVERAGE
2		2388.183	25.971	20.747	46.719	-7.281	54.000	AVERAGE
3	*	2390.000	25.978	21.855	47.833	-6.167	54.000	AVERAGE

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 : CB1	Time : 2011/03/31 - 14:53
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2462_802.11b

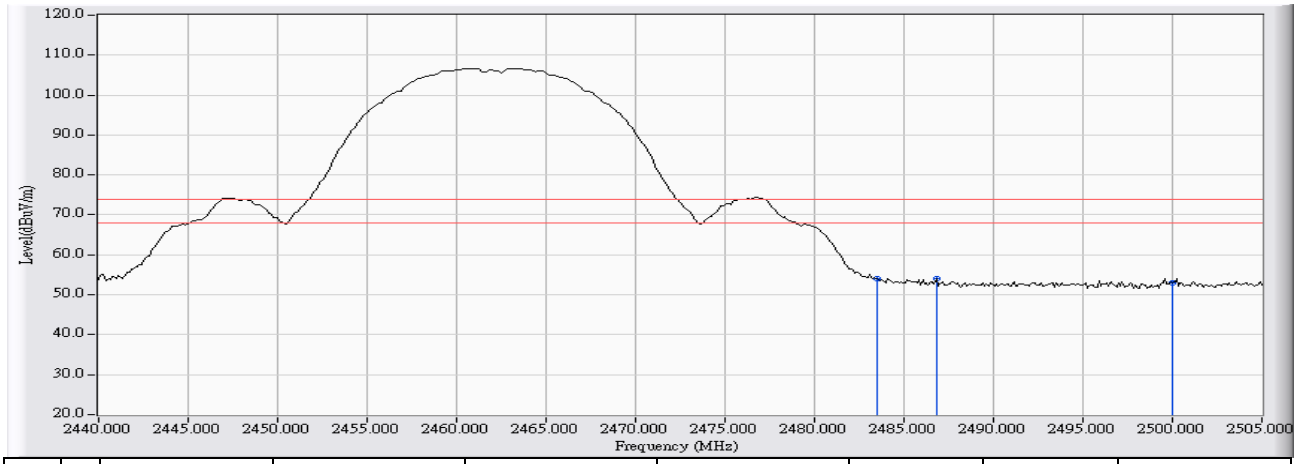


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	26.325	25.753	52.078	-21.922	74.000	PEAK
2	*	2489.942	26.349	26.583	52.932	-21.068	74.000	PEAK
3		2500.000	26.384	26.366	52.749	-21.251	74.000	PEAK

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 : CB1	Time : 2011/03/31 - 14:56
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2462_802.11b

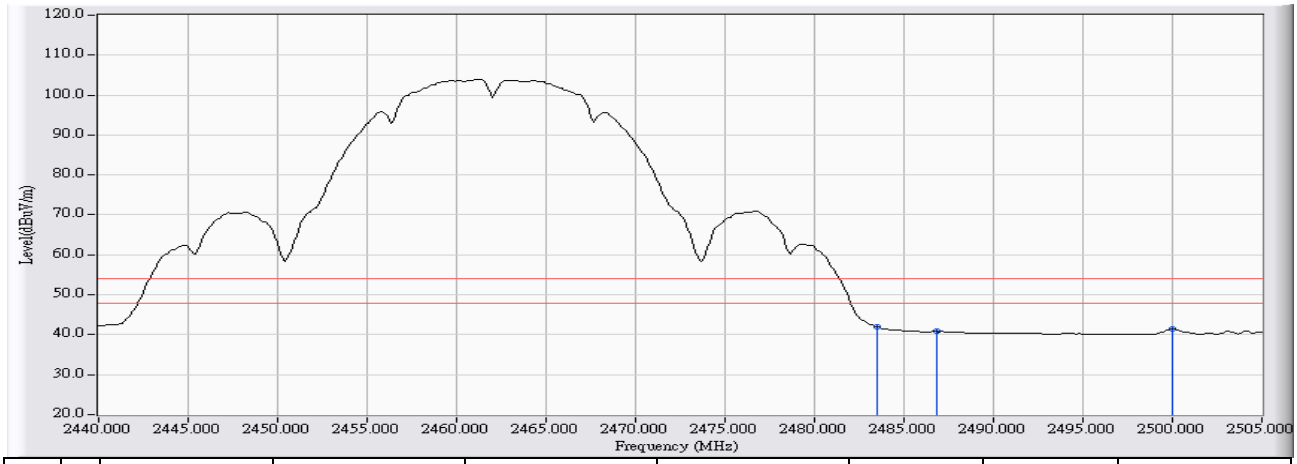


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	26.325	27.602	53.927	-20.073	74.000	PEAK
2	*	2486.800	26.337	27.789	54.126	-19.874	74.000	PEAK
3		2500.000	26.384	26.635	53.018	-20.982	74.000	PEAK

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 : CB1	Time : 2011/03/31 - 14:57
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2462_802.11b

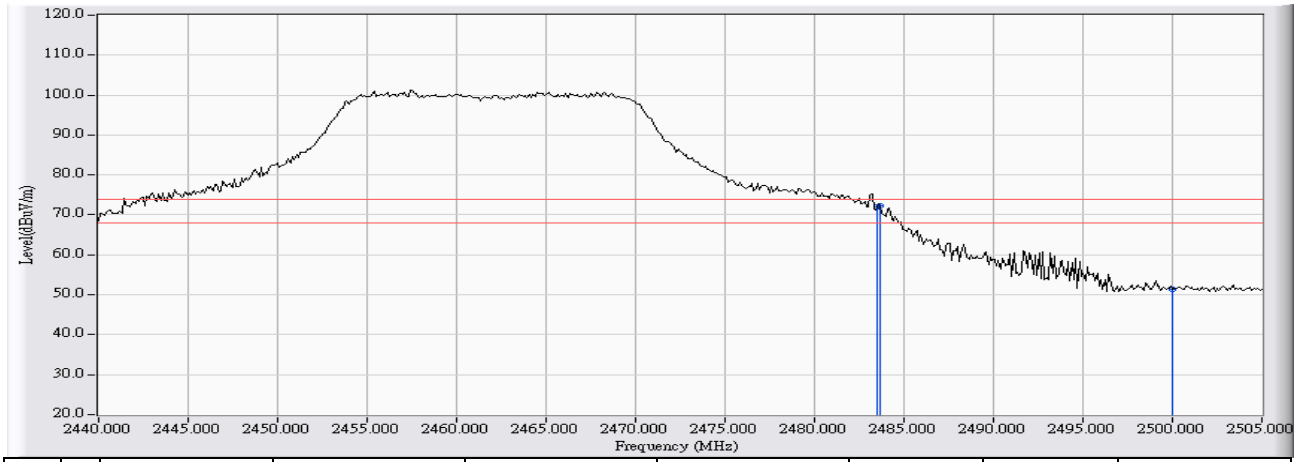


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	26.325	15.616	41.941	-12.059	54.000	AVERAGE
2		2486.800	26.337	14.449	40.786	-13.214	54.000	AVERAGE
3		2500.000	26.384	15.006	41.389	-12.611	54.000	AVERAGE

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 : CB1	Time : 2011/03/31 - 15:05
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2462_802.11g

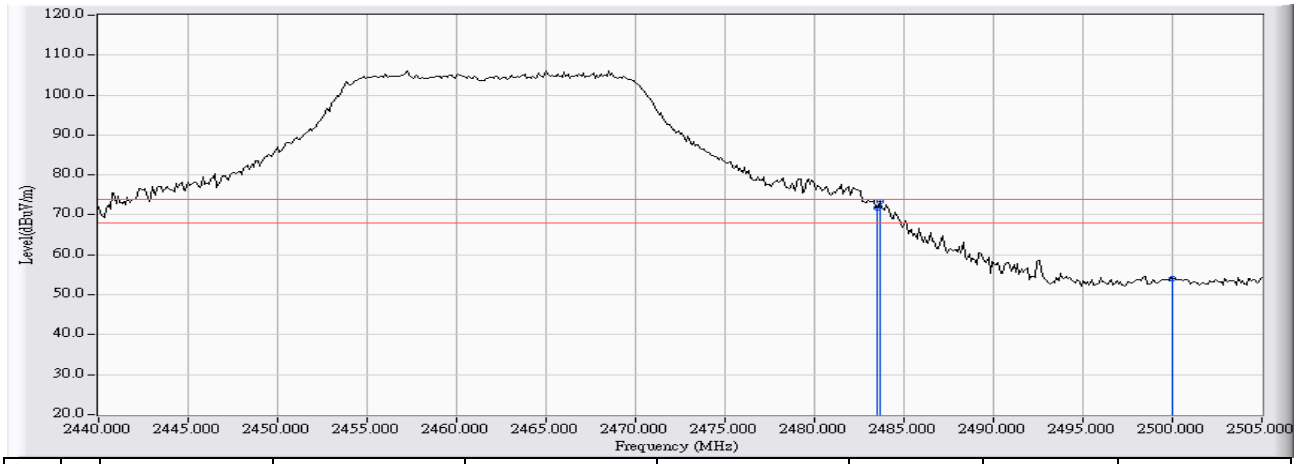


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	26.325	45.728	72.053	-1.947	74.000	PEAK
2	*	2483.658	26.326	46.019	72.344	-1.656	74.000	PEAK
3		2500.000	26.384	25.068	51.451	-22.549	74.000	PEAK

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 : CB1	Time : 2011/03/31 - 15:13
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2462_802.11g

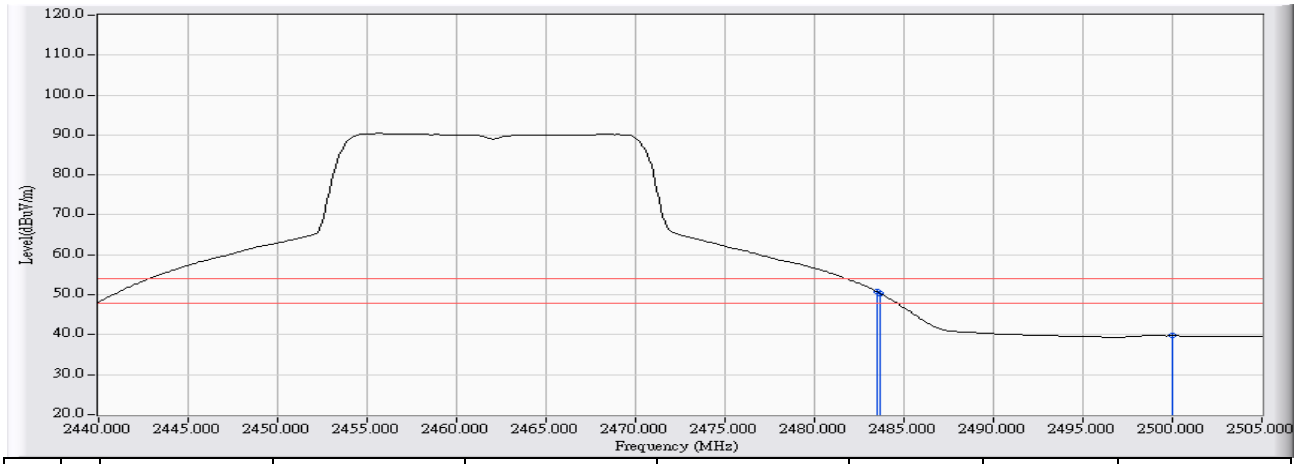


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	26.325	45.536	71.861	-2.139	74.000	PEAK
2	*	2483.658	26.326	46.961	73.286	-0.714	74.000	PEAK
3		2500.000	26.384	27.653	54.036	-19.964	74.000	PEAK

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 : CB1	Time : 2011/03/31 - 15:06
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2462_802.11g

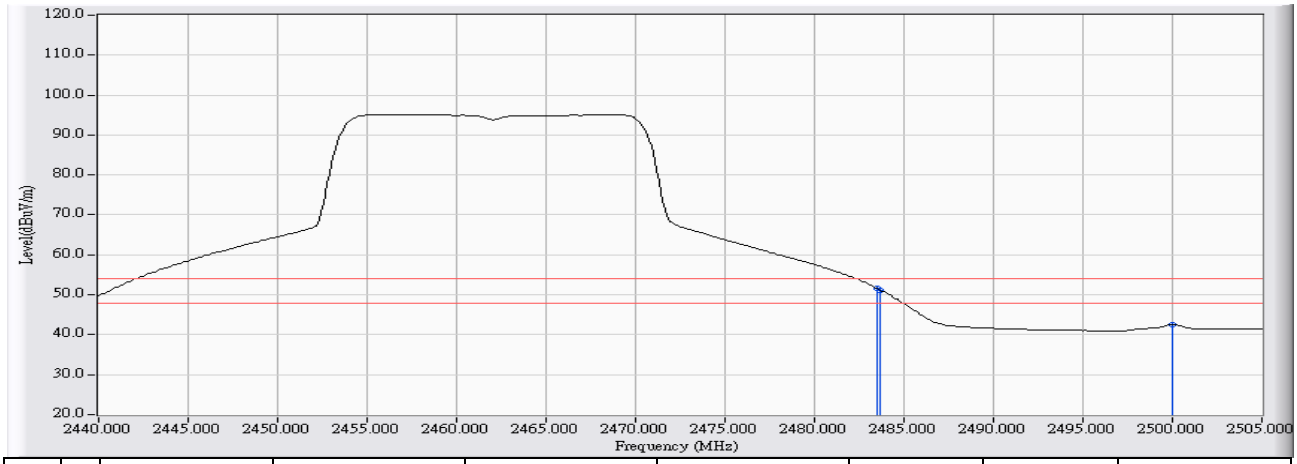


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	26.325	24.413	50.738	-3.262	54.000	AVERAGE
2		2483.658	26.326	24.069	50.394	-3.606	54.000	AVERAGE
3		2500.000	26.384	13.357	39.740	-14.260	54.000	AVERAGE

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 : CB1	Time : 2011/03/31 - 15:13
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2462_802.11g

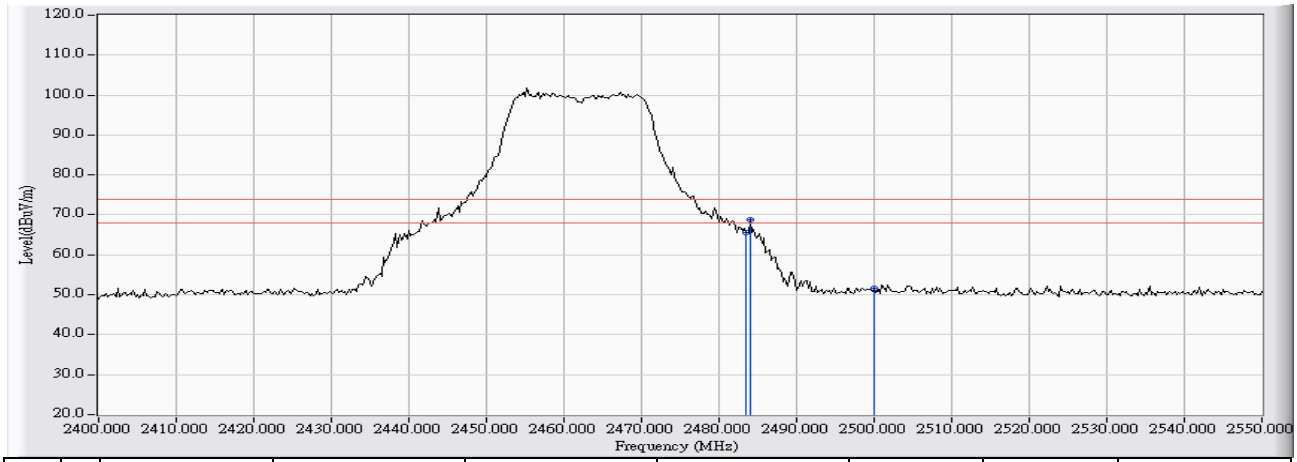


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	26.325	25.280	51.605	-2.395	54.000	AVERAGE
2		2483.658	26.326	24.833	51.158	-2.842	54.000	AVERAGE
3		2500.000	26.384	16.103	42.486	-11.514	54.000	AVERAGE

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 : CB1	Time : 2011/04/13 - 18:51
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2462_802.11n(20M)

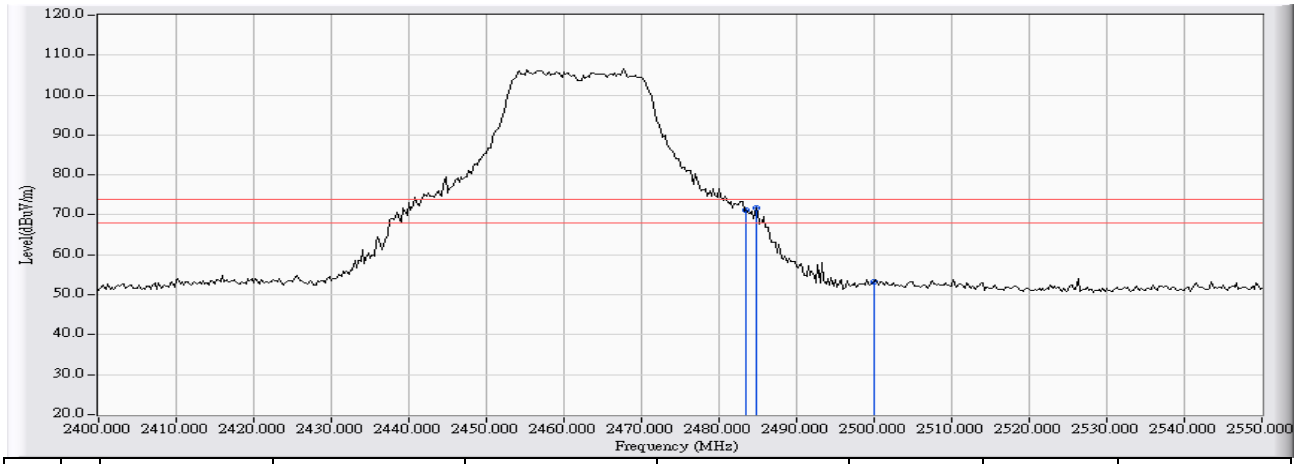


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	26.325	39.331	65.656	-8.344	74.000	PEAK
2	*	2484.000	26.327	42.422	68.749	-5.251	74.000	PEAK
3		2500.000	26.384	25.292	51.675	-22.325	74.000	PEAK

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.

Site : CB1	Time : 2011/03/31 - 17:01
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2462_802.11n(20M)

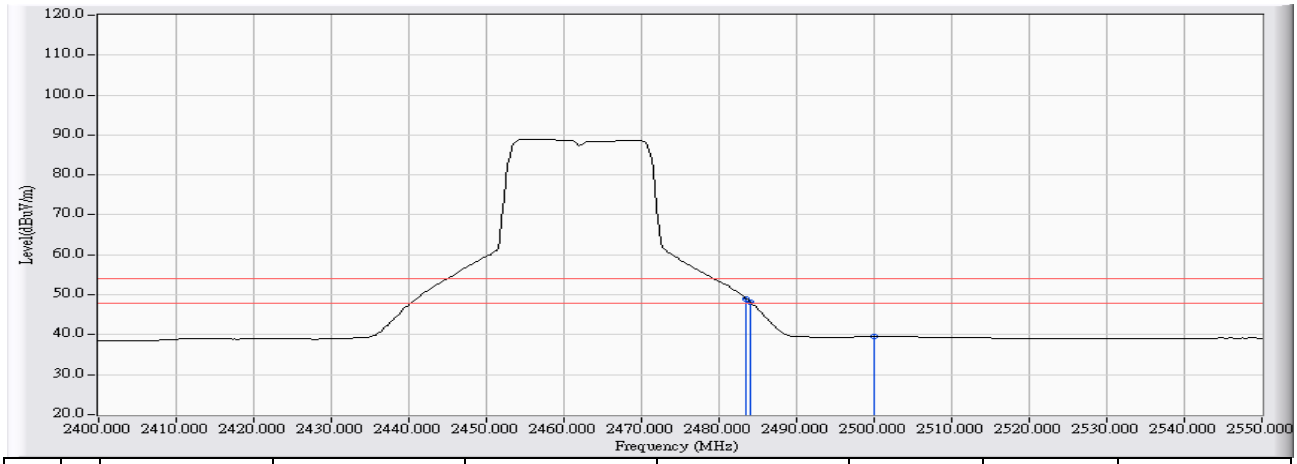


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	26.325	44.858	71.183	-2.817	74.000	PEAK
2	*	2484.750	26.329	45.341	71.671	-2.329	74.000	PEAK
3		2500.000	26.384	26.878	53.261	-20.739	74.000	PEAK

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 : CB1	Time : 2011/04/13 - 18:51
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2462_802.11n(20M)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	26.325	22.696	49.021	-4.979	54.000	AVERAGE
2		2484.000	26.327	21.916	48.243	-5.757	54.000	AVERAGE
3		2500.000	26.384	13.112	39.495	-14.505	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.

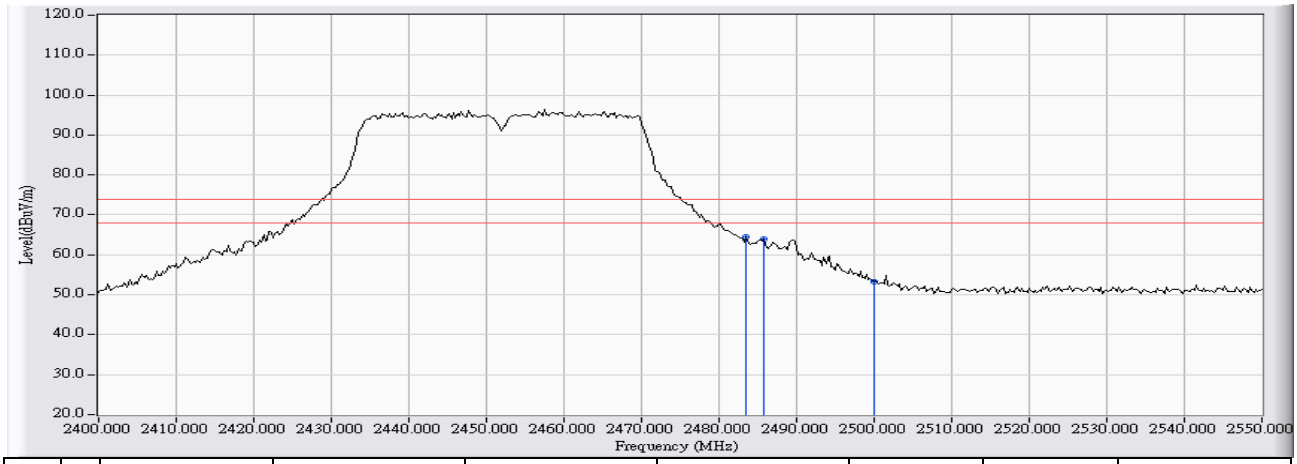
Site : CB1	Time : 2011/03/31 - 17:03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2462_802.11n(20M)

		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	26.325	26.659	52.984	-1.016	54.000	AVERAGE
2		2484.750	26.329	24.301	50.631	-3.369	54.000	AVERAGE
3		2500.000	26.384	14.523	40.906	-13.094	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 : CB1	Time : 2011/04/13 - 18:30
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2452_802.11n(40M)

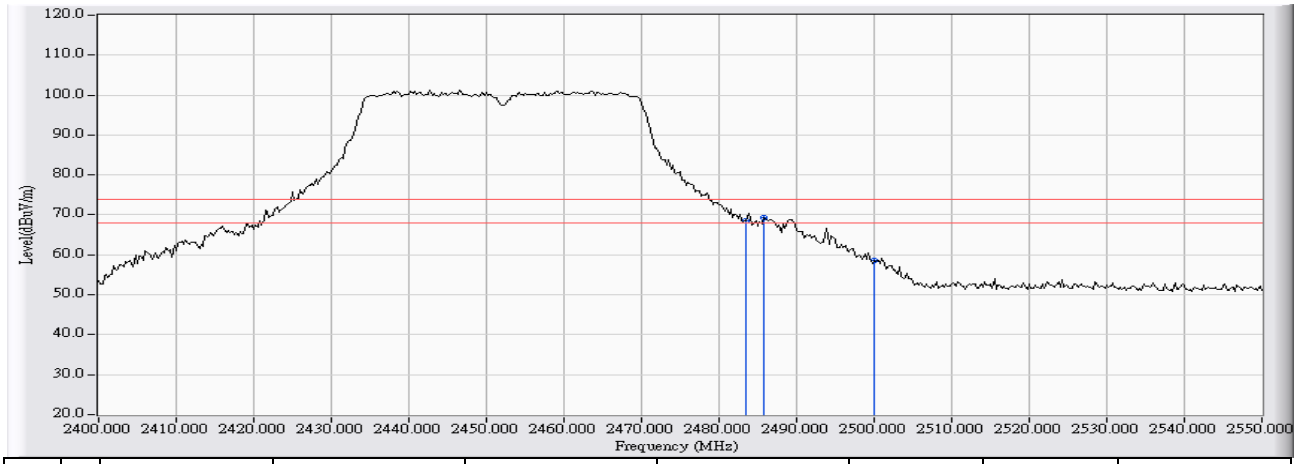


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	26.325	38.054	64.379	-9.621	74.000	PEAK
2		2485.750	26.333	37.700	64.033	-9.967	74.000	PEAK
3		2500.000	26.384	26.791	53.174	-20.826	74.000	PEAK

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 : CB1	Time : 2011/03/31 - 16:51
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2452_802.11n(40M)

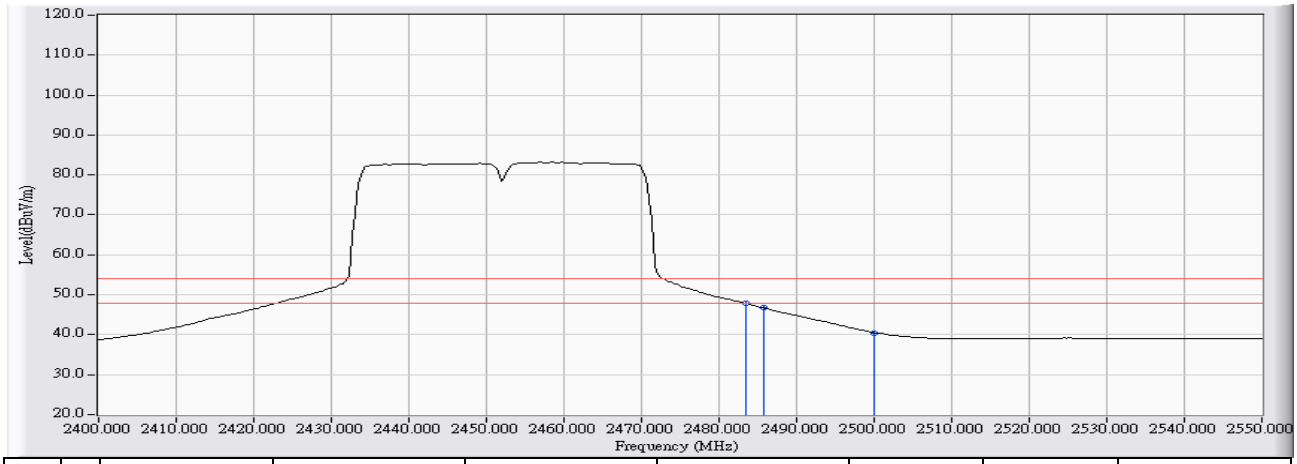


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2483.500	26.325	42.112	68.437	-5.563	74.000	PEAK
2	*	2485.750	26.333	43.030	69.363	-4.637	74.000	PEAK
3		2500.000	26.384	32.259	58.642	-15.358	74.000	PEAK

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 : CB1	Time : 2011/04/13 - 18:31
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2452_802.11n(40M)

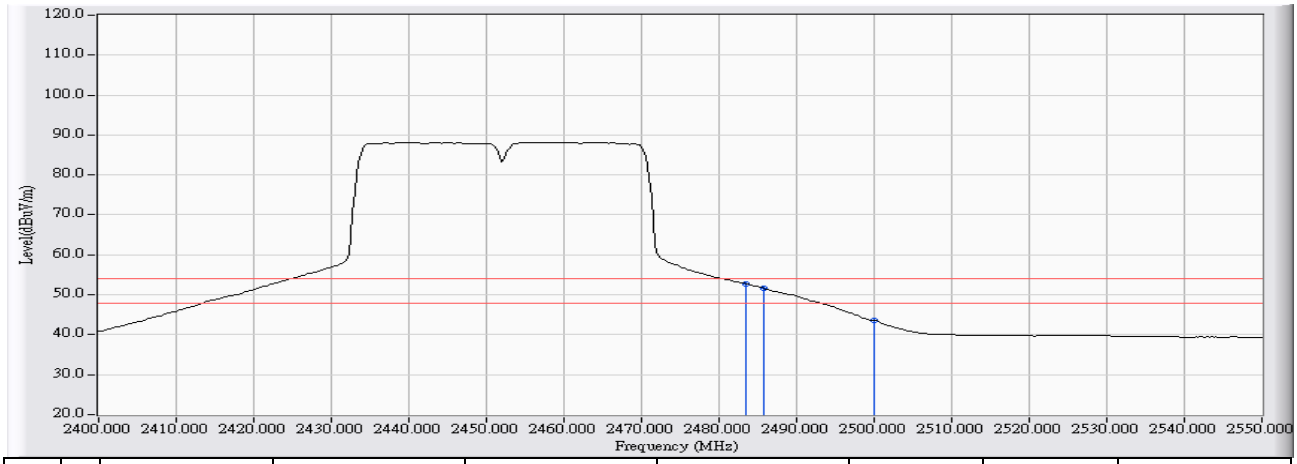


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	26.325	21.536	47.861	-6.139	54.000	AVERAGE
2		2485.750	26.333	20.371	46.704	-7.296	54.000	AVERAGE
3		2500.000	26.384	14.098	40.481	-13.519	54.000	AVERAGE

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 : CB1	Time : 2011/03/31 - 16:49
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2010-12) - VERTICAL	Power : AC 120V/60Hz
EUT : Wireless 802.11n ADSL2/2+ 4-port Ethernet Router	Note : TX-2452_802.11n(40M)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	26.325	26.366	52.691	-1.309	54.000	AVERAGE
2		2485.750	26.333	25.341	51.674	-2.326	54.000	AVERAGE
3		2500.000	26.384	17.235	43.618	-10.382	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

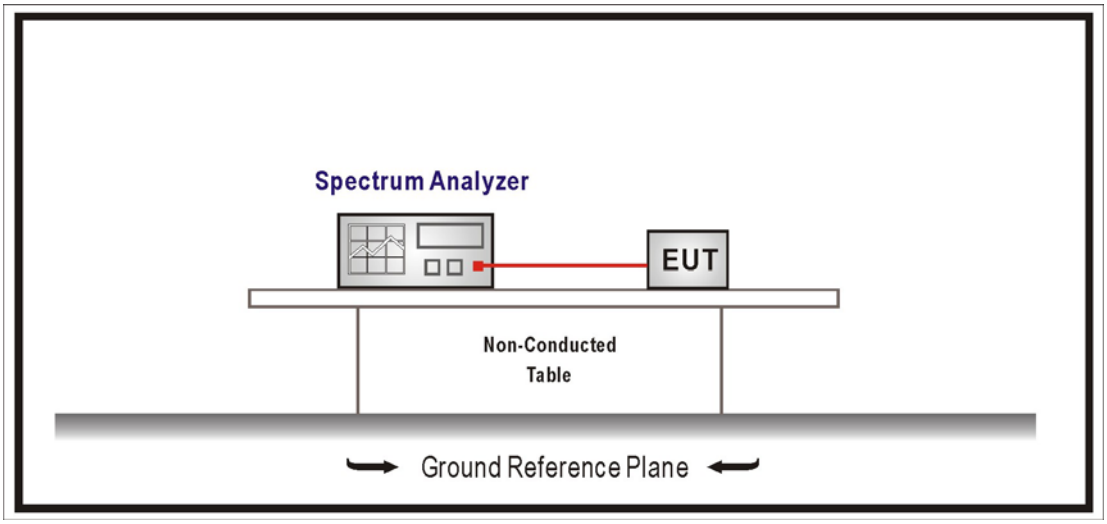
The following test equipment is used during the test:

Occupied Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2012/02/04

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

7.2. Test Setup



7.3. Test Procedures

The EUT was setup according to ANSI C63.4: 2009; 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. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2010

7.6. Uncertainty

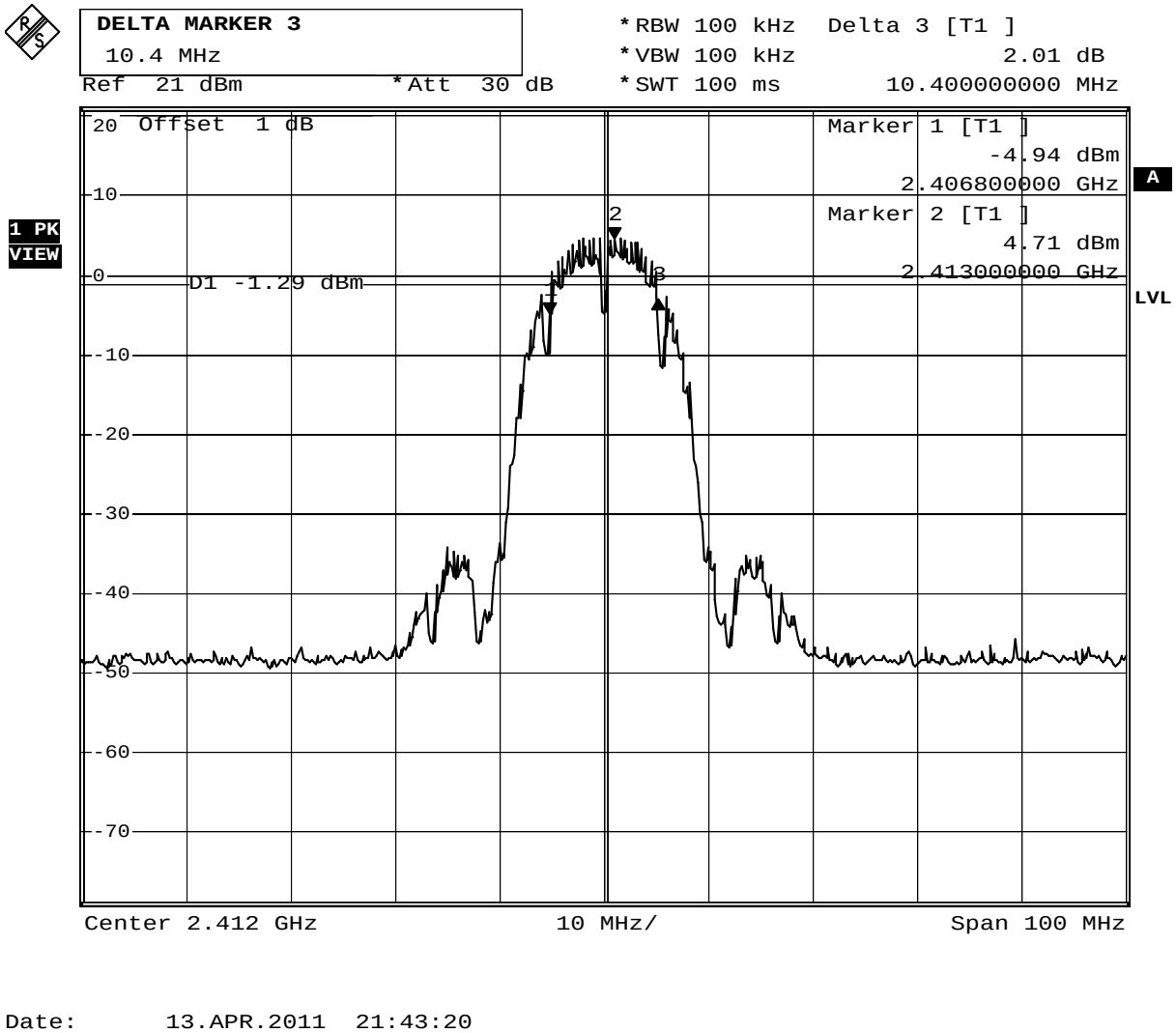
The measurement uncertainty is defined as ±150Hz

7.7. Test Result

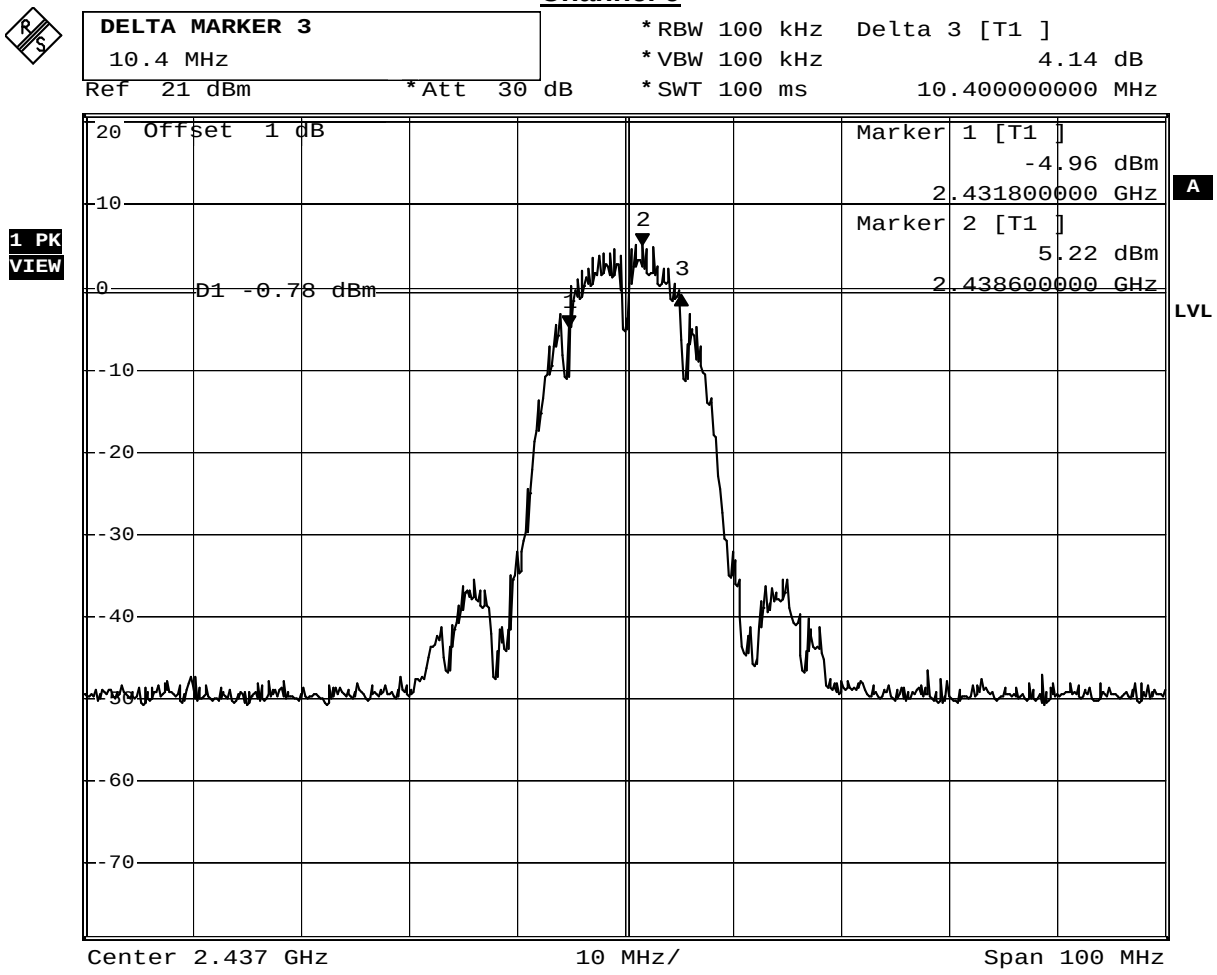
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

802.11 b				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	10.4	≧0.5	Pass
6	2437	10.4	≧0.5	Pass
11	2462	10.6	≧0.5	Pass

Channel 1

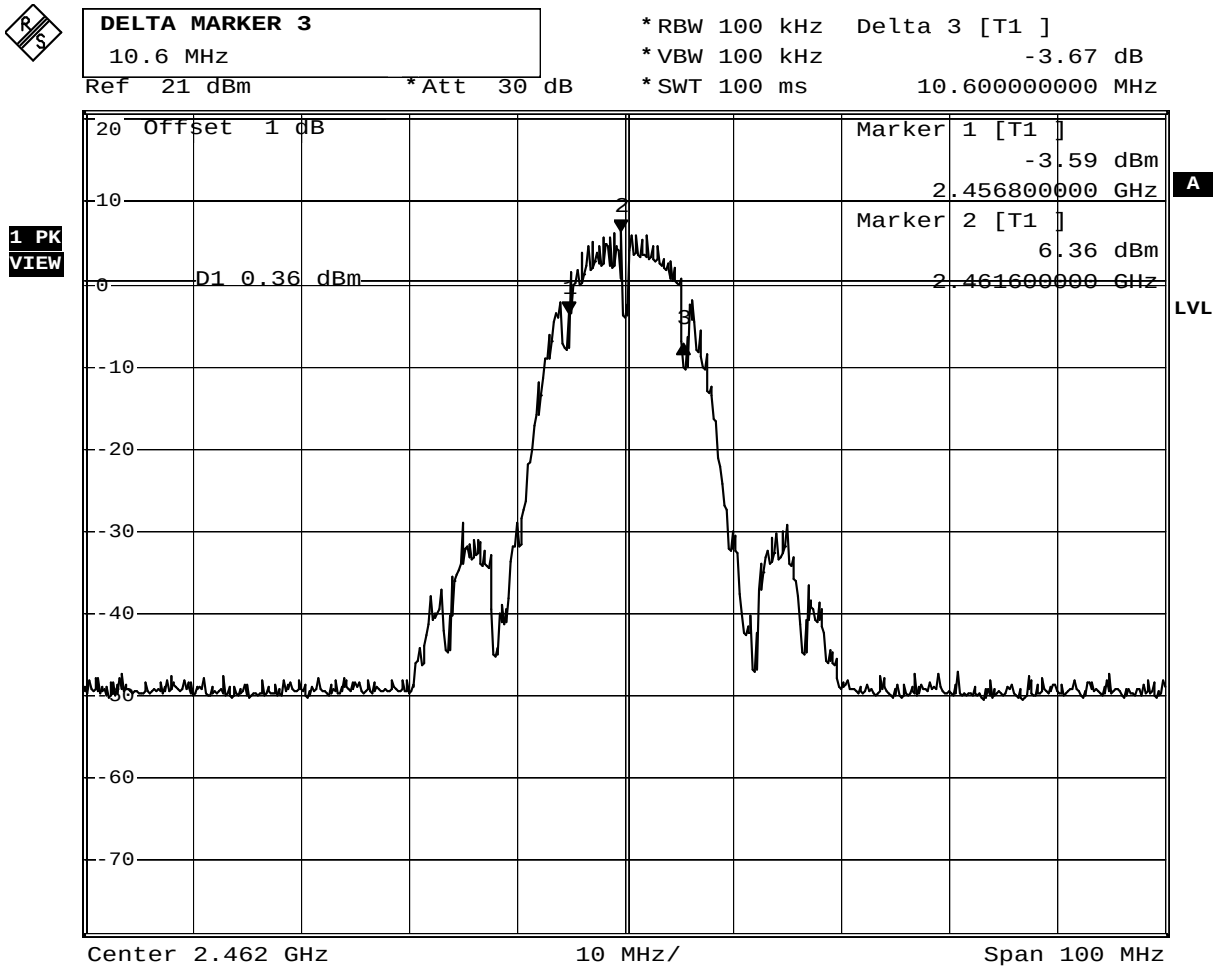


Channel 6



Date: 13.APR.2011 21:45:23

Channel 11

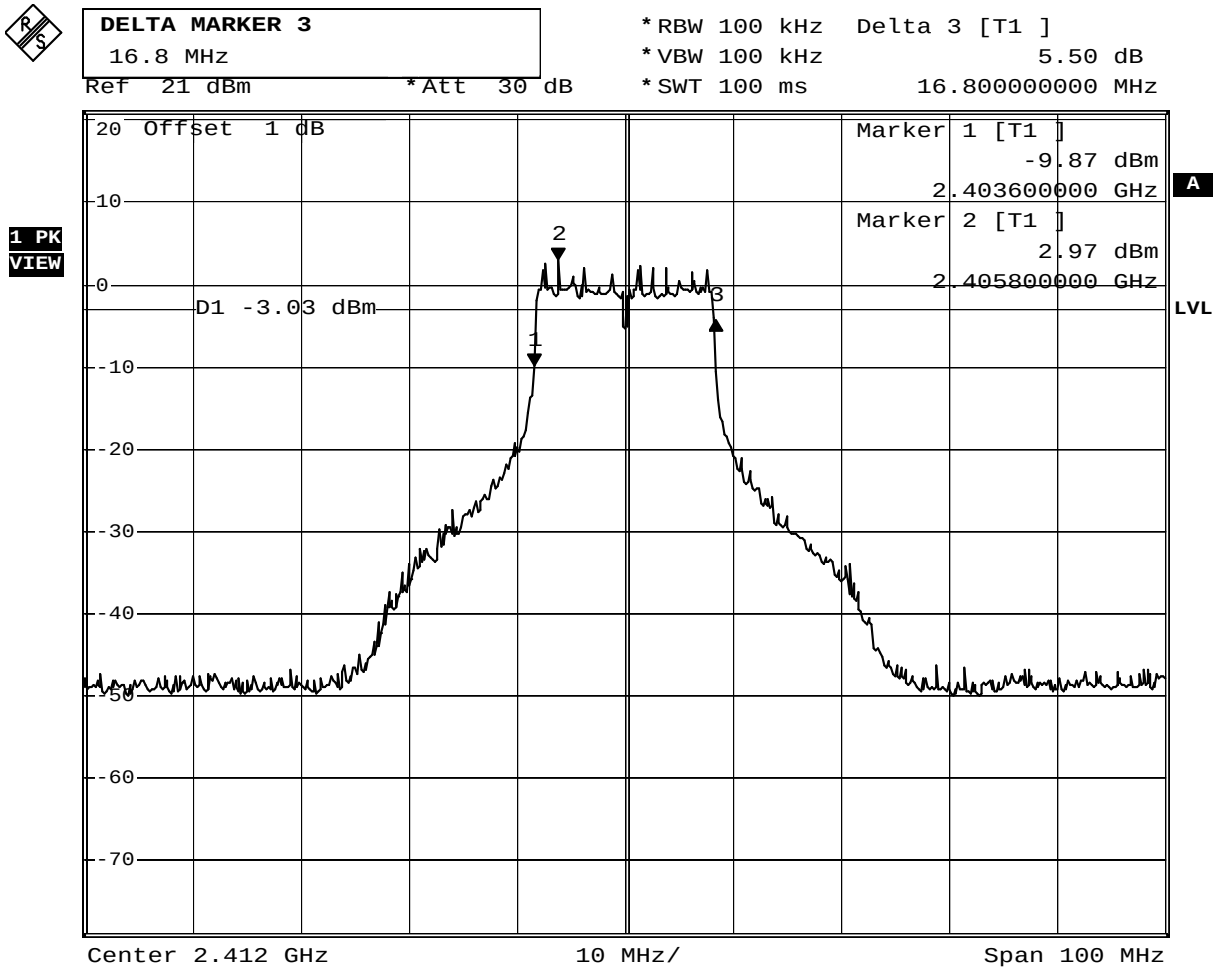


Date: 13.APR.2011 21:47:20

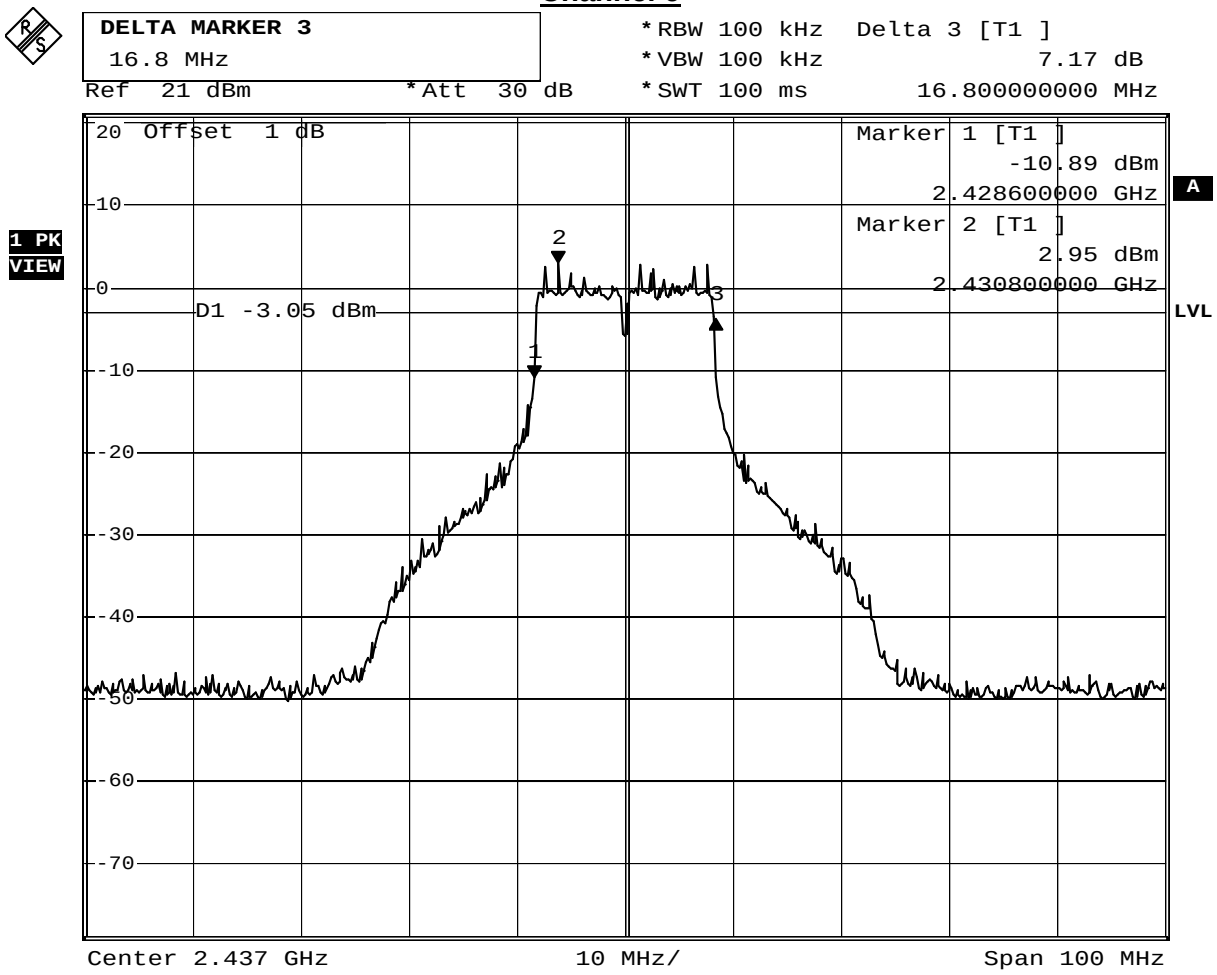
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	16.8	≧0.5	Pass
6	2437	16.8	≧0.5	Pass
11	2462	16.8	≧0.5	Pass

Channel 1

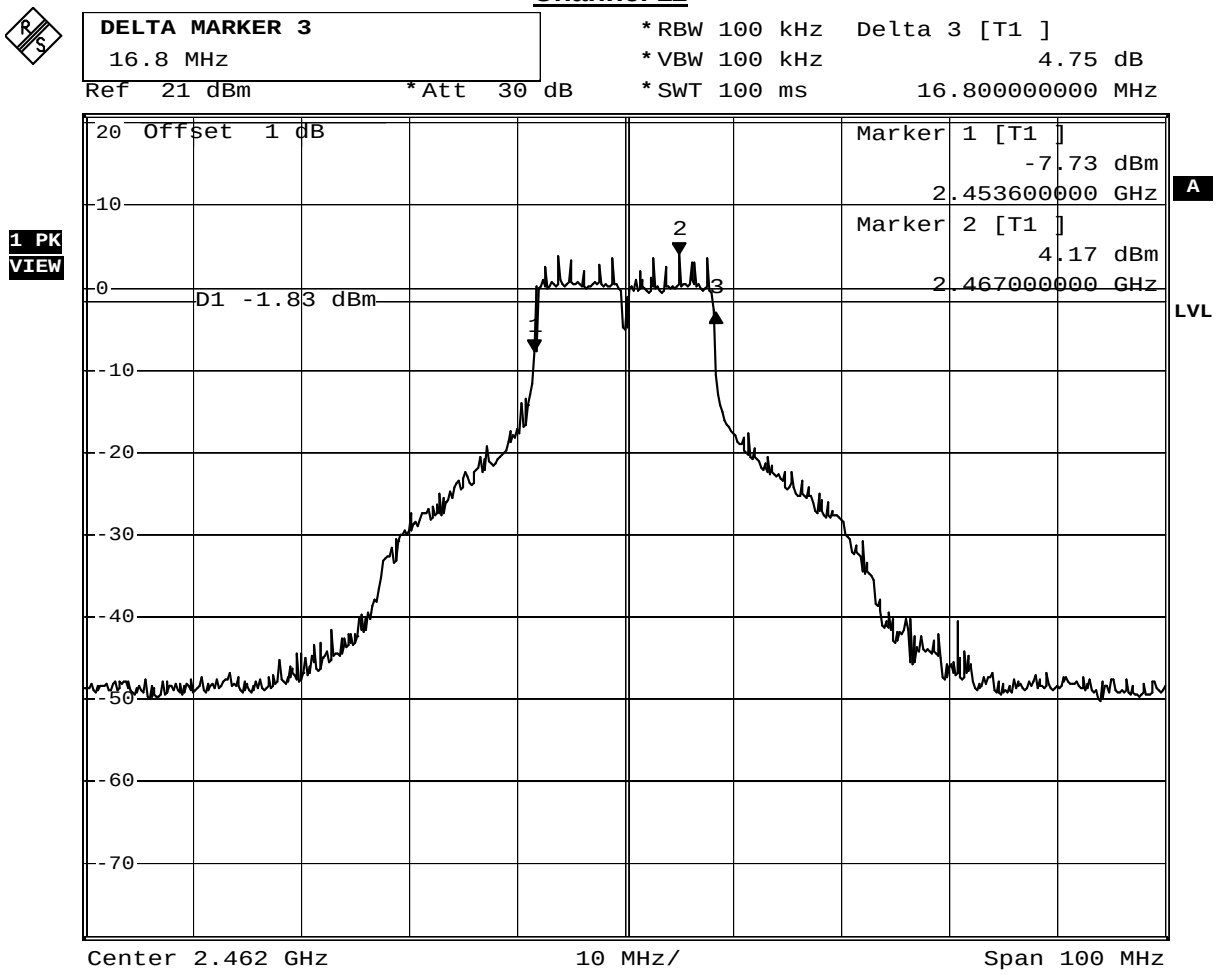


Channel 6



Date: 13.APR.2011 21:50:24

Channel 11

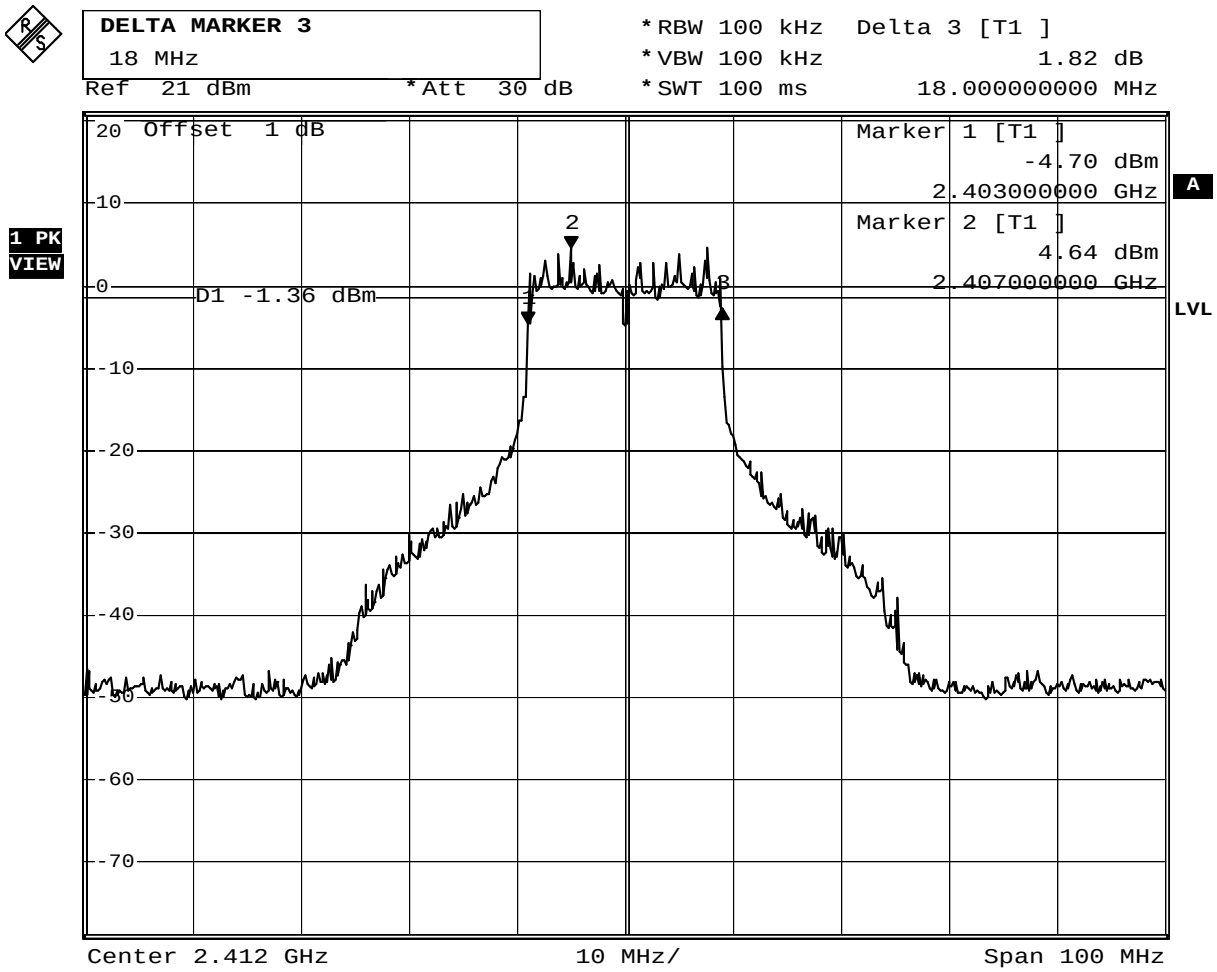


Date: 13.APR.2011 21:48:46

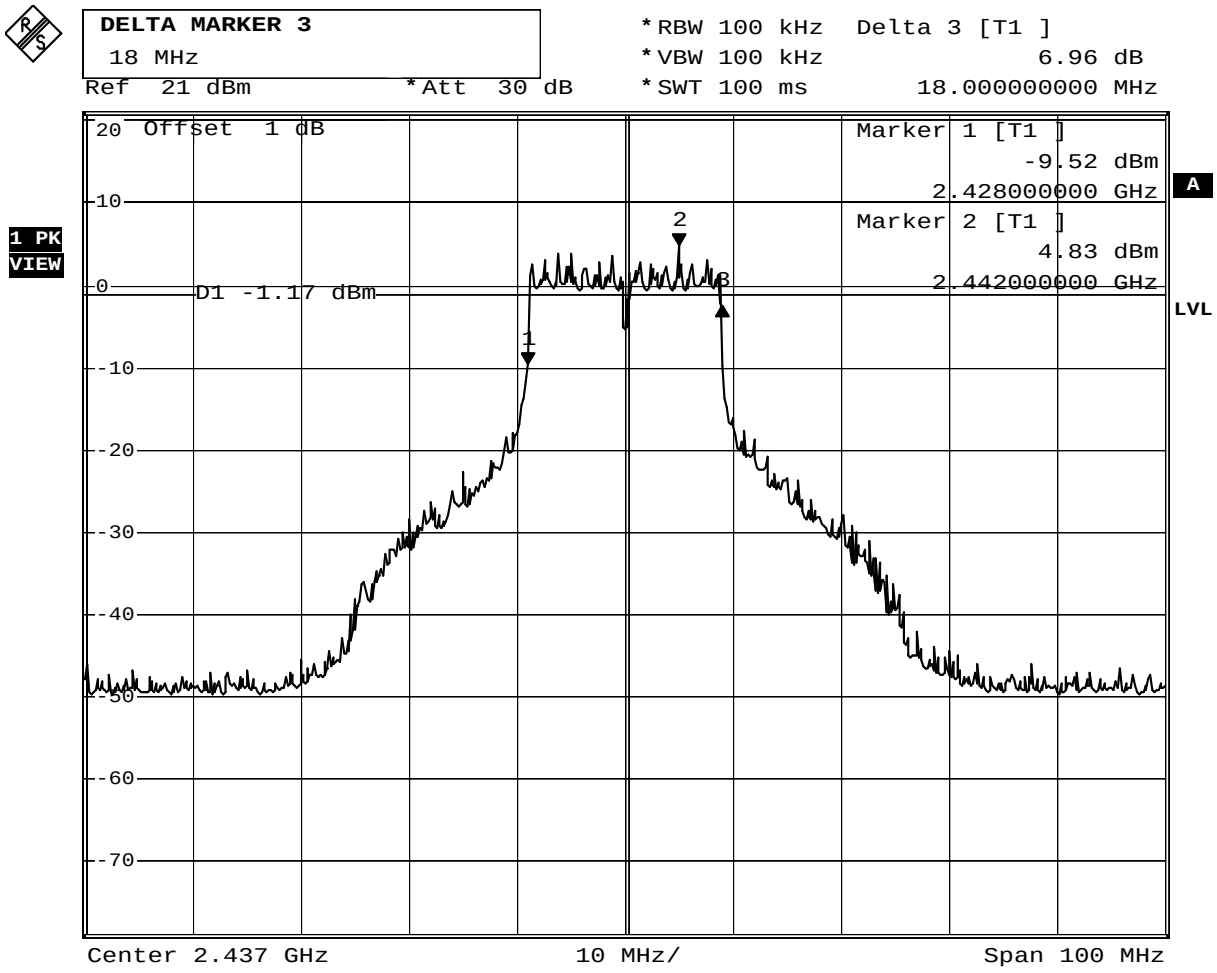
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE 802.11n (ANT A(20MHz))				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (KHz)	Result
1	2412	18.00	≧0.5	Pass
6	2437	18.00	≧0.5	Pass
11	2462	18.00	≧0.5	Pass

Channel 1

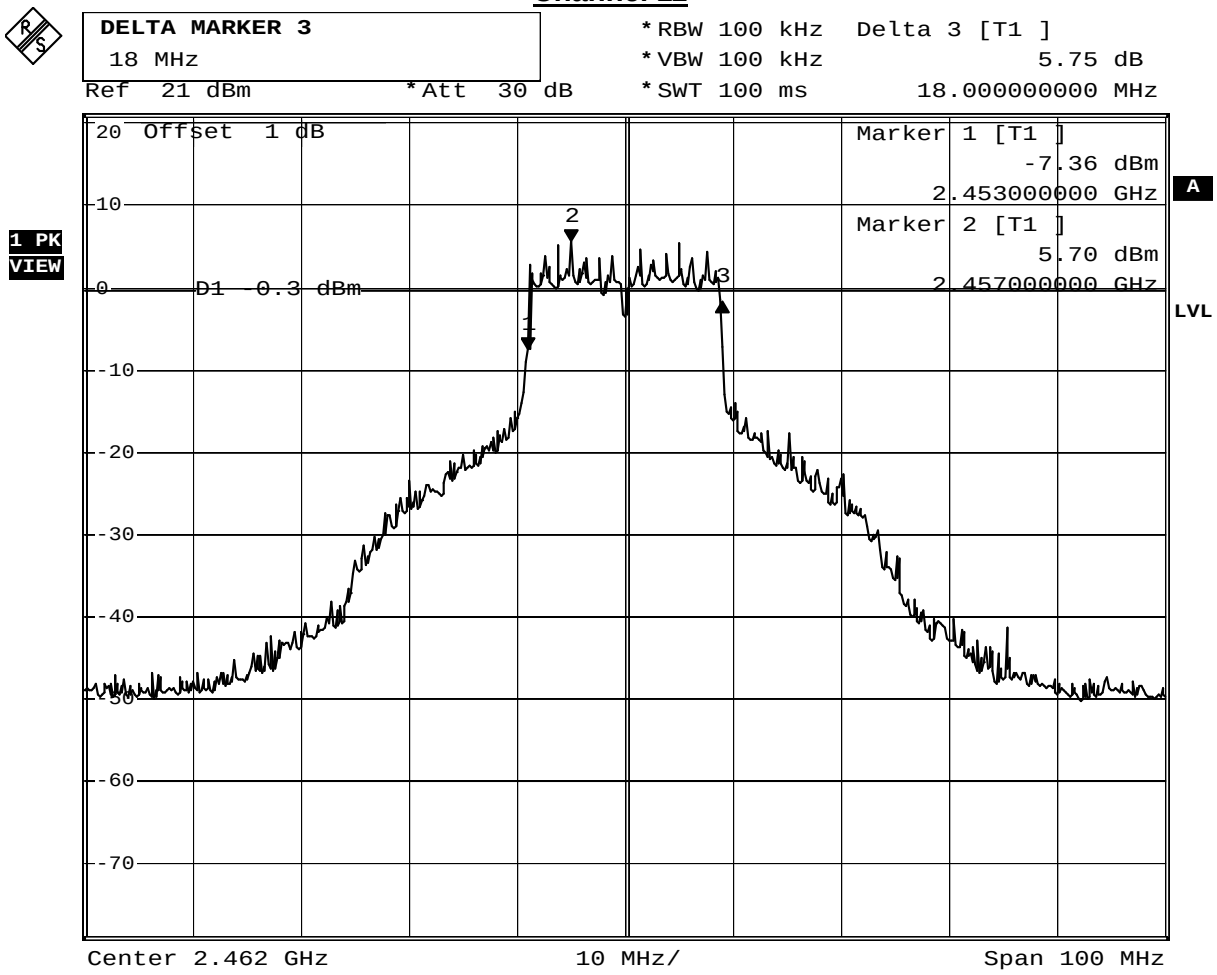


Channel 6



Date: 13.APR.2011 21:58:31

Channel 11

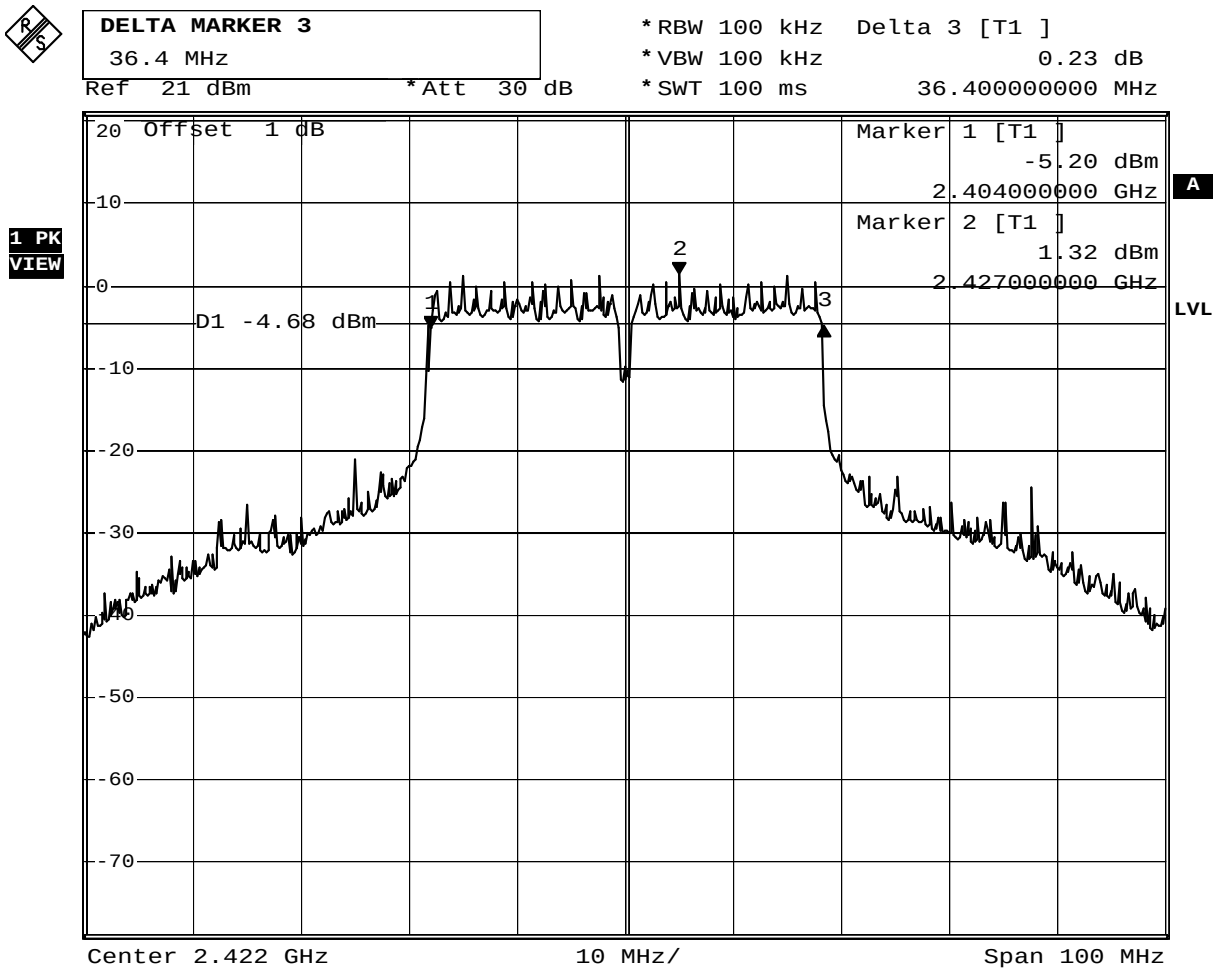


Date: 13.APR.2011 21:59:43

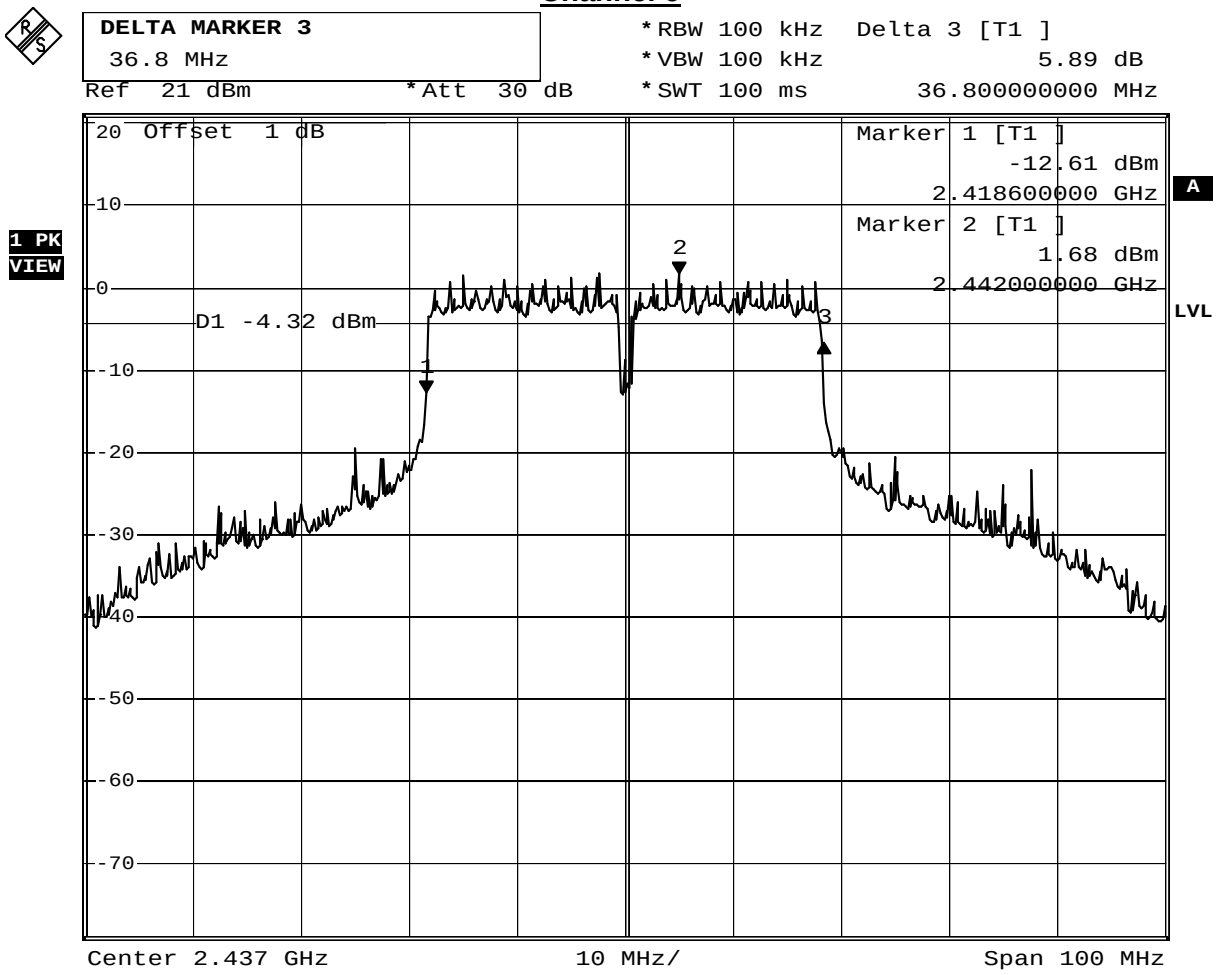
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE 802.11n (ANT A(40MHz))				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (KHz)	Result
3	2422	36.4	≧0.5	Pass
6	2437	36.8	≧0.5	Pass
9	2452	36.8	≧0.5	Pass

Channel 3

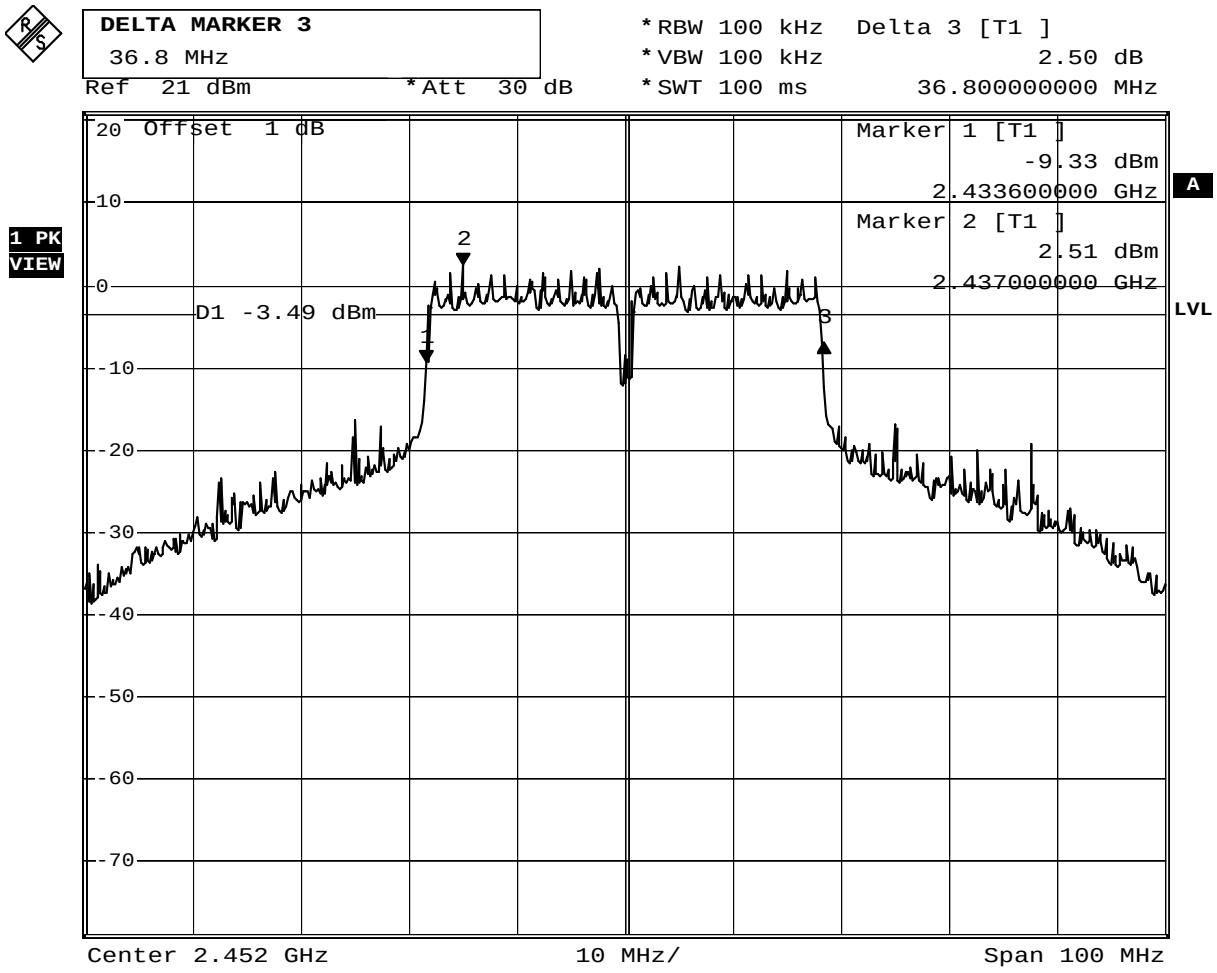


Channel 6



Date: 13.APR.2011 22:07:18

Channel 9

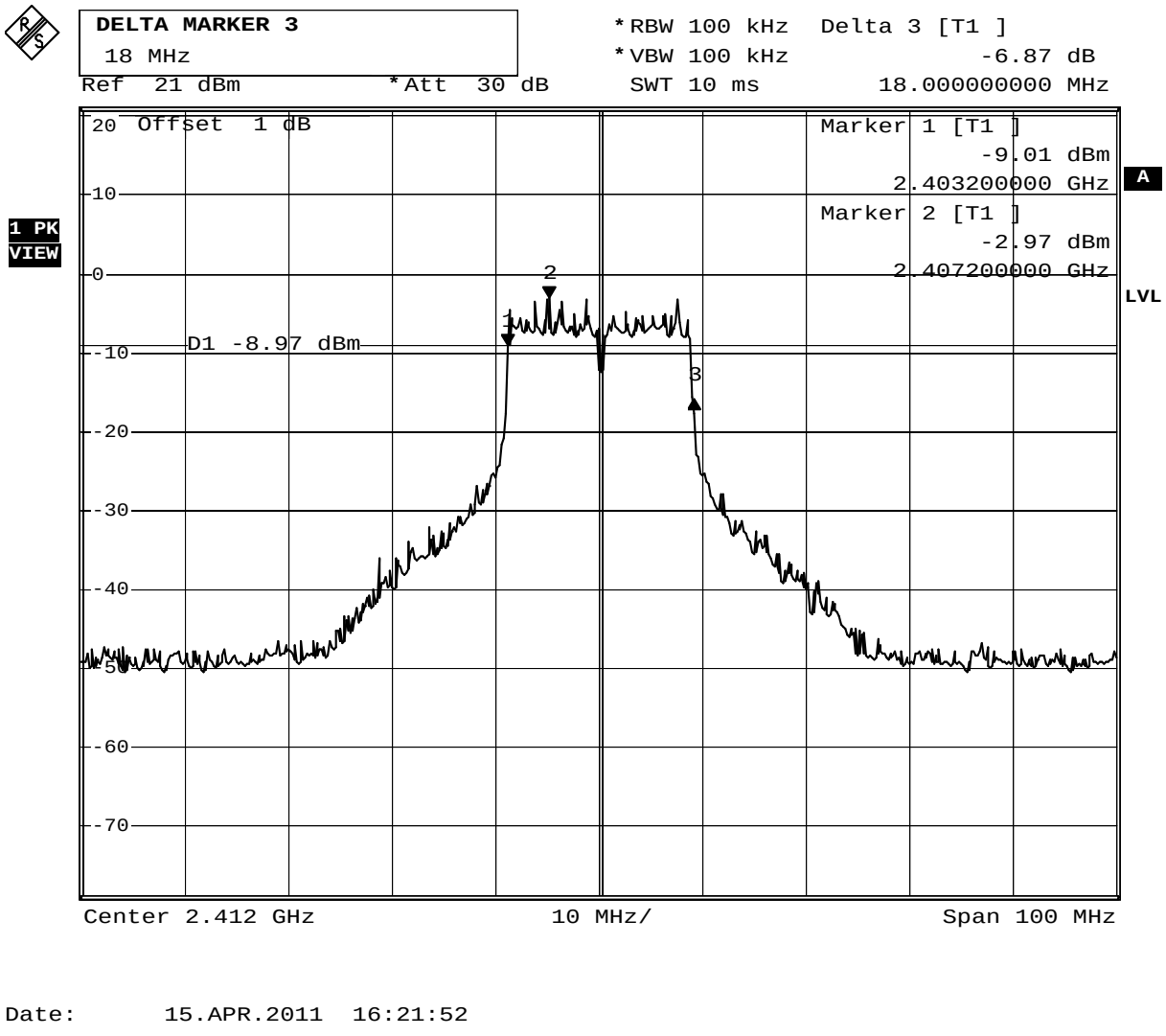


Date: 13.APR.2011 22:10:47

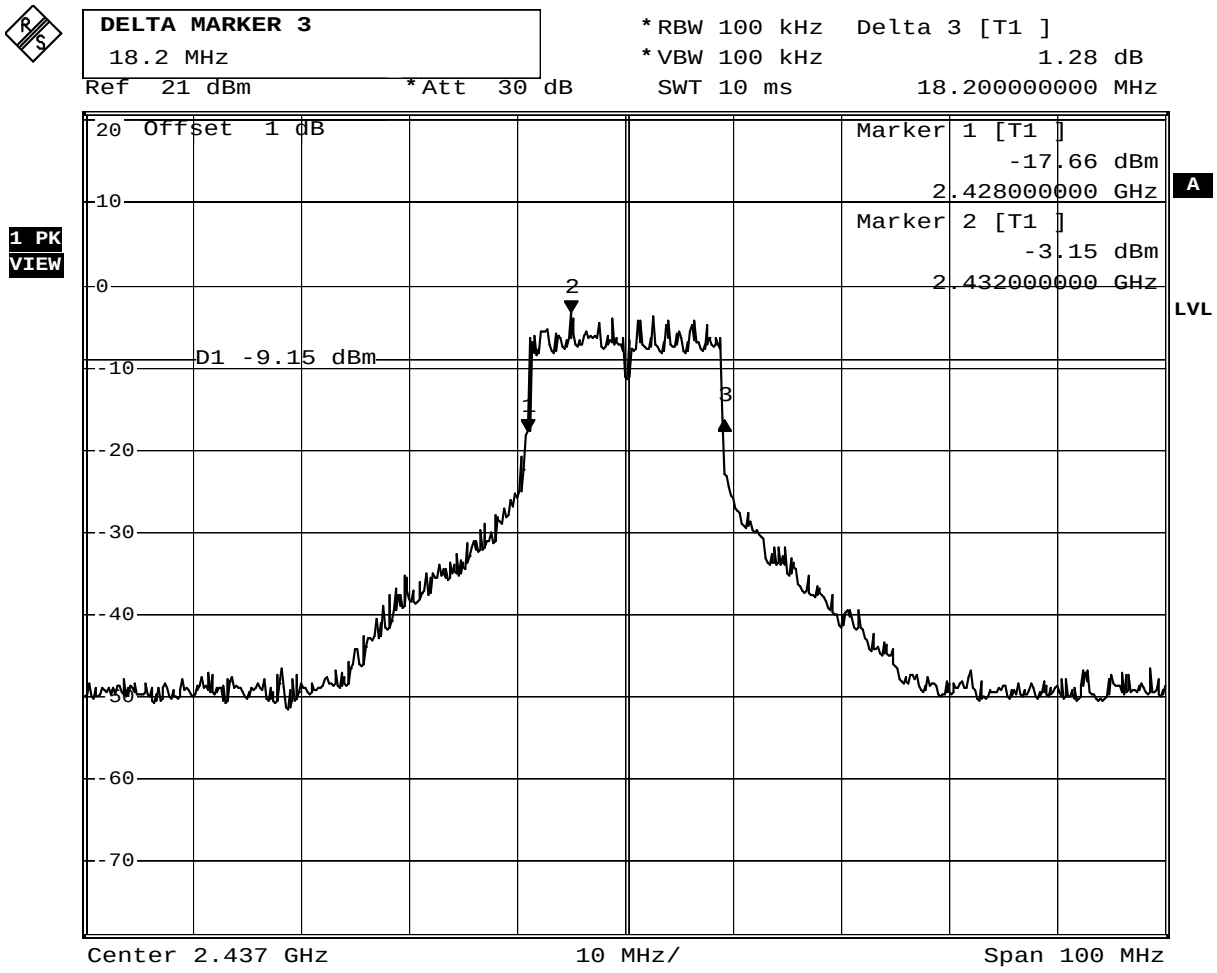
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE 802.11n (ANT B(20MHz))				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	18.00	≧0.5	Pass
6	2437	18.20	≧0.5	Pass
11	2462	18.20	≧0.5	Pass

Channel 1

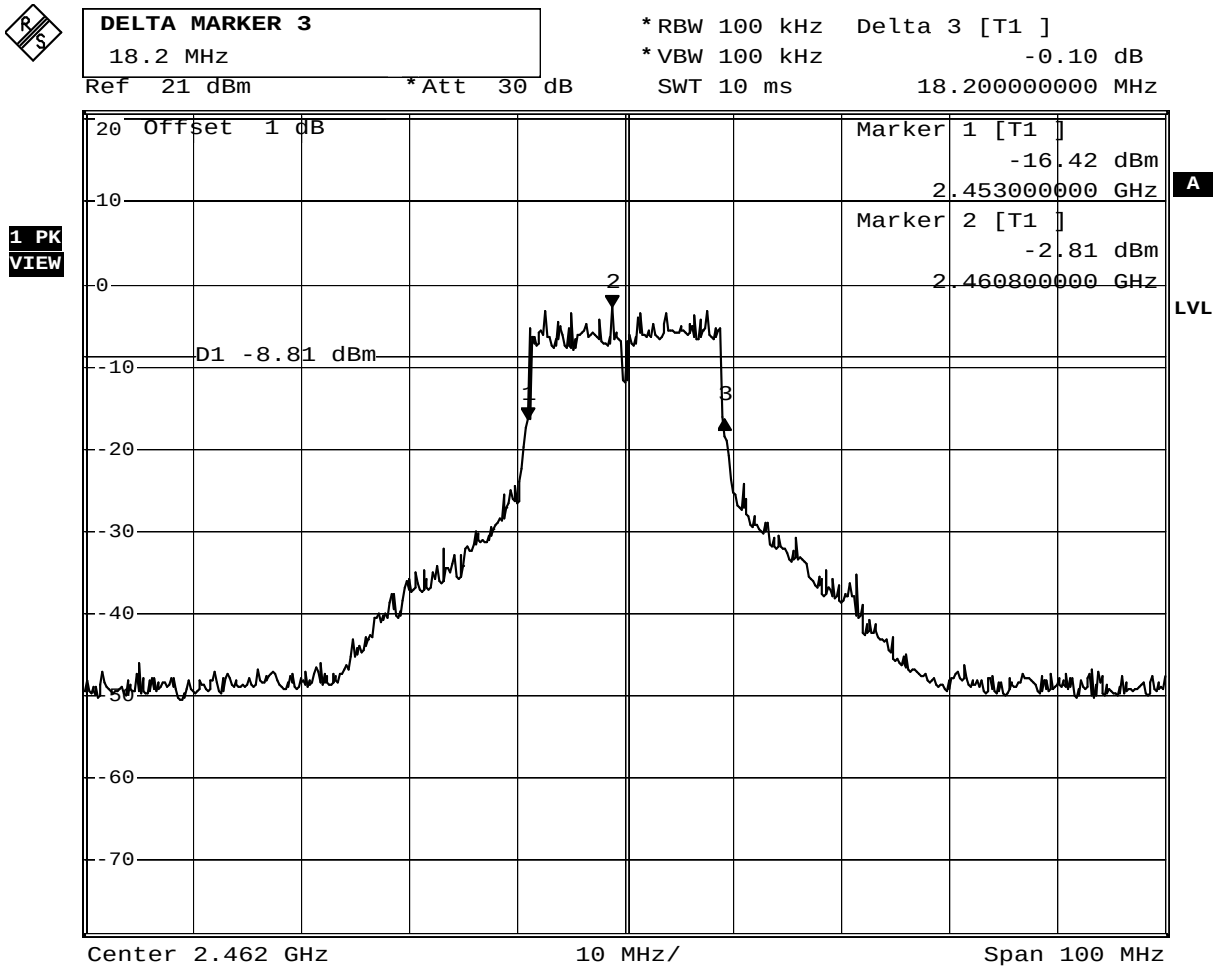


Channel 6



Date: 15.APR.2011 16:23:51

Channel 11

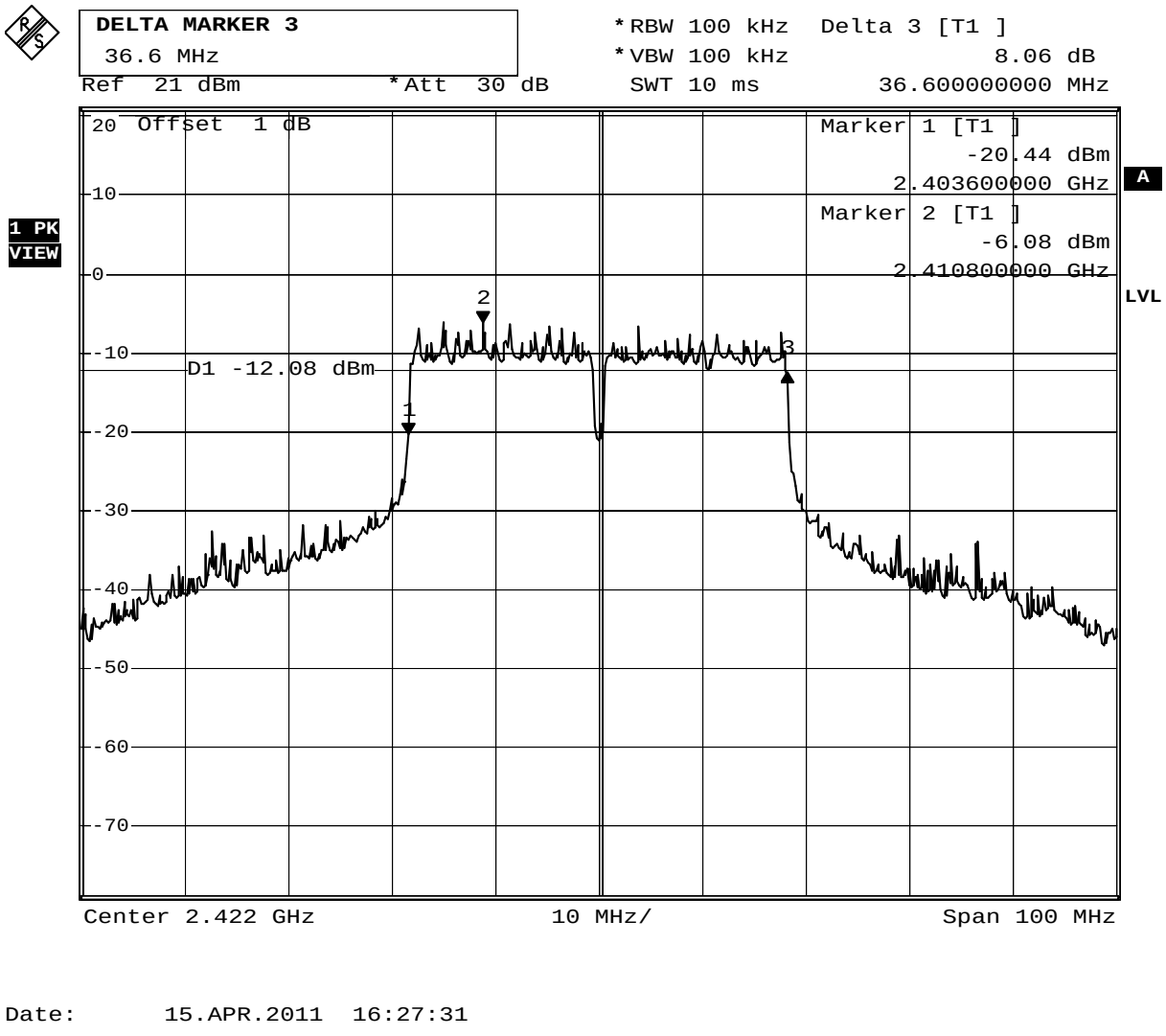


Date: 15.APR.2011 16:24:52

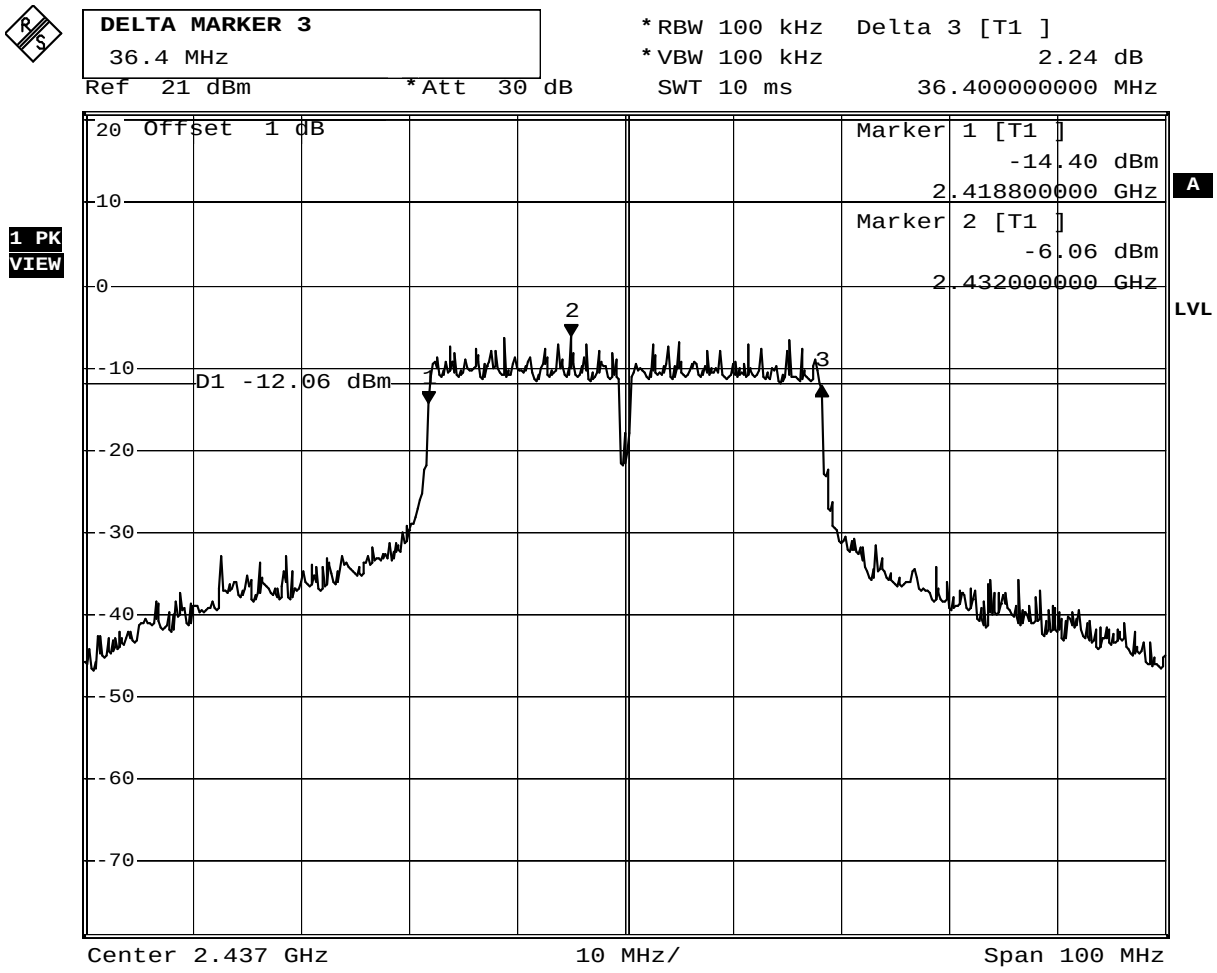
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE 802.11n (ANT B(40MHz))				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
3	2422	36.6	≧0.5	Pass
6	2437	36.4	≧0.5	Pass
9	2452	36.8	≧0.5	Pass

Channel 3

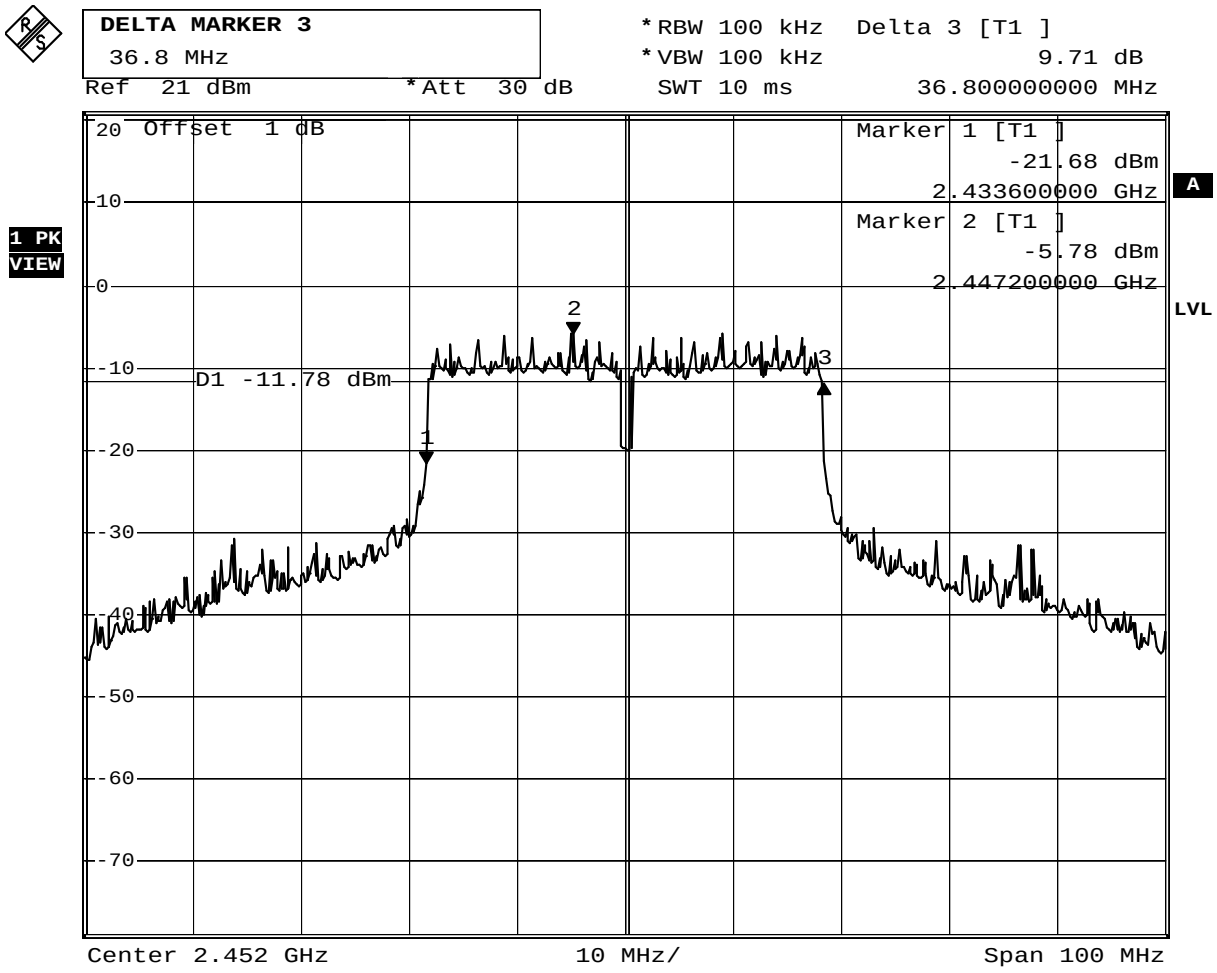


Channel 6



Date: 15.APR.2011 16:29:08

Channel 9



Date: 15.APR.2011 16:30:38

8. Power Density

8.1. Test Equipment

The following test equipment is used during the test:

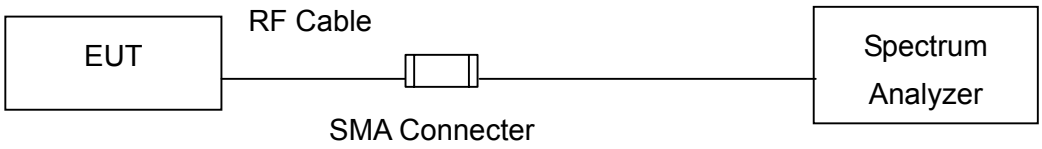
Power Density / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2012/02/04

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

8.2. Test Setup

IEEE 802.11 b / g / n (20M / 40M) 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: 2009; 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. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2010

8.6. Uncertainty

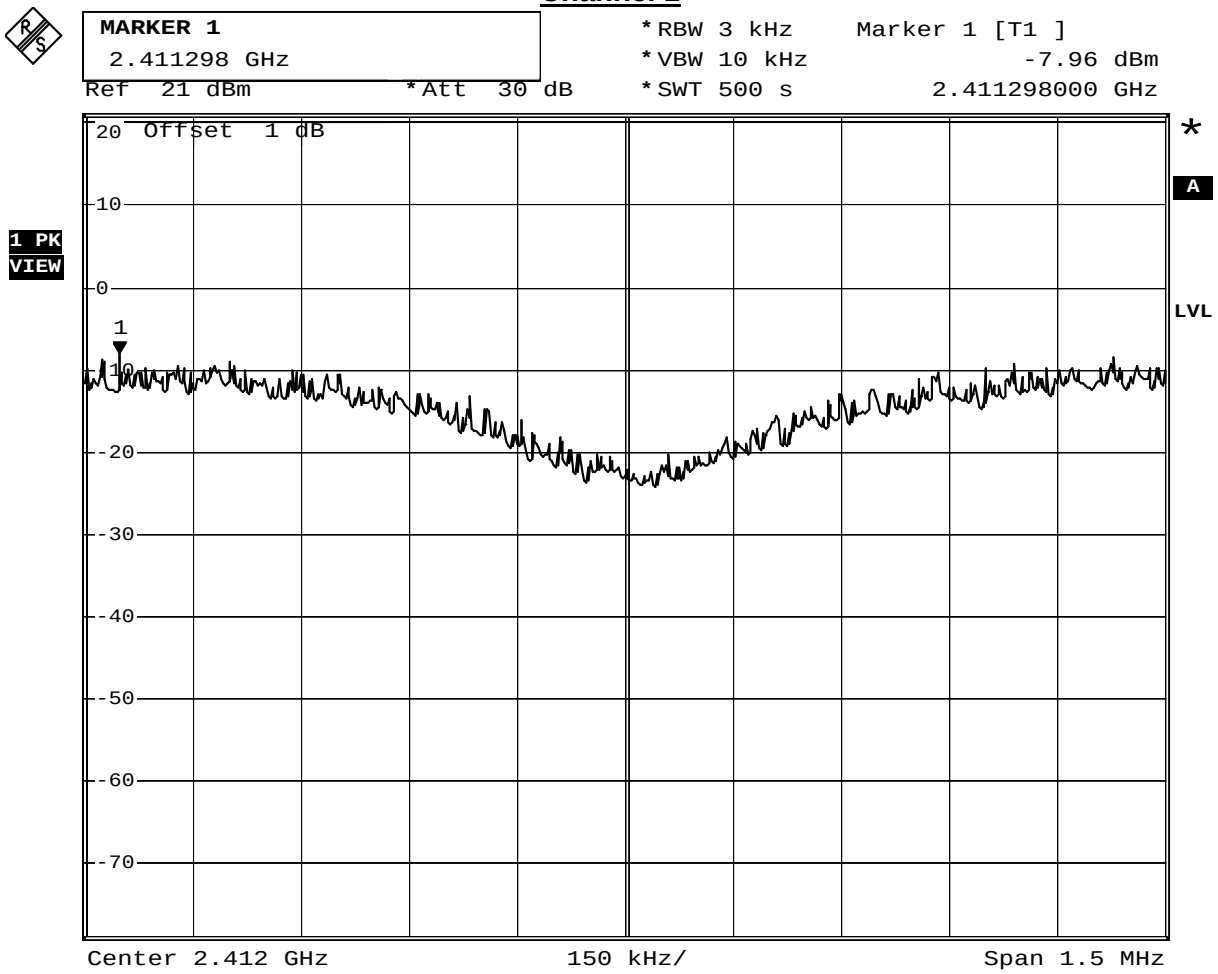
The measurement uncertainty is defined as ±1.27dB.

8.7. Test Result

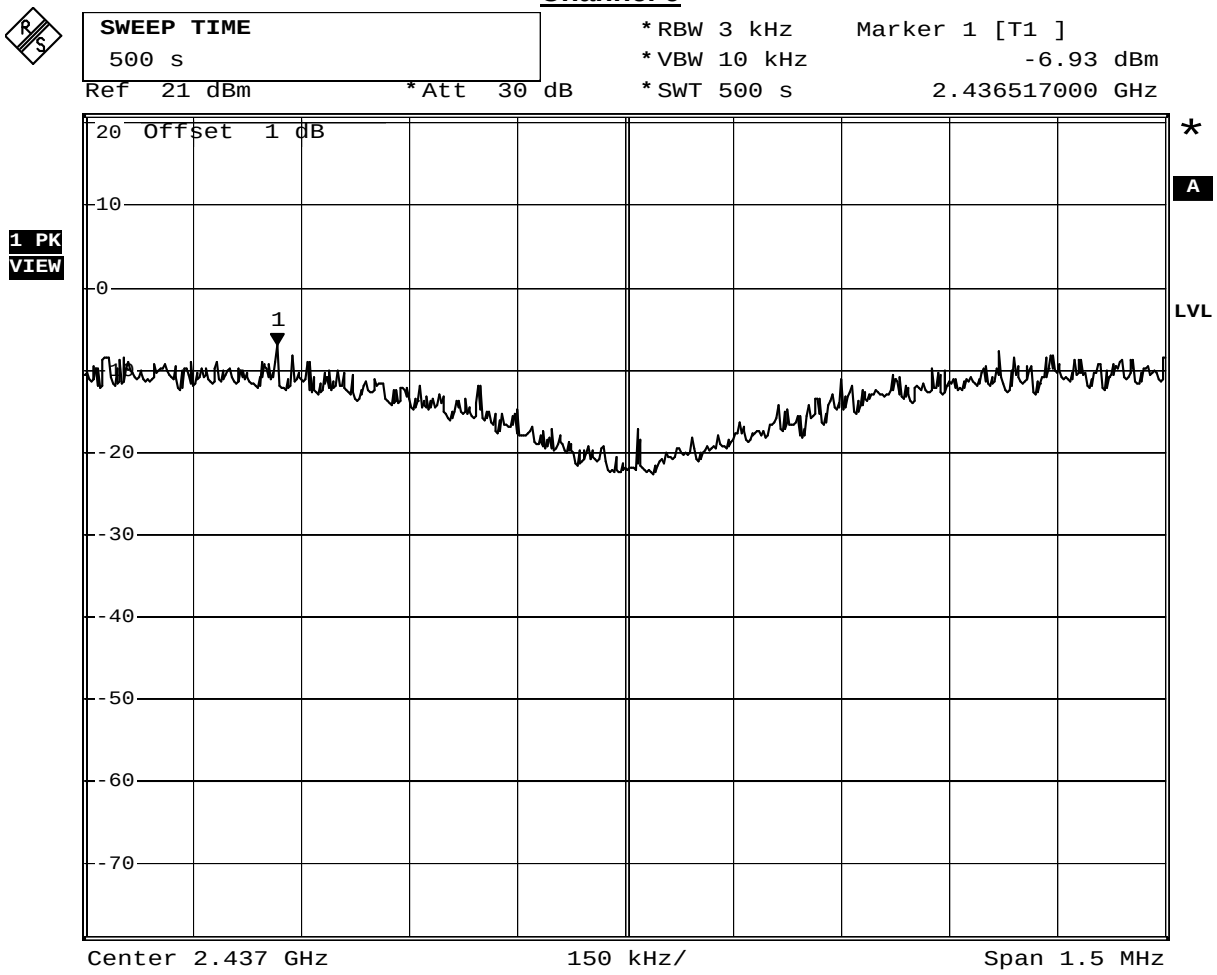
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-7.96	≦8	Pass
6	2437	-6.93	≦8	Pass
11	2462	-7.30	≦8	Pass

Channel 1

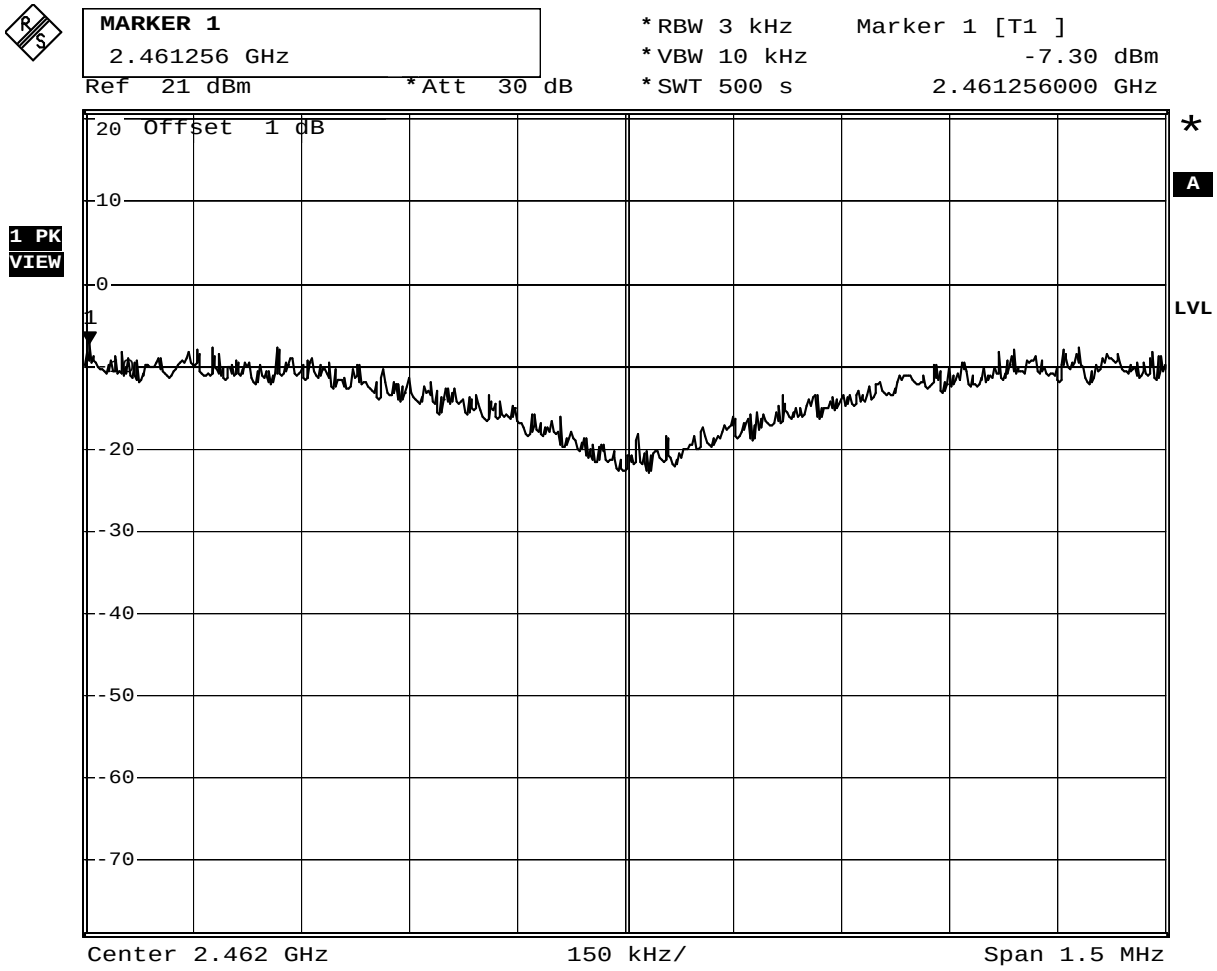


Channel 6



Date: 12.APR.2011 14:46:20

Channel 11

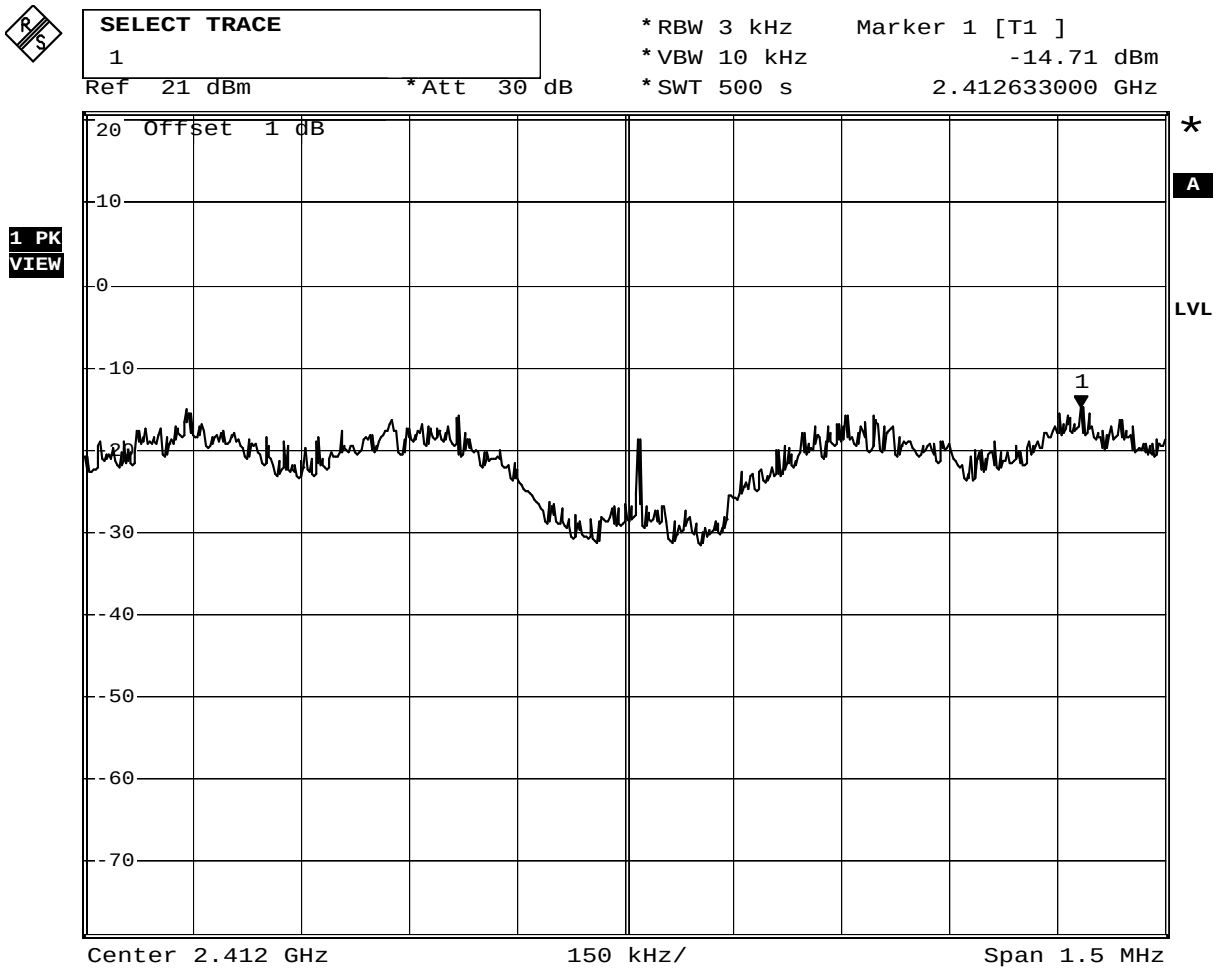


Date: 12.APR.2011 14:51:08

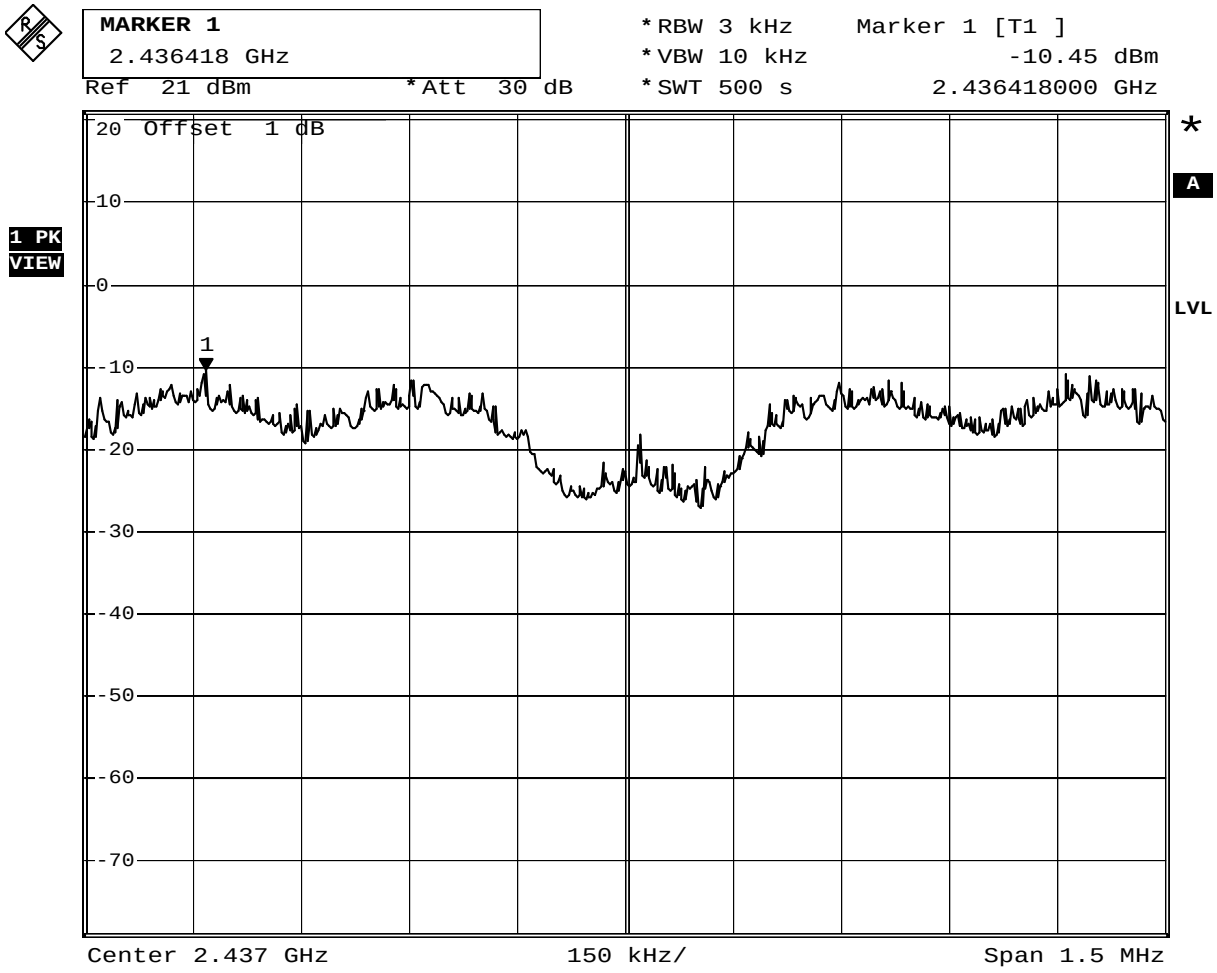
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-14.71	≦8	Pass
6	2437	-10.45	≦8	Pass
11	2462	-13.93	≦8	Pass

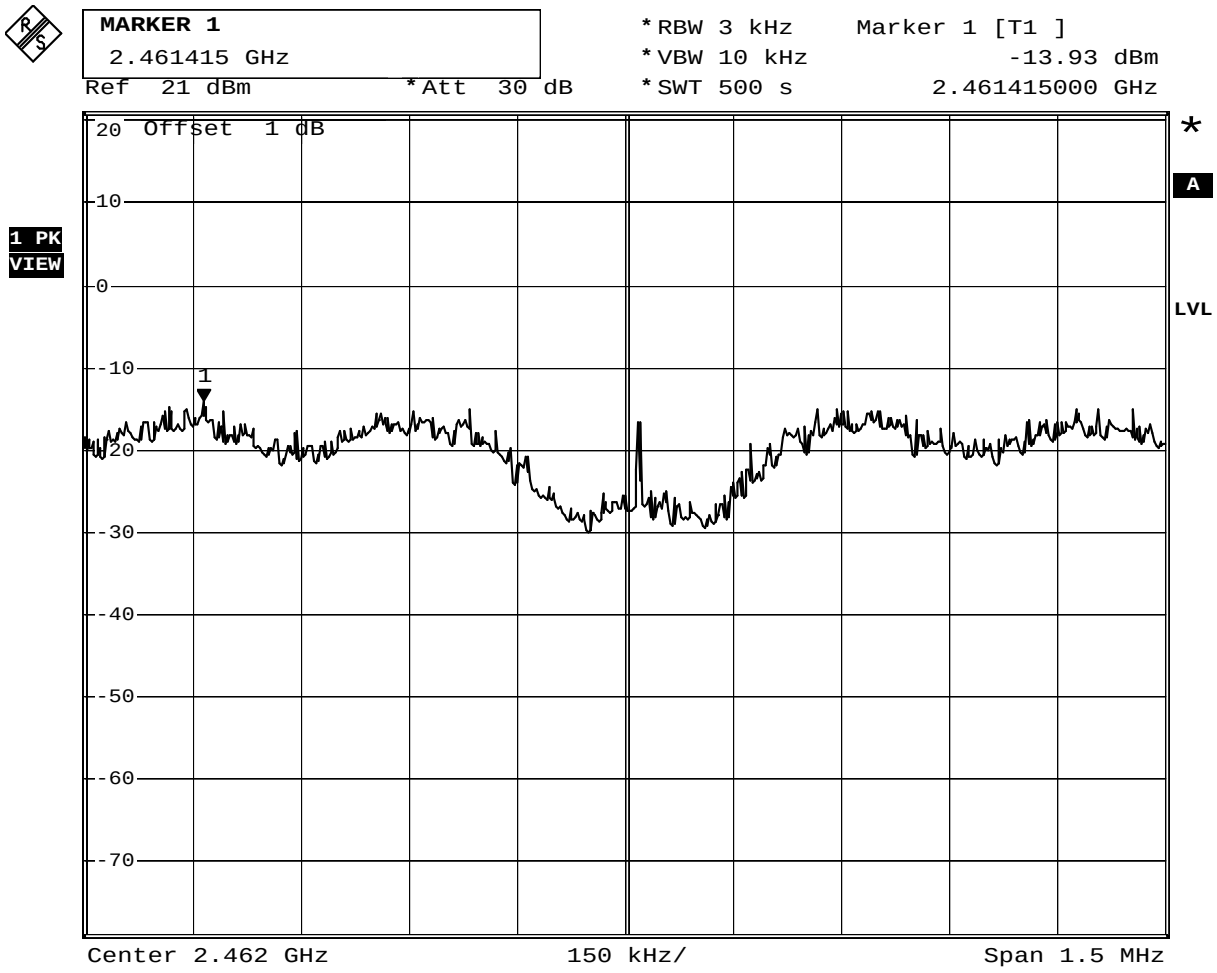
Channel 1



Channel 6


MARKER 1
2.436418 GHz
*RBW 3 kHz
*VBW 10 kHz
*SWT 500 s
Marker 1 [T1]
-10.45 dBm
2.436418000 GHz
Ref 21 dBm
*Att 30 dB
Offset 1 dB
1 PK
VIEW
A
LVL
20
10
0
-10
-20
-30
-40
-50
-60
-70
Center 2.437 GHz
150 kHz/
Span 1.5 MHz
Date: 13.APR.2011 20:46:34

Channel 11

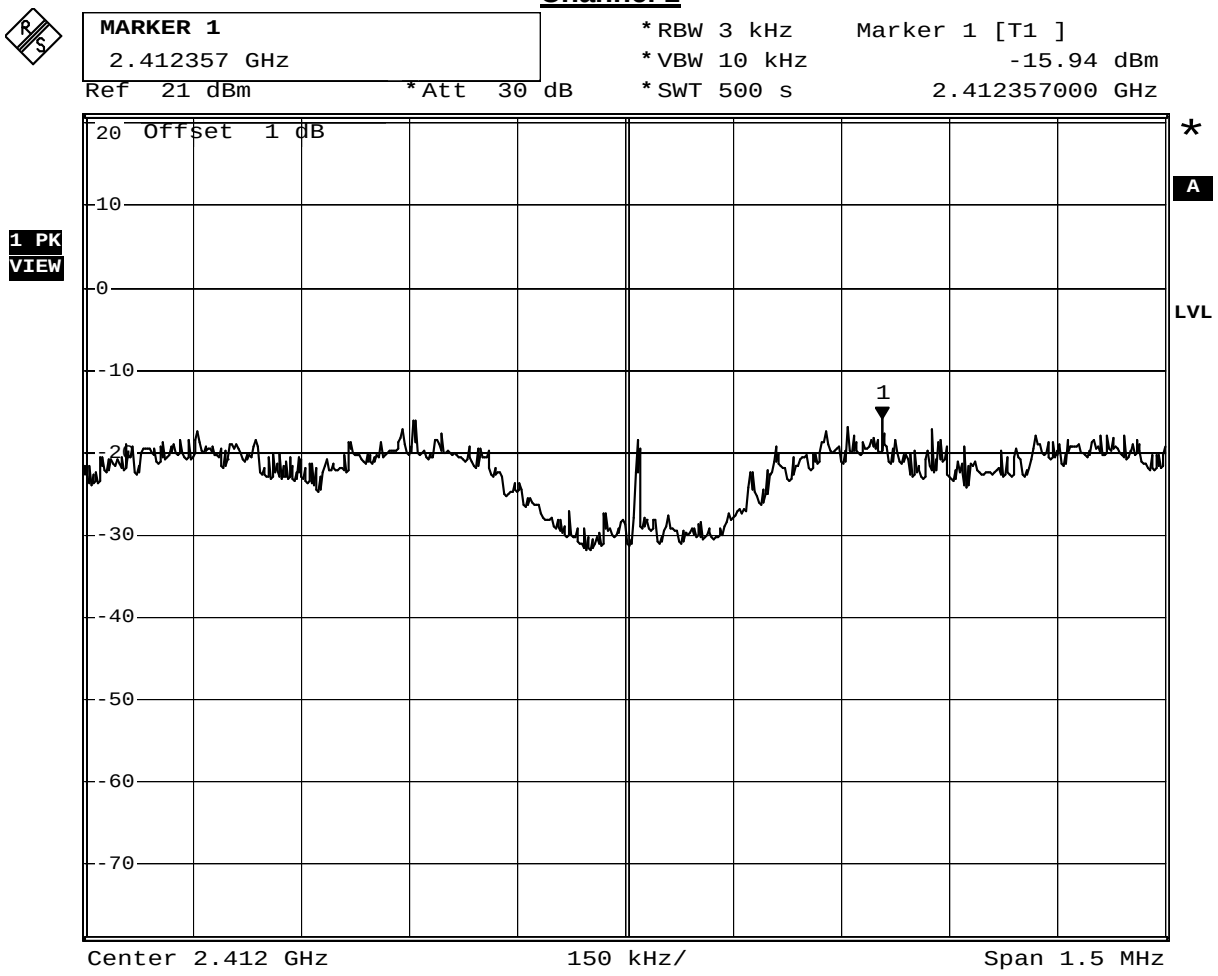


Date: 13.APR.2011 20:44:37

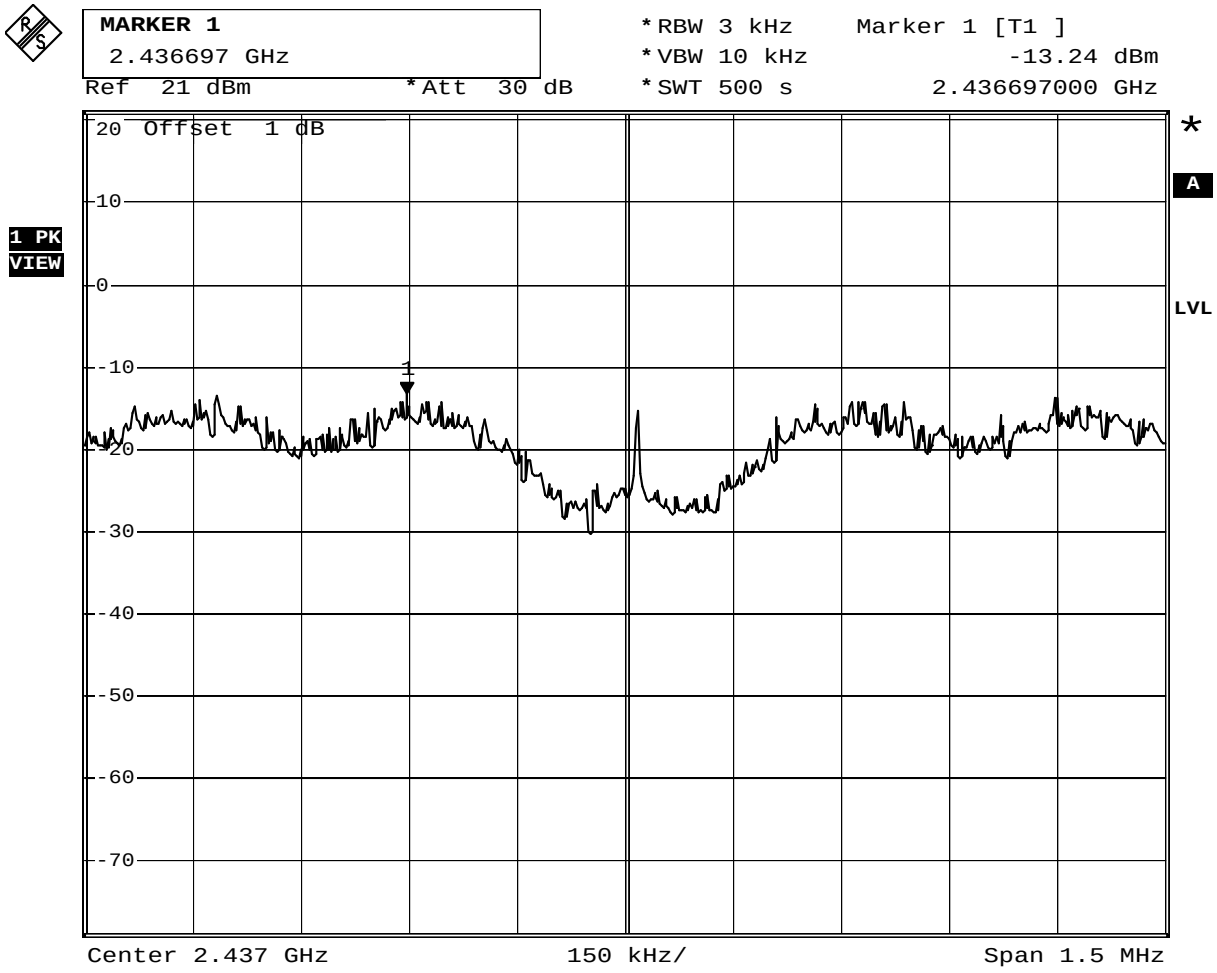
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE 802.11n (ANT A(20MHz))				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-15.94	≦8	Pass
6	2437	-13.24	≦8	Pass
11	2462	-15.31	≦8	Pass

Channel 1

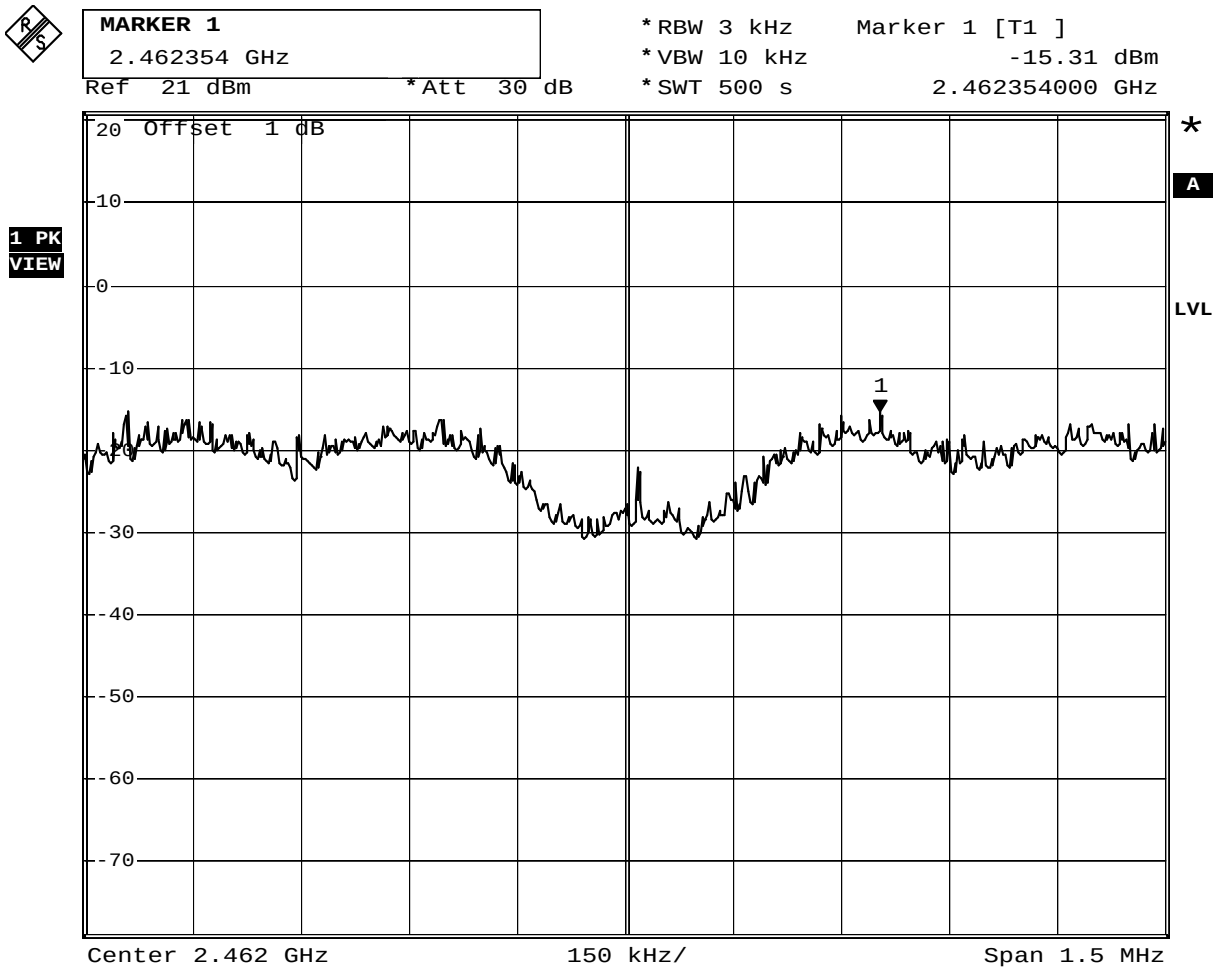


Channel 6



Date: 13.APR.2011 20:50:15

Channel 11

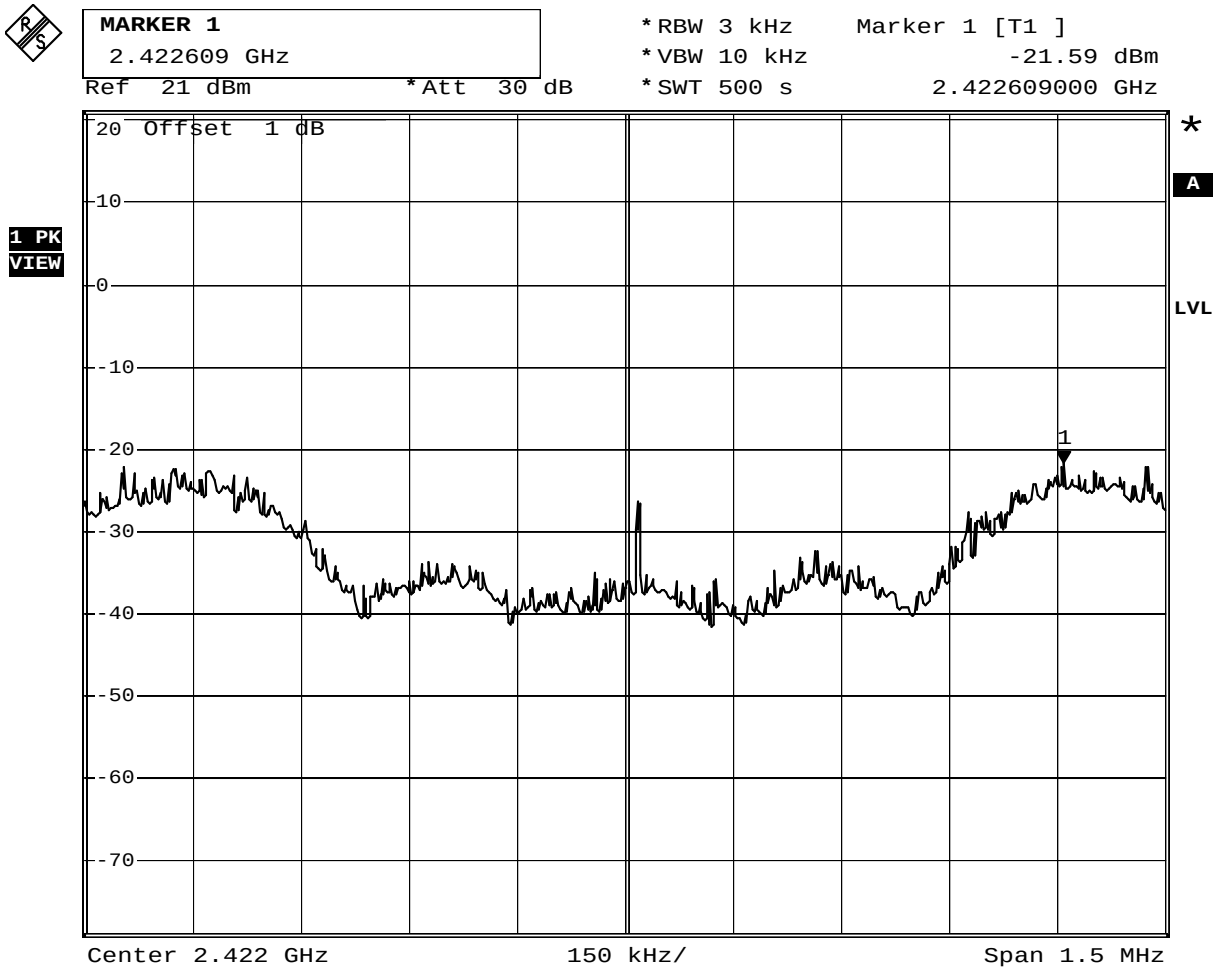


Date: 13.APR.2011 21:02:54

Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

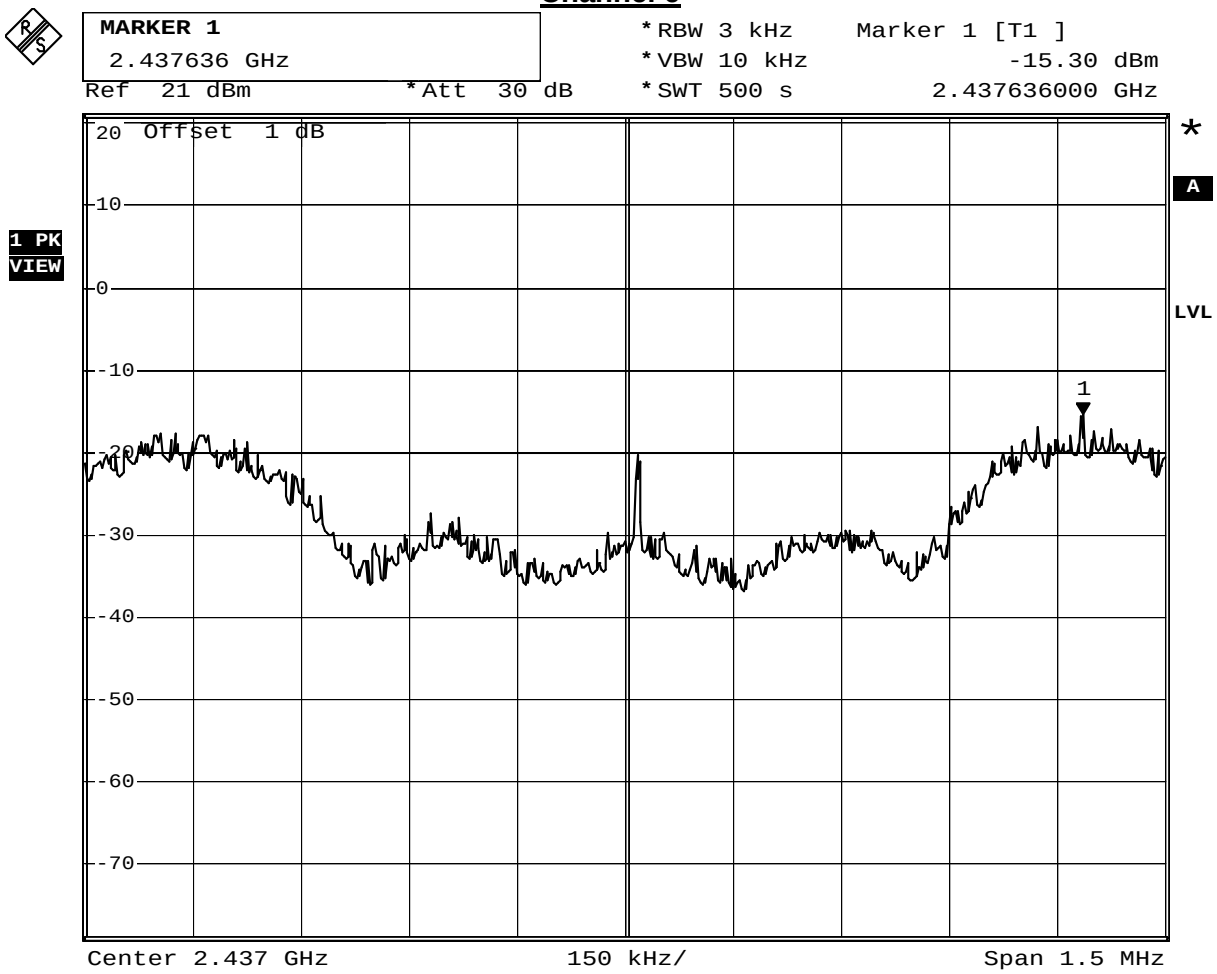
IEEE 802.11n(ANT A(40MHz))				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-21.59	≦8	Pass
6	2437	-15.30	≦8	Pass
9	2452	-20.65	≦8	Pass

Channel 3



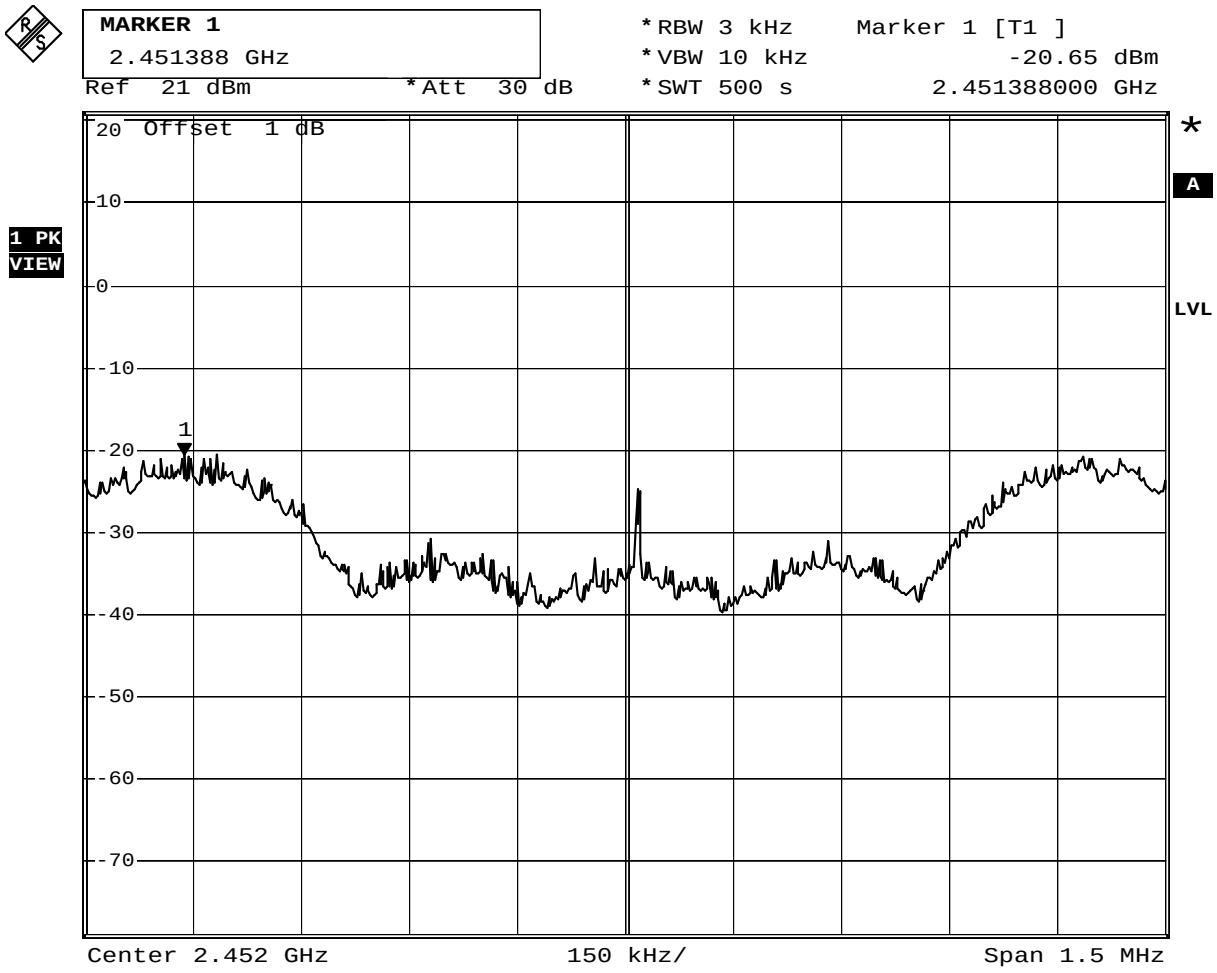
Date: 13.APR.2011 21:11:27

Channel 6



Date: 13.APR.2011 21:08:09

Channel 9

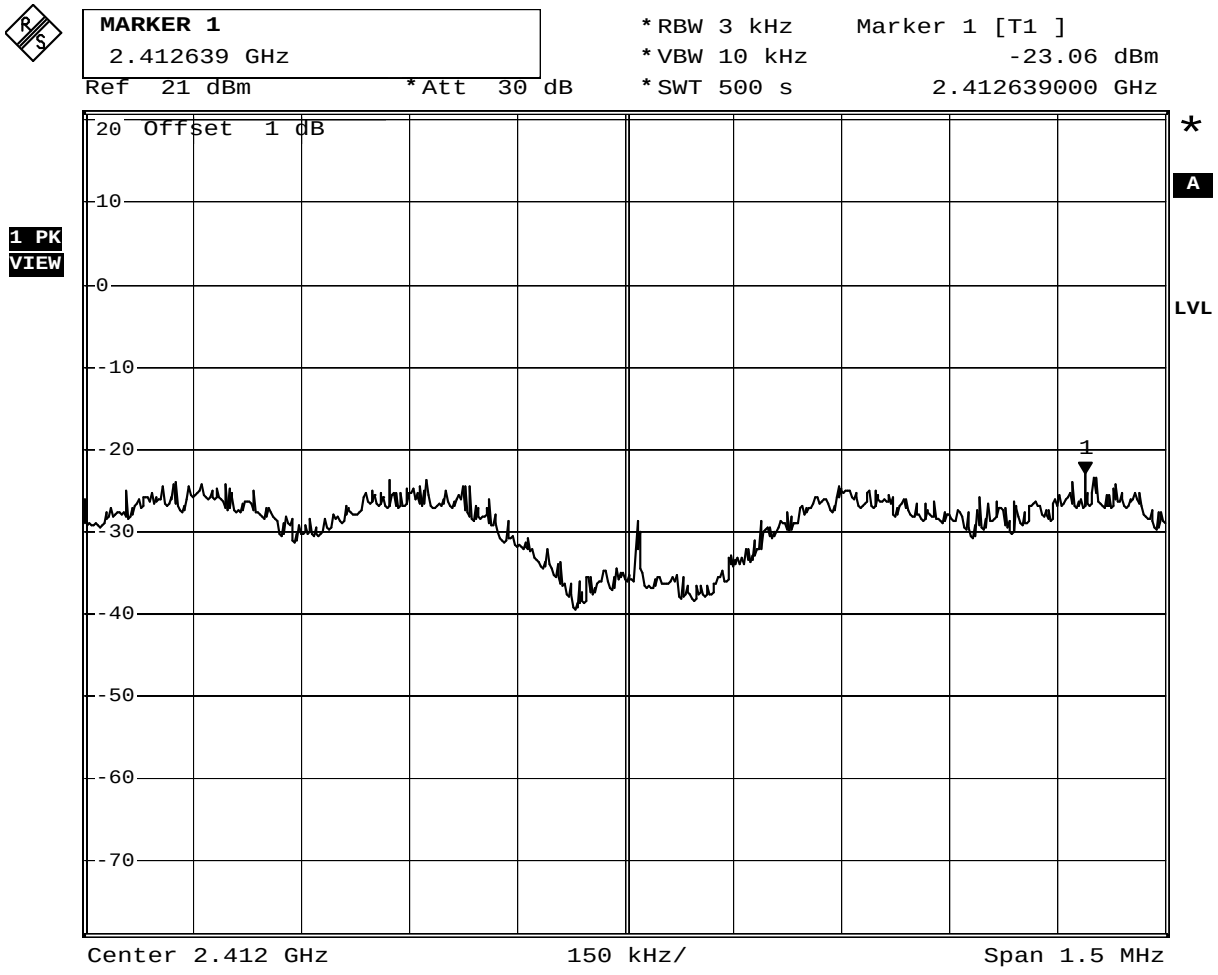


Date: 13.APR.2011 21:09:32

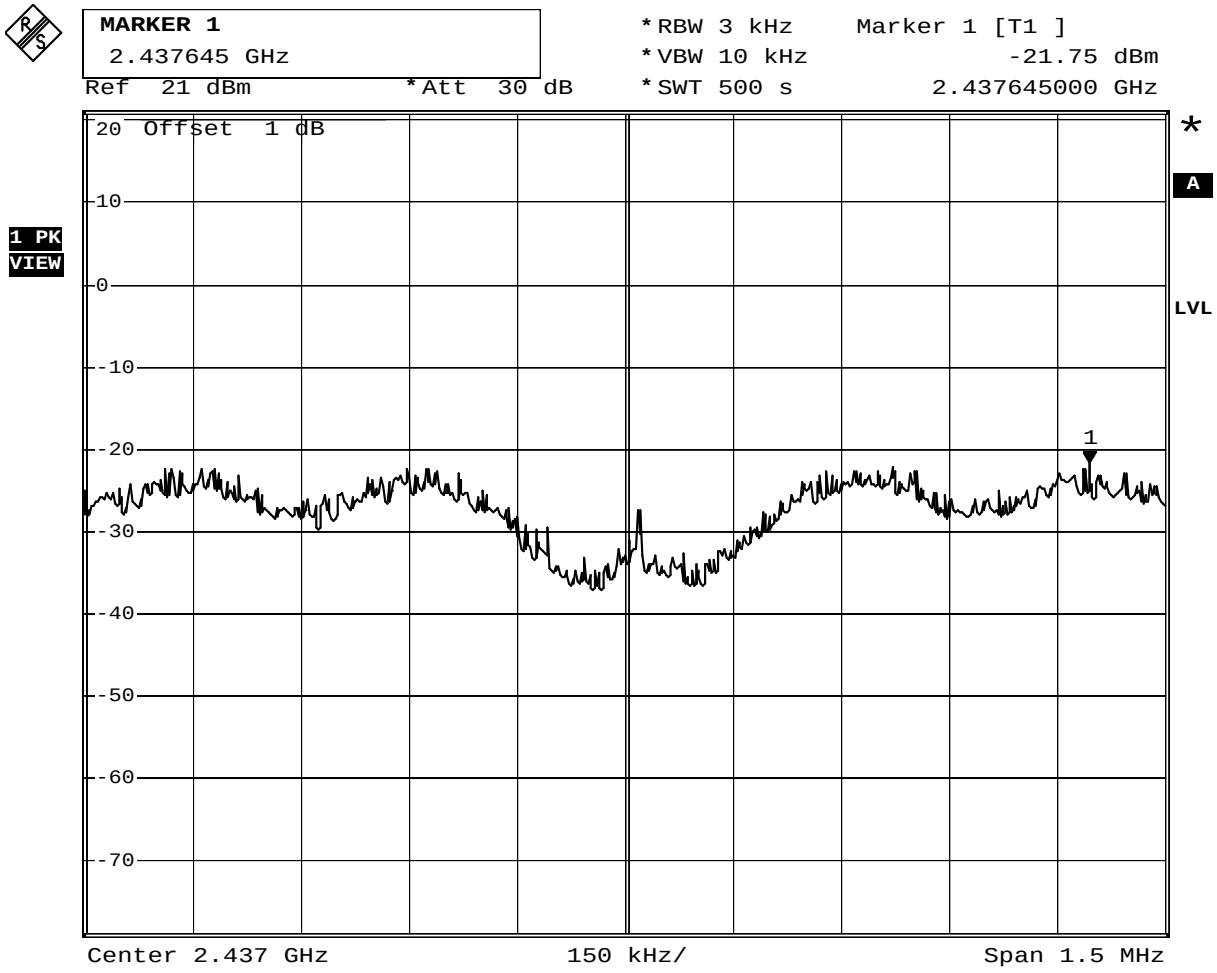
Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE 802.11n (ANT B(20MHz))				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-23.06	≦8	Pass
6	2437	-21.75	≦8	Pass
11	2462	-22.04	≦8	Pass

Channel 1

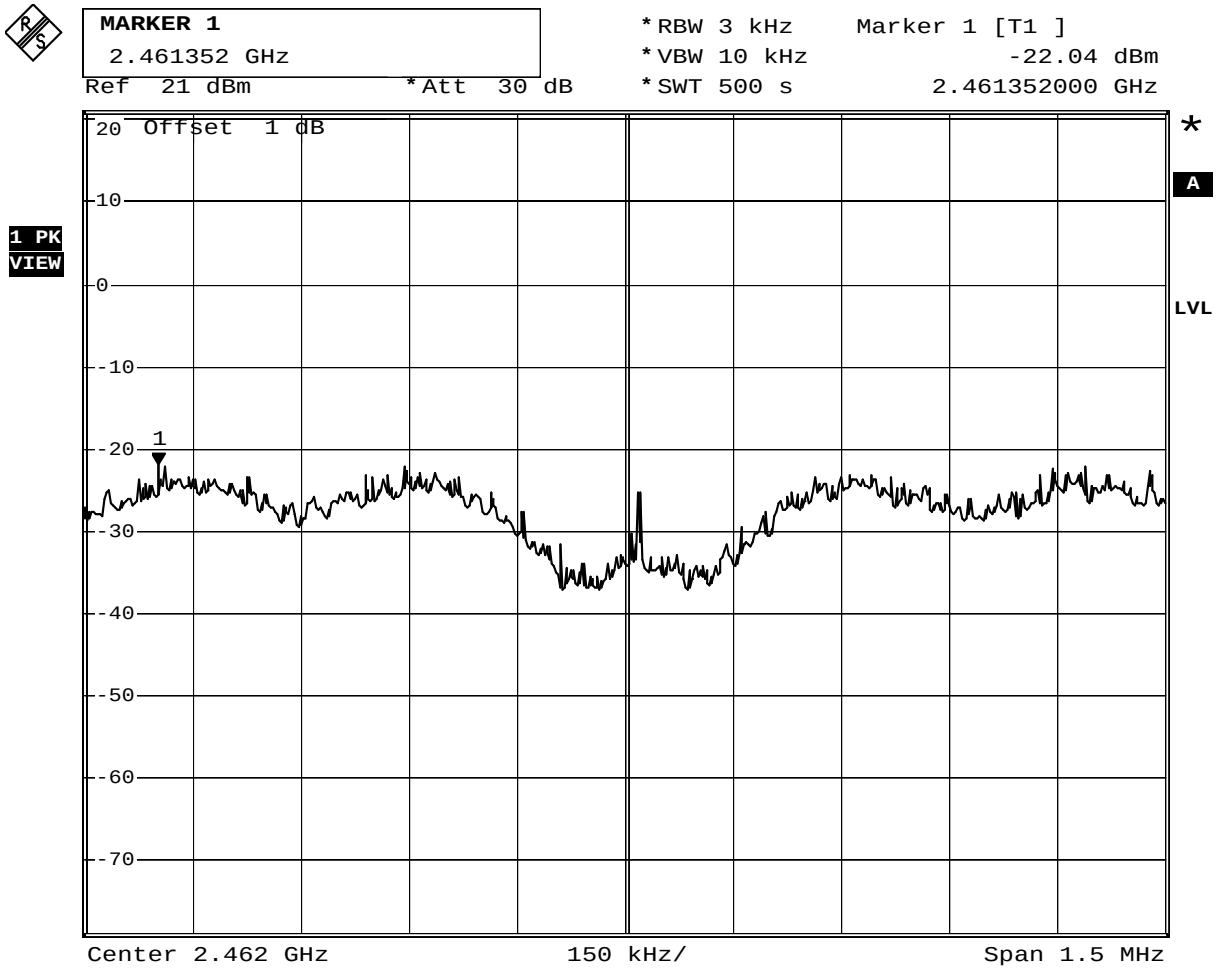


Channel 6



Date: 13.APR.2011 21:26:42

Channel 11

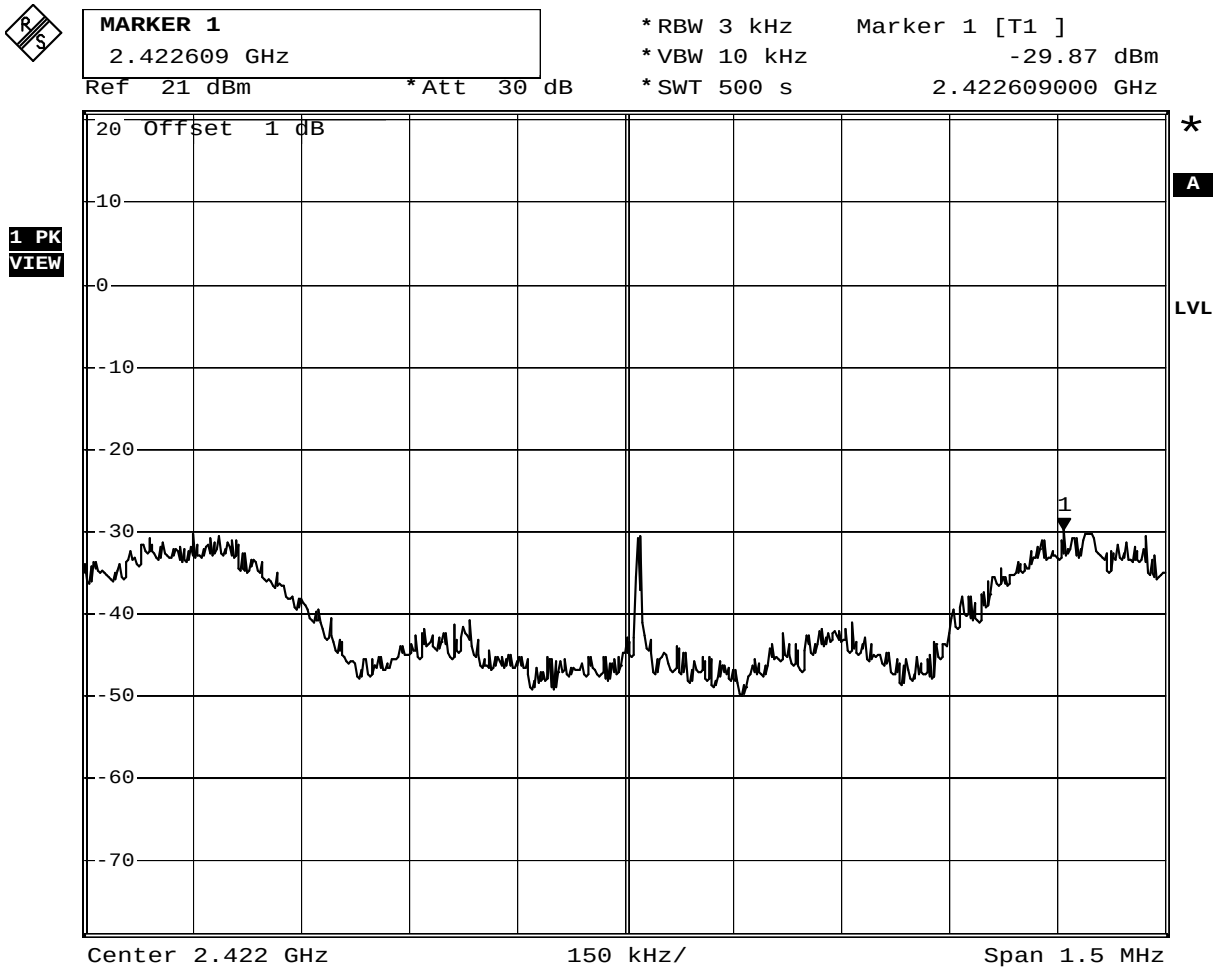


Date: 13.APR.2011 21:24:58

Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

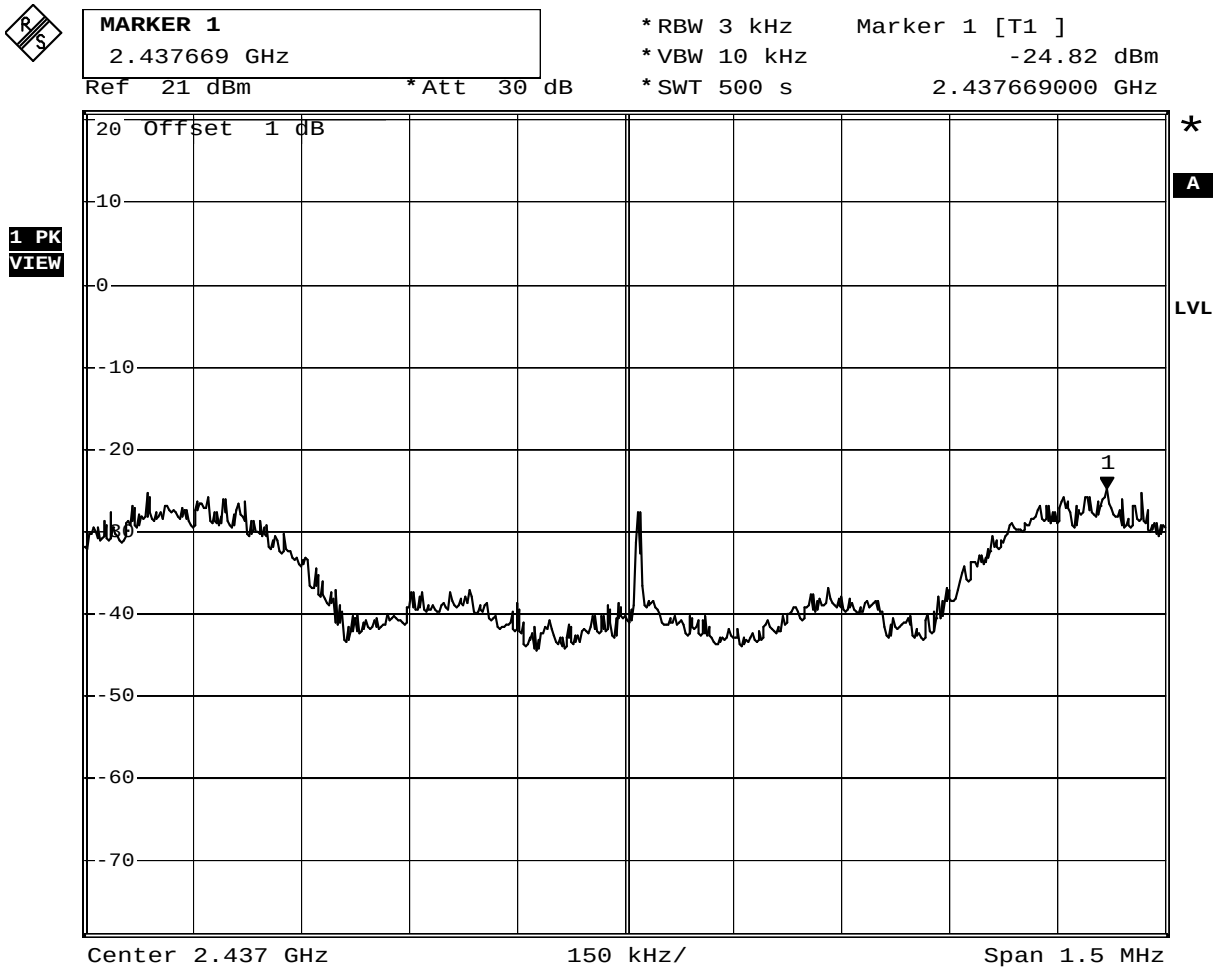
IEEE 802.11n(ANT B(40MHz))				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-29.87	≦8	Pass
6	2437	-24.82	≦8	Pass
9	2452	-27.30	≦8	Pass

Channel 3



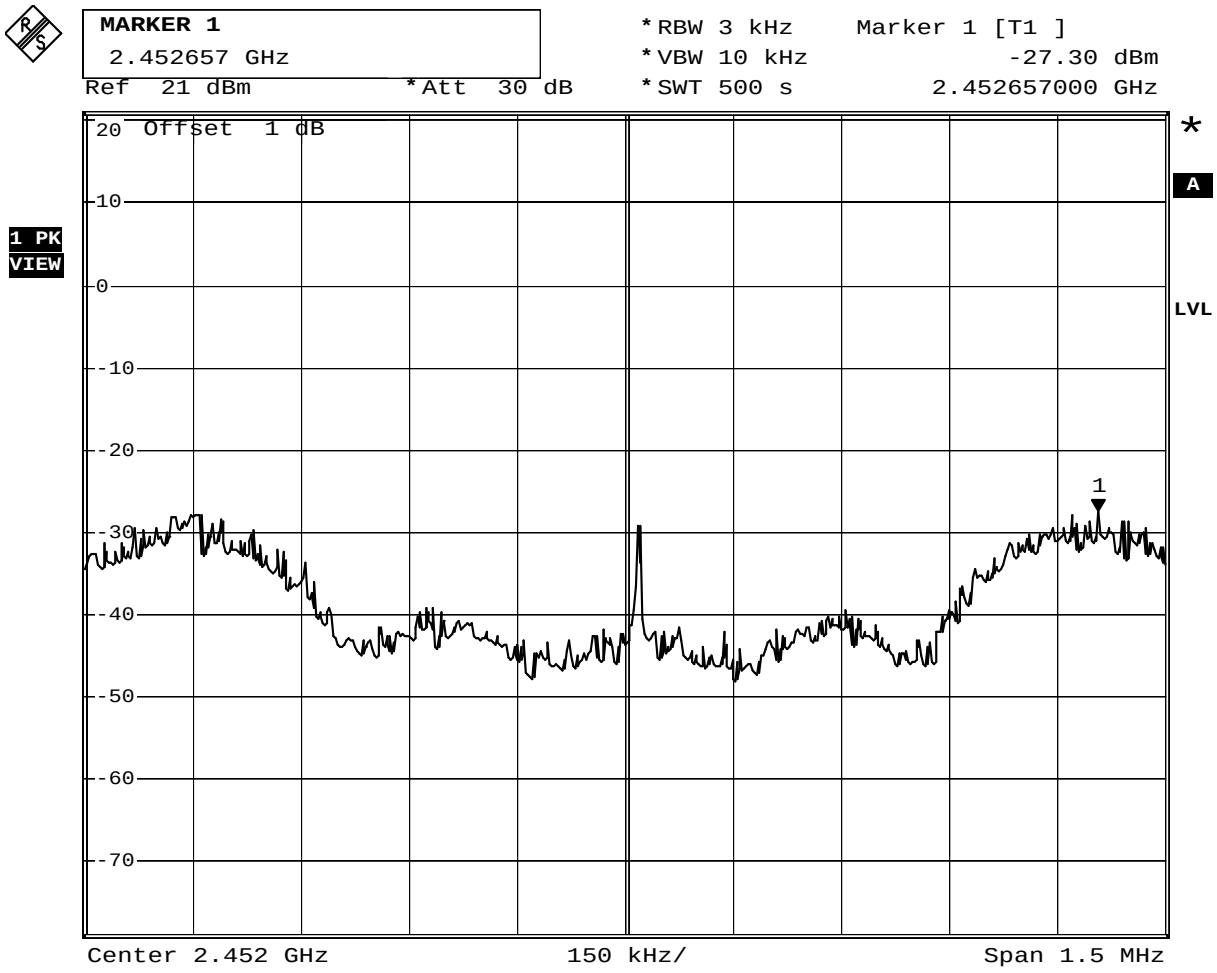
Date: 13.APR.2011 21:15:03

Channel 6



Date: 13.APR.2011 21:17:16

Channel 9



Date: 13.APR.2011 21:18:54

Product	Wireless 802.11n ADSL2/2+ 4-port Ethernet Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2011/04/13	Test Site	SR7

IEEE 802.11n (ANT A+B(20MHz))				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-15.17	≦8	Pass
6	2437	-12.67	≦8	Pass
11	2462	-14.47	≦8	Pass

IEEE 802.11n (ANT A+B(40MHz))				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-20/99	≦8	Pass
6	2437	-14.84	≦8	Pass
9	2452	-19.80	≦8	Pass