FCC TEST REPORT

According to

FCC CFR Title 47 Part 15 Subpart C

Applicant	:	ZyXEL Communications Corp.
Address	:	6 innovation RD II, science park, hsinchu 300, TaiWan
Manufacturer(1)	:	ZyXEL Communications Corp.
Address(1)	:	6 innovation RD II, science park, hsinchu 300, TaiWan
Manufacturer(2)	:	ZyXEL Communications(Wuxi) Co Ltd.
Address(2)	:	60 – E, Minshan RD, New District, Wuxi, Jiangsu, P.R. China
Equipment	:	Wireless router with VDSL2/ADSL broadband access
Model No.	:	P-870HNP-51b, P-870HNUP-51b, 5Vz. A2011xxx(xxx means A~Z)
FCC ID	:	I88-5VZ-A2011

Table of Contents

Document history

Attachment No.	Date	Description
SEFI1004113	May 13, 2010	First issue

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I **HEREBY** CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4 – 2003** and the energy emitted by this equipment was ***passed*** **CISPR PUB. 22 and FCC Part 15** in both radiated and conducted emission class B limits. Testing was carried out on May 10, 2010 at ***Cerpass Technology Corp.***

Documented By: Approved By:

Cathy Chen/ Administration John Wang/ Technical director

1. Report of Measurements and Examinations

FCC CFR Title 47 Part 15 Subpart C: 2007 ANSI C63.4: 2003			
Clause	Test Parameter	Test Performed	Remark
15.207	Conducted Emission	YES	PASS
15.209	Radiated Emission	YES	PASS
15.247(a) 15.215(c)	Occupied Bandwidth	YES	PASS
15.247(b)	Maximum Peak Output Power	YES	PASS
15.247(d)	Band Edges	YES	PASS
15.247(d)	Power Spectral Density	YES	PASS

2. Test Configuration of Equipment under Test

2.1. Feature of Equipment under Test

Wireless router with VDSL2/ADSL broadband access	Model No：	P-870HNP-51b, P-870HNUP-51b, 5Vz. A2011xxx(xxx means A~Z)
I.T.E POWER SUPPLY	Manufacturer:	LEI
	Model No.:	NU18-4120150-13
	Input:	100-240V~50/60Hz 0.5A
	Output:	12V⎓1.5A
DC Cable	Non-Shielded, 1.5m	
Remark	They are identical except the model name. This is only to satisfy the different requirements of the client. **P-870HNP-51b** was selected as the test model and its data have been recorded in this report.	

WLAN	Broadcom/BCM43222
Spreading	802.11b: DSSS 802.11g / n: OFDM
Frequency Range	802.11b/g/n(20MHz): 2412-2462MHz 802.11n(40MHz): 2422-2452MHz
Number of Channels	802.11b/g/n (20MHz):11 802.11n (40MHz): 7
Data Rate	802.11b: 11, 5.5, 2, 1 Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps 802.11n: up to 300Mbps
Antenna Type	Dipole antenna
Antenna Gain	Ant0: C034-510748-A/1.8dBi; Ant1: C034-510697-A/2.0dBi;

2.2. Carrier Frequency of Channels

802.11b, 802.11g, 802.11n (20MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	11	2462
06	2437	---	---

802.11n (40MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
---	---	07	2442
---	---	08	2447
03	2422	09	2452
04	2427	---	---
05	2432	---	---
06	2437	---	---

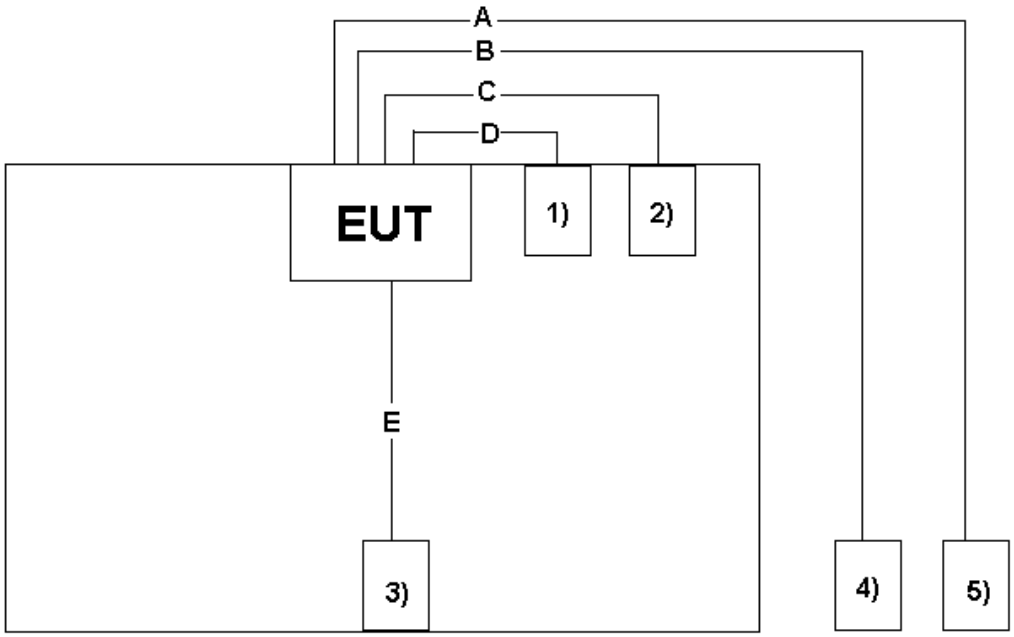
2.3. Test Manner

Test Manner	
a	During testing, the interface cables and equipment positions were varied according to 47 CFR, Part 2, Part 15
b	The complete test system included HUB, IPOD, PC, IP Express and EUT for RF test.
c	During the test, connect the EUT and HUB, IPOD, PC, IP Express.
d	Adjust the EUT at the test mode and the channel. Then test.
The test modes:	
	Mode 1: Transmit by 802.11b (An0)
	Mode 2: Transmit by 802.11g (An0)
	Mode 3: Transmit by 802.11n (20MHz) (An0 and An1)
	Mode 4: Transmit by 802.11n (40MHz) (An0 and An1)

2.4. Description of Test System

No.	Device	Manufacturer	Model No.	Description
1	HUB	D-Link	DI-504	N/A
2	IPOD	Apple	MA477TA/A	N/A
3	PC	Dell	DCTA	N/A
4	IP Express	Zyxel	IES-1248-71	N/A

2.5. Connection Diagram of Test System



Use Cable

No.	Cable	Quantity	Description
A	Telephone Cable	1	Non-Shielded, >10m
B	LAN Cable	1	Non-Shielded, >10m
C	BNC Cable	1	Shielded, 2.0m
D	LAN Cable	4	Non-Shielded, 1.5m
E	USB Cable	1	Shielded, 1.2m

2.6. General Information of Test

Test Site:	Cerpass Technology Corp.
Performand Location :	No.66,Tangzhuang Road, Suzhou Industrial Park, Jiangsu 215006, China
NVLAP LAB Code :	200814-0
FCC Registration Number :	916572
IC Registration Number :	7290A-1
VCCI Registration Number :	T-343 for Telecommunication Test C-2919 for Conducted emission test R-2670 for Radiated emission test

Laboratory accreditation

2.7. Measurement Uncertainty

Measurement Item	Measurement Frequency	Polarization	Uncertainty
Conducted Emission	9 kHz ~ 30 MHz	LINE/NEUTRAL	±2.71 dB
Radiated Emission	30 MHz ~ 25GHz	Vertical	±4.11 dB
		Horizontal	±4.10 dB
Occupied Bandwidth	---	---	±7500 Hz
Maximum Peak Output Power	---	---	±1.4 dB
Band Edges	---	---	±2.2 dB
Power Spectral Density	---	---	±2.2 dB

3. Test of Conducted Emission

3.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

*Decreases with the logarithm of the frequency.

3.2. Test Procedures

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

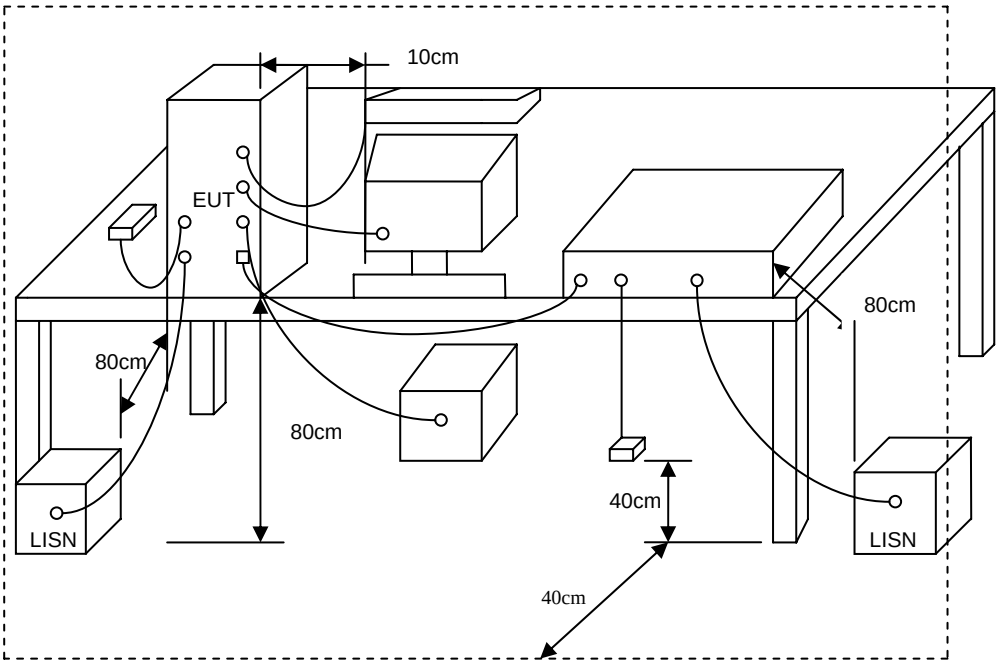
The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.3. Typical Test Setup

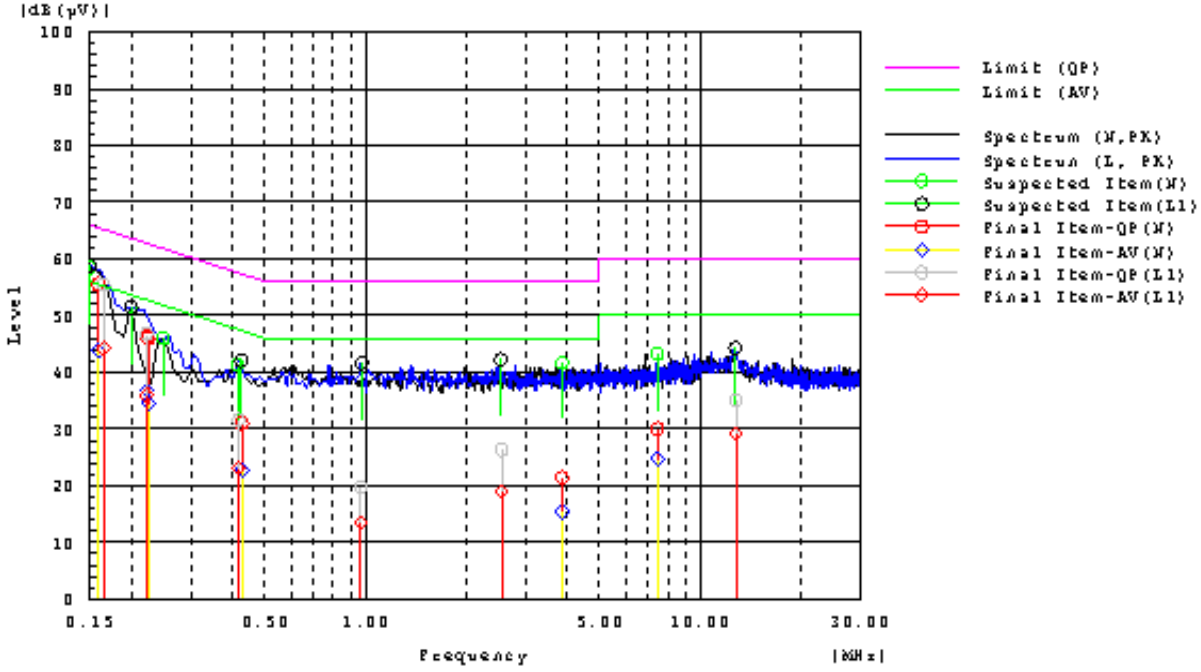


3.4. Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date
EMC Emission Tester	EMCPARTNER	Harmonics-1000	159	2009.09.08
Test Receiver	R&S	ESCI	100565	2010.01.15
AMN	R&S	ESH2-Z5	100182	2009.06.23
Two-Line V-Network	R&S	ENV216	100325	2009.06.23
ISN	FCC	FCC-TLISN-T2-02	20379	2009.06.23
ISN	FCC	FCC-TLISN-T4-02	20380	2009.06.23
ISN	FCC	FCC-TLISN-T8-02	20381	2009.06.23
Attenuator	R&S	ESH3-Z2	100529	2010.01.11
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-004	2009.10.19

3.5. Test Result and Data

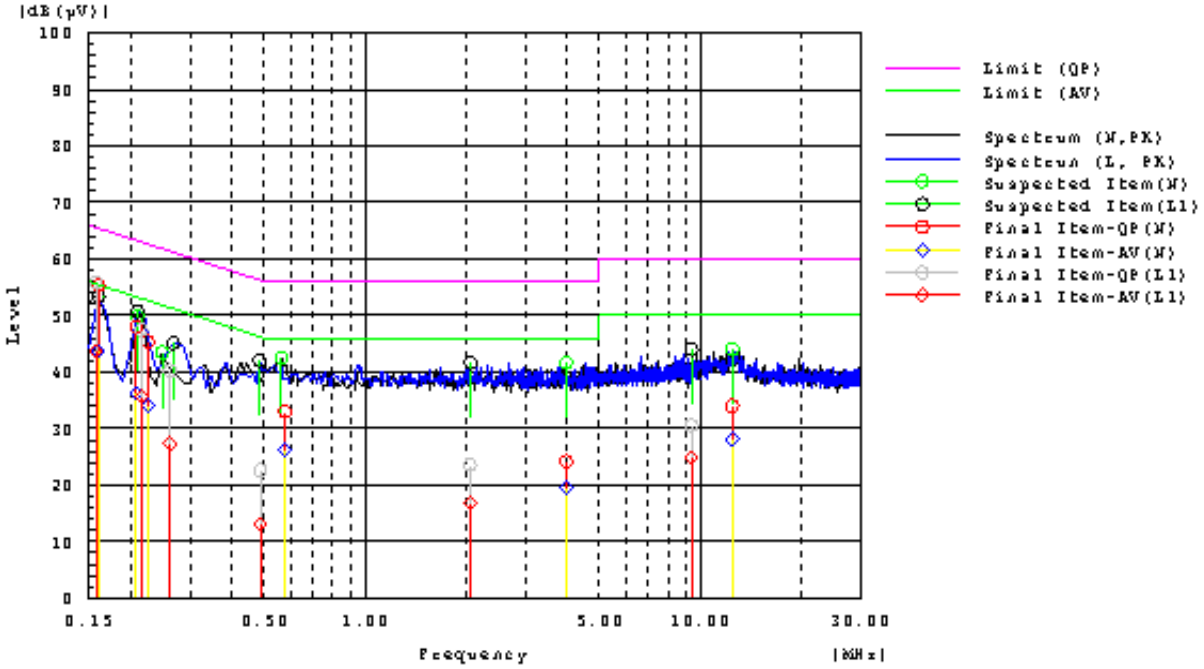
Test Mode :	Mode 1: Transmit by 802.11b (An0) (2437MHz)		
AC Power :	AC 120V/60Hz	Phase :	L&N
Temperature :	18°C	Humidity:	57%
Pressur(mbar) :	1002	Date:	2010/05/07



Frequency MHz	Line Phase	Reading dB(uV) QP	Reading dB(uV) AV	Factor dB	Level dB(uV) QP	Level dB(uV) AV	Limit dB(uV) QP	Limit dB(uV) AV	Margin dB QP	Margin dB AV	Pass/Fail
0.16494	L1	35.5	24.3	19.9	55.4	44.2	65.2	55.2	9.8	11.0	Pass
0.22149	L1	26.9	16.0	19.9	46.8	35.9	62.8	52.8	16.0	16.9	Pass
0.41656	L1	11.7	3.1	19.9	31.6	23.0	57.5	47.5	25.9	24.5	Pass
0.9681	L1	0.0	-6.4	19.8	19.8	13.4	56.0	46.0	36.2	32.6	Pass
2.54959	L1	6.6	-0.7	19.7	26.3	19.0	56.0	46.0	29.7	27.0	Pass
12.7792	L1	15.2	9.3	19.8	35.0	29.1	60.0	50.0	25.0	20.9	Pass
0.15854	N	36.0	24.3	19.5	55.5	43.8	65.5	55.5	10.0	11.7	Pass
0.22159	N	26.8	17.2	19.5	46.3	36.7	62.8	52.8	16.5	16.1	Pass
0.22382	N	26.5	15.0	19.5	46.0	34.5	62.7	52.7	16.7	18.2	Pass
3.86442	N	1.9	-4.2	19.6	21.5	15.4	56.0	46.0	34.5	30.6	Pass
7.4402	N	10.3	5.0	19.7	30.0	24.7	60.0	50.0	30.0	25.3	Pass
0.42664	N	11.5	3.3	19.5	31.0	22.8	57.3	47.3	26.3	24.5	Pass

Note: Measurement Level = Reading Level + Correct Factor

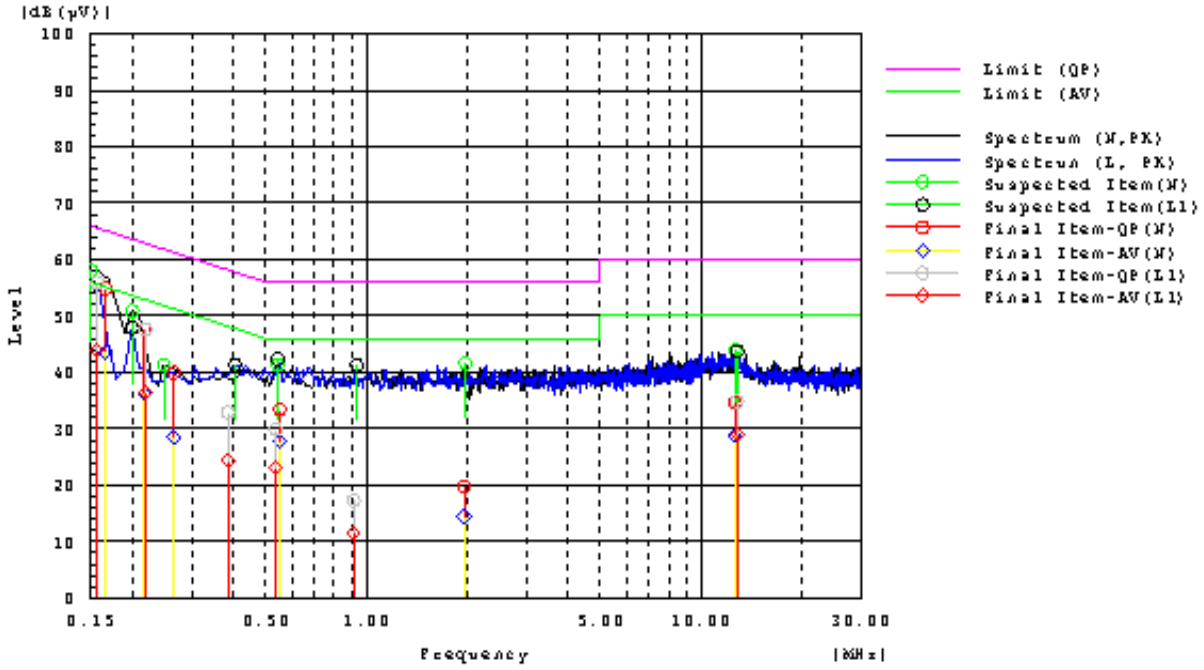
Test Mode :	Mode 2: Transmit by 802.11g (An0) (2437MHz)		
AC Power :	AC 120V/60Hz	Phase :	L&N
Temperature :	18°C	Humidity:	57%
Pressur(mbar) :	1002	Date:	2010/05/07



Frequency MHz	Line Phase	Reading dB(uV) QP	Reading dB(uV) AV	Factor dB	Level dB(uV) QP	Level dB(uV) AV	Limit dB(uV) QP	Limit dB(uV) AV	Margin dB QP	Margin dB AV	Pass/Fail
0.15727	L1	35.9	23.7	19.9	55.8	43.6	65.6	55.6	9.8	12.0	Pass
0.21509	L1	27.6	15.7	19.9	47.5	35.6	63.0	53.0	15.5	17.4	Pass
0.26116	L1	20.4	7.4	19.9	40.3	27.3	61.4	51.4	21.1	24.1	Pass
0.4863	L1	2.7	-6.9	19.9	22.6	13.0	56.2	46.2	33.6	33.2	Pass
2.05363	L1	3.9	-2.8	19.7	23.6	16.9	56.0	46.0	32.4	29.1	Pass
9.389	L1	10.9	5.3	19.7	30.6	25.0	60.0	50.0	29.4	25.0	Pass
0.16019	N	35.8	24.2	19.5	55.3	43.7	65.5	55.5	10.2	11.8	Pass
0.20781	N	28.5	16.7	19.5	48.0	36.2	63.3	53.3	15.3	17.1	Pass
0.57593	N	13.5	6.9	19.5	33.0	26.4	56.0	46.0	23.0	19.6	Pass
12.4296	N	14.1	8.3	19.9	34.0	28.2	60.0	50.0	26.0	21.8	Pass
3.97762	N	4.6	-0.1	19.6	24.2	19.5	56.0	46.0	31.8	26.5	Pass
0.22469	N	25.9	14.7	19.5	45.4	34.2	62.6	52.6	17.2	18.4	Pass

Note: Measurement Level = Reading Level + Correct Factor

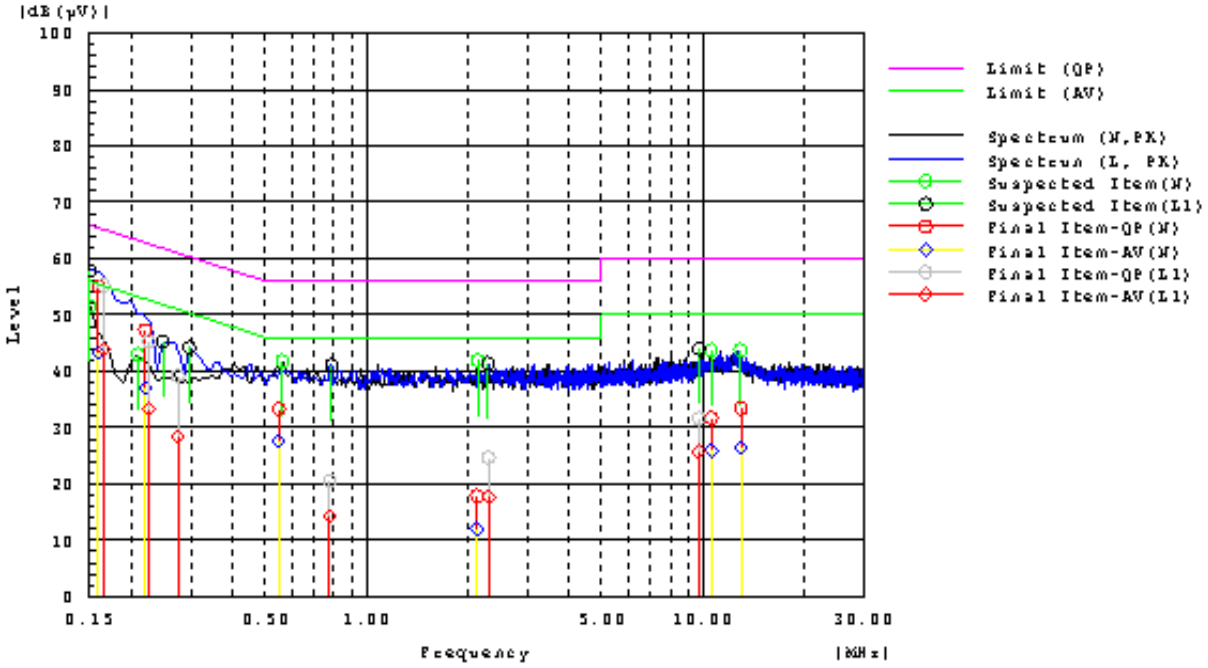
Test Mode :	Mode 3: Transmit by 802.11n(20MHz) (An0 and An1) (2437MHz)		
AC Power :	AC 120V/60Hz	Phase :	L&N
Temperature :	18°C	Humidity:	57%
Pressur(mbar) :	1002	Date:	2010/05/07



Frequency MHz	Line Phase	Reading dB(uV) QP	Reading dB(uV) AV	Factor dB	Level dB(uV) QP	Level dB(uV) AV	Limit dB(uV) QP	Limit dB(uV) AV	Margin dB QP	Margin dB AV	Pass/Fail
0.15638	L1	36.0	24.1	19.9	55.9	44.0	65.7	55.7	9.8	11.7	Pass
0.21811	L1	27.7	16.5	19.9	47.6	36.4	62.9	52.9	15.3	16.5	Pass
0.53509	L1	10.1	3.3	19.8	29.9	23.1	56.0	46.0	26.1	22.9	Pass
12.7968	L1	15.0	9.2	19.8	34.8	29.0	60.0	50.0	25.2	21.0	Pass
0.91514	L1	-2.5	-8.2	19.8	17.3	11.6	56.0	46.0	38.7	34.4	Pass
0.38484	L1	13.0	4.4	19.9	32.9	24.3	58.2	48.2	25.3	23.9	Pass
0.1661	N	35.3	24.1	19.5	54.8	43.6	65.2	55.2	10.4	11.6	Pass
0.21703	N	28.1	16.9	19.5	47.6	36.4	62.9	52.9	15.3	16.5	Pass
1.95595	N	0.2	-5.0	19.5	19.7	14.5	56.0	46.0	36.3	31.5	Pass
0.55061	N	13.9	8.3	19.5	33.4	27.8	56.0	46.0	22.6	18.2	Pass
12.6256	N	14.7	8.9	19.9	34.6	28.8	60.0	50.0	25.4	21.2	Pass
0.26504	N	20.4	9.0	19.5	39.9	28.5	61.3	51.3	21.4	22.8	Pass

Note: Measurement Level = Reading Level + Correct Factor

Test Mode :	Mode 4: Transmit by 802.11 n40MHz）(An0 and An1) (2437MHz)		
AC Power :	AC 120V/60Hz	Phase :	L&N
Temperature :	18°C	Humidity:	57%
Pressur(mbar) :	1002	Date:	2010/05/07



Frequency MHz	Line Phase	Reading dB(uV) QP	Reading dB(uV) AV	Factor dB	Level dB(uV) QP	Level dB(uV) AV	Limit dB(uV) QP	Limit dB(uV) AV	Margin dB QP	Margin dB AV	Pass/Fail
0.16542	L1	35.4	24.0	19.9	55.3	43.9	65.2	55.2	9.9	11.3	Pass
0.22508	L1	25.4	13.4	19.9	45.3	33.3	62.6	52.6	17.3	19.3	Pass
0.27484	L1	19.3	8.5	19.9	39.2	28.4	61.0	51.0	21.8	22.6	Pass
0.77604	L1	0.7	-5.5	19.8	20.5	14.3	56.0	46.0	35.5	31.7	Pass
2.30117	L1	5.0	-2.0	19.7	24.7	17.7	56.0	46.0	31.3	28.3	Pass
9.720	L1	11.9	6.0	19.7	31.6	25.7	60.0	50.0	28.4	24.3	Pass
0.15922	N	35.7	23.9	19.5	55.2	43.4	65.5	55.5	10.3	12.1	Pass
0.21955	N	27.8	17.5	19.5	47.3	37.0	62.8	52.8	15.5	15.8	Pass
0.54789	N	13.8	8.1	19.5	33.3	27.6	56.0	46.0	22.7	18.4	Pass
2.12773	N	-1.6	-7.5	19.5	17.9	12.0	56.0	46.0	38.1	34.0	Pass
10.592	N	11.8	6.0	19.9	31.7	25.9	60.0	50.0	28.3	24.1	Pass
12.9704	N	13.5	6.6	19.9	33.4	26.5	60.0	50.0	26.6	23.5	Pass

Note: Measurement Level = Reading Level + Correct Factor

Test engineer: Fred Guo

4. Test of Radiated Emission

4.1. Test Limit

Radiated emissions from 30 MHz to 25 GHz were measured according to the methods defines in ANSI C63.4-2003. The EUT was placed, 0.8 meter above the ground plane, as shown in section 5.6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions for unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance Meters	Radiated (μ V / M)	Radiated (dB μ V/ M)
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the below table.

Frequency (MHz)	Distance Meters	Radiated (dB μ V/ M)
30-230	10	30
230-1000	10	37

4.2. Test Procedures

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, then the video bandwidth is set to 1MHz for peak measurements and 10Hz for average measurements.

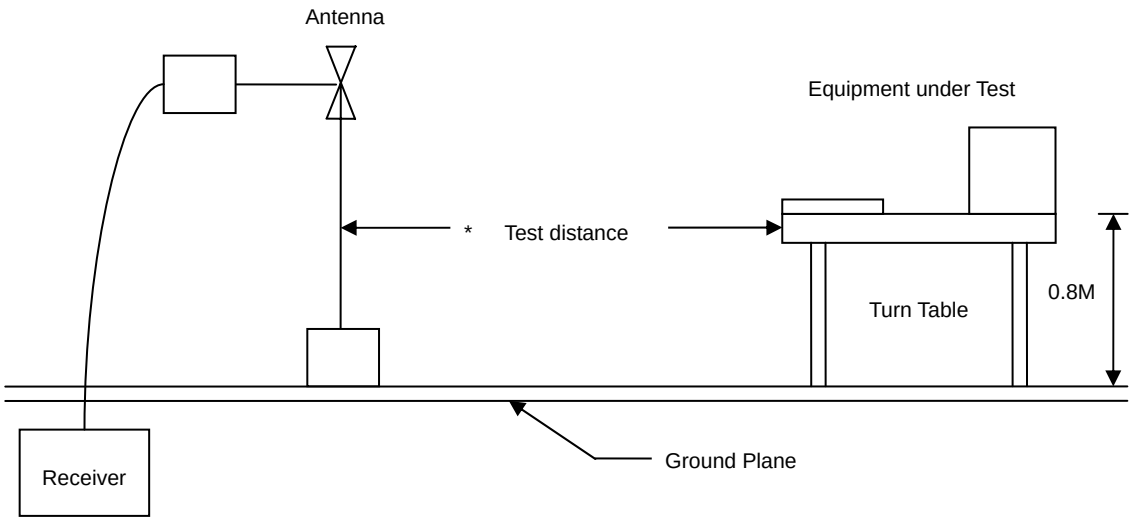
The spectrum from 30MHz to 26GHz is investigated with the transmitter set to the lowest, middle and highest channels in the 2.4GHz band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are

Made with the antenna polarized in both the vertical and the horizontal positions.

When performing radiated measurements >1 GHz, the EUT always remains within the 3dB beam-width of the measuring antenna.

4.3. Typical Test Setup



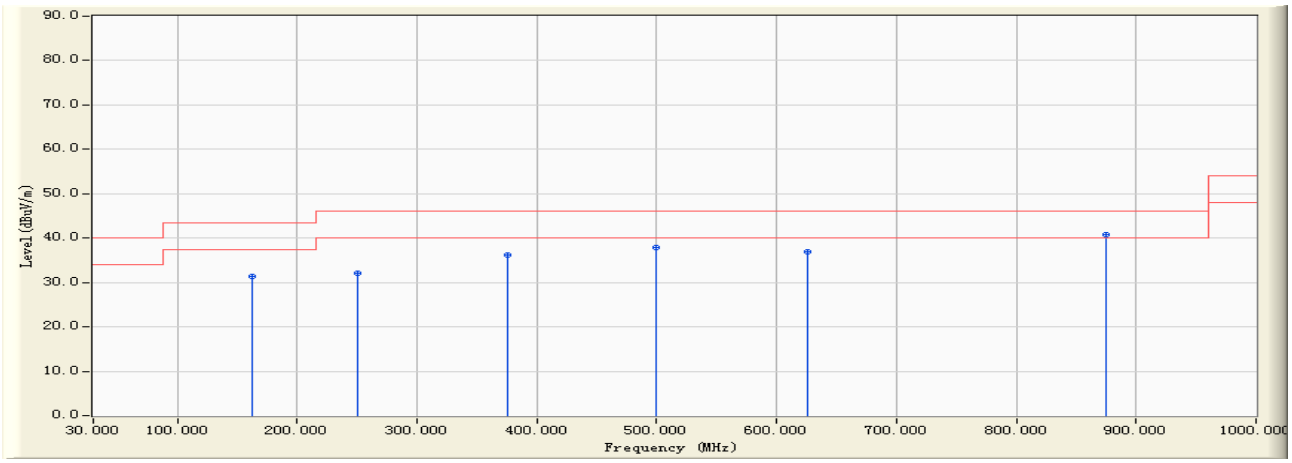
4.4. Measurement Equipment

Instrument	Model No.	Manufacturer	Serial No.	Calibration Date
EMI Test Receiver	R&S	ESCI	100564	2009.06.23
Preamplifier	Agilent	87405B	My39500554	2010.02.10
Preamplifier	Agilent	8449B	ED-HE-EMI-077	2010.02.10
Ultra Broadband Antenna	R&S	HL562	100362	2009.11.25
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-619	2009.11.10
Spectrum Analyzer	R&S	FSP40	100324	2009.11.02
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-001	2009.10.19

4.5. Test Result and Data

Under 1G:

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 10:41**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2412MHz)**

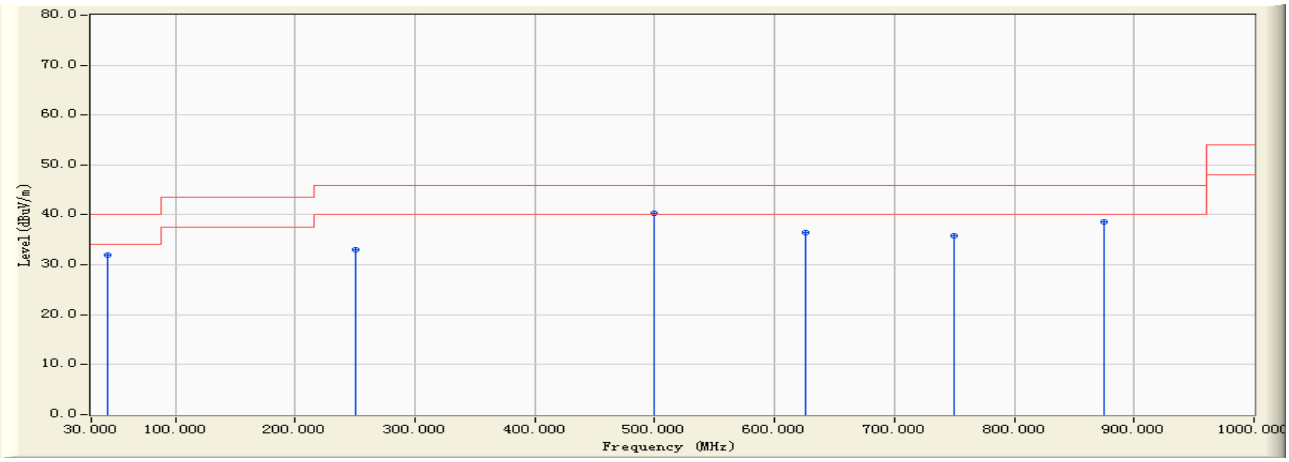


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		162.350	-17.891	49.360	31.469	-12.031	43.500	QUASIPEAK
2		250.006	-15.238	47.350	32.113	-13.887	46.000	QUASIPEAK
3		375.830	-11.286	47.390	36.105	-9.895	46.000	QUASIPEAK
4		499.998	-8.875	46.800	37.925	-8.075	46.000	QUASIPEAK
5		625.310	-6.880	43.890	37.010	-8.990	46.000	QUASIPEAK
6	*	874.990	-1.980	42.860	40.880	-5.120	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 10:44**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2412MHz)**

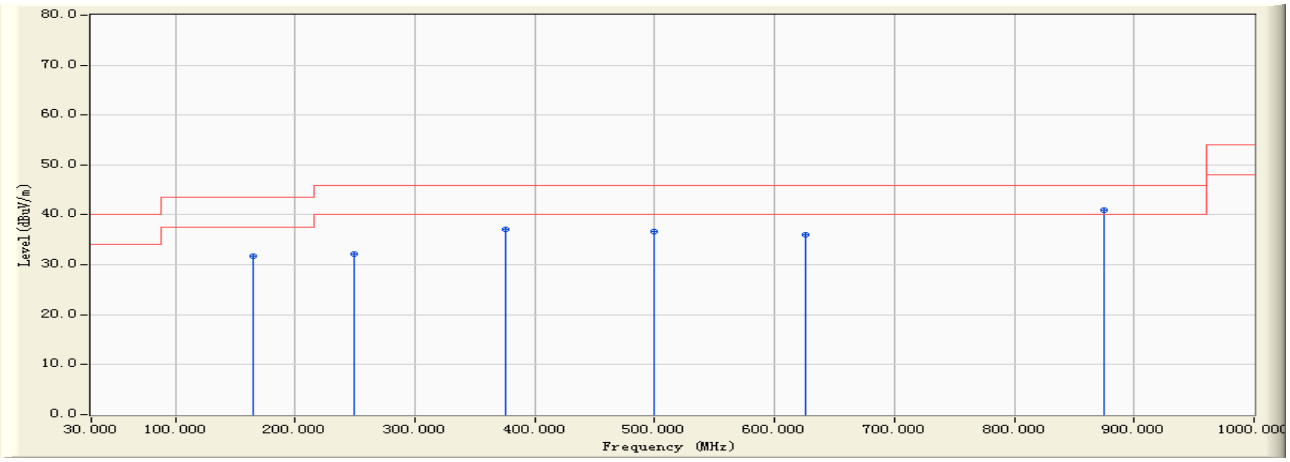


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		43.693	-15.205	47.250	32.046	-7.954	40.000	QUASIPEAK
2		250.016	-15.237	48.320	33.083	-12.917	46.000	QUASIPEAK
3	*	499.136	-8.896	49.300	40.404	-5.596	46.000	QUASIPEAK
4		625.301	-6.879	43.260	36.381	-9.619	46.000	QUASIPEAK
5		749.320	-4.395	40.310	35.915	-10.085	46.000	QUASIPEAK
6		875.012	-1.980	40.620	38.639	-7.361	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 10:47**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2437MHz)**

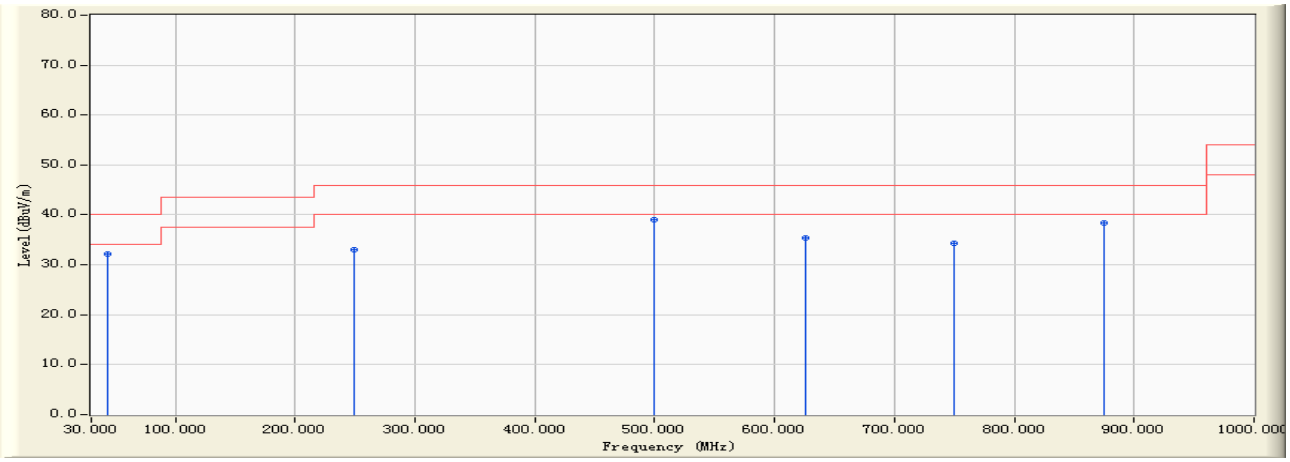


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		165.326	-17.718	49.370	31.652	-11.848	43.500	QUASIPEAK
2		249.890	-15.245	47.360	32.115	-13.885	46.000	QUASIPEAK
3		375.030	-11.290	48.350	37.060	-8.940	46.000	QUASIPEAK
4		499.998	-8.875	45.600	36.725	-9.275	46.000	QUASIPEAK
5		625.370	-6.882	42.960	36.079	-9.921	46.000	QUASIPEAK
6	*	875.019	-1.982	42.960	40.978	-5.022	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 10:49**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2437MHz)**

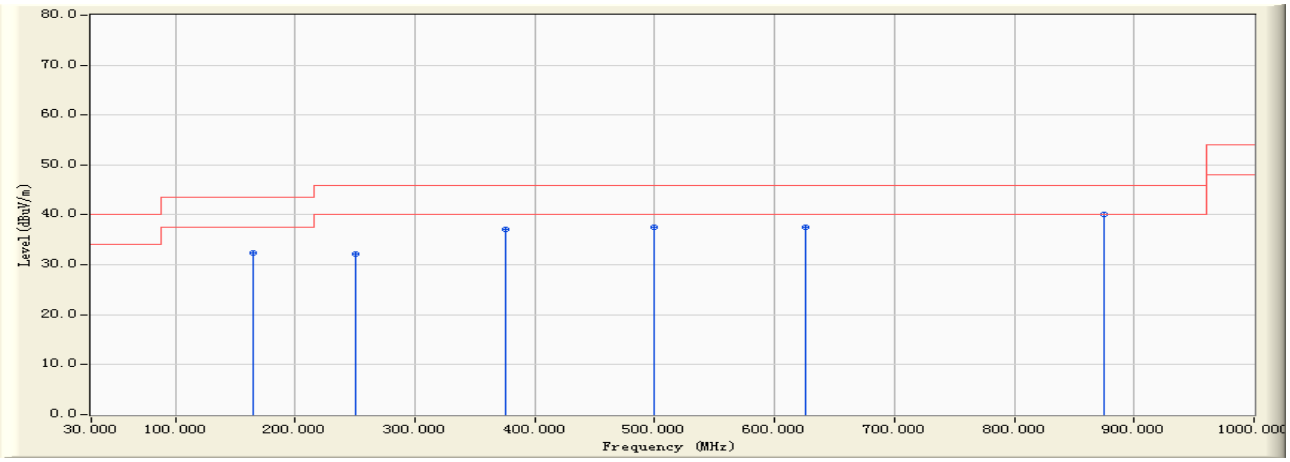


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		43.923	-15.336	47.600	32.263	-7.737	40.000	QUASIPEAK
2		249.762	-15.253	48.370	33.116	-12.884	46.000	QUASIPEAK
3	*	499.163	-8.896	48.017	39.122	-6.878	46.000	QUASIPEAK
4		625.870	-6.894	42.360	35.466	-10.534	46.000	QUASIPEAK
5		749.990	-4.397	38.620	34.223	-11.777	46.000	QUASIPEAK
6		875.312	-2.002	40.390	38.388	-7.612	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 10:52**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2462MHz)**

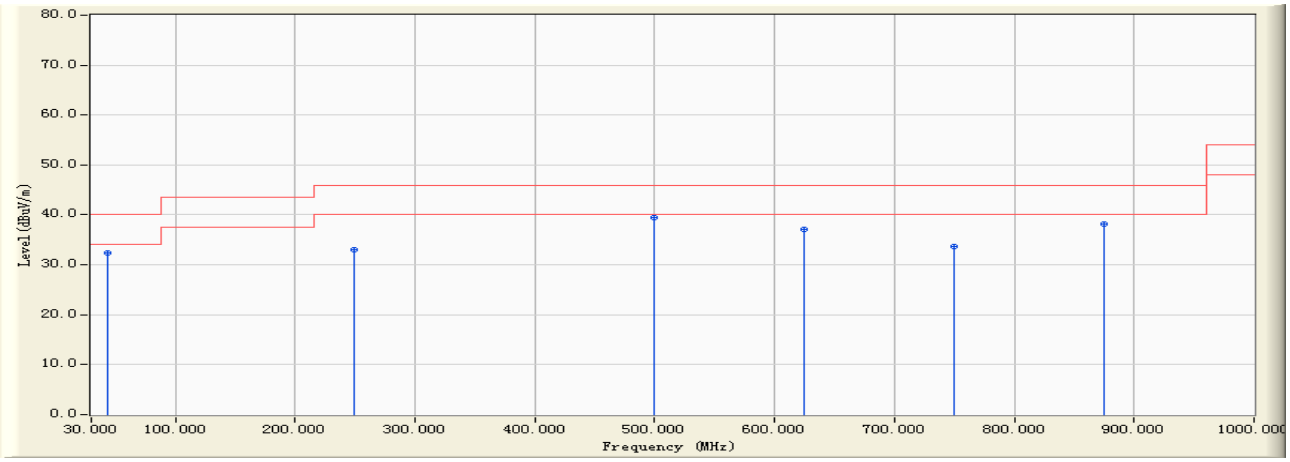


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		165.219	-17.724	50.030	32.306	-11.194	43.500	QUASIPEAK
2		249.990	-15.238	47.360	32.122	-13.878	46.000	QUASIPEAK
3		375.820	-11.285	48.370	37.085	-8.915	46.000	QUASIPEAK
4		499.890	-8.878	46.312	37.435	-8.565	46.000	QUASIPEAK
5		625.310	-6.880	44.360	37.480	-8.520	46.000	QUASIPEAK
6	*	875.009	-1.980	42.130	40.149	-5.851	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 10:54**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2462MHz)**

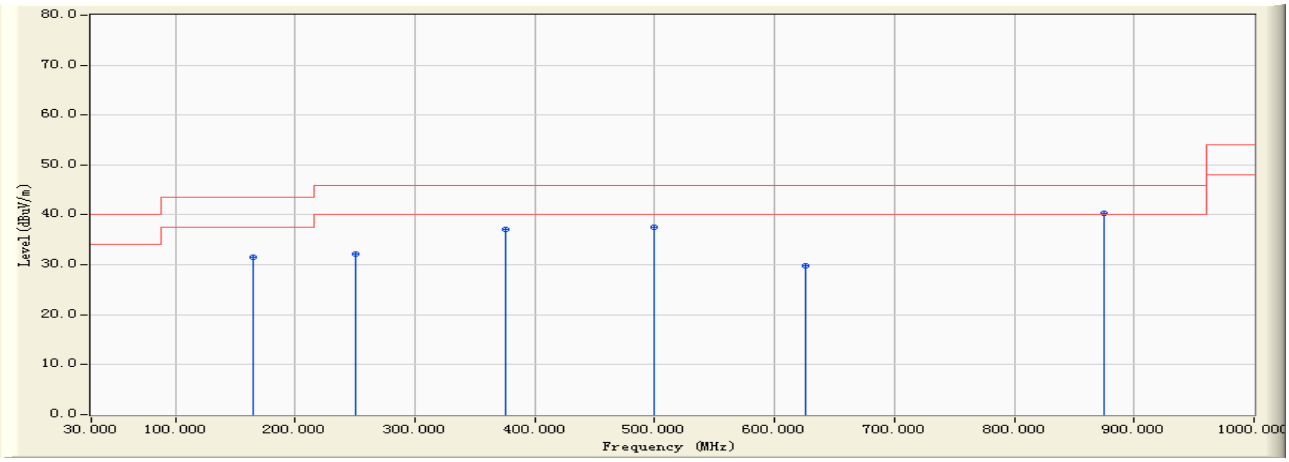


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		43.163	-14.902	47.310	32.408	-7.592	40.000	QUASIPEAK
2		249.182	-15.282	48.360	33.077	-12.923	46.000	QUASIPEAK
3	*	499.996	-8.875	48.370	39.495	-6.505	46.000	QUASIPEAK
4		624.990	-6.870	43.870	37.000	-9.000	46.000	QUASIPEAK
5		749.319	-4.395	38.126	33.731	-12.269	46.000	QUASIPEAK
6		875.310	-2.002	40.280	38.278	-7.722	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 11:00**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 2: Transmit by 802.11g (An0) (2412MHz)**

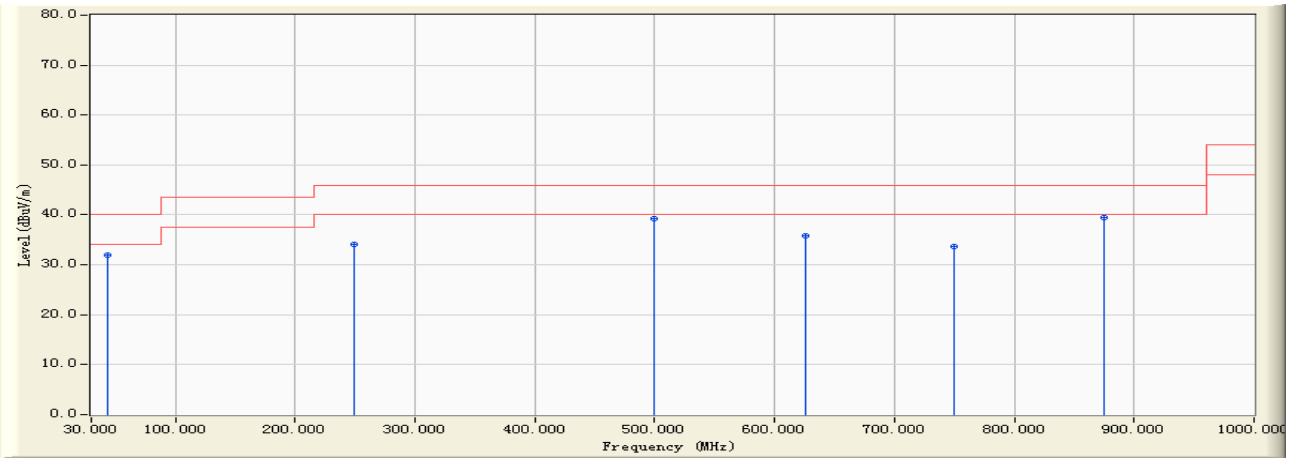


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		165.209	-17.724	49.350	31.626	-11.874	43.500	QUASIPEAK
2		249.996	-15.238	47.310	32.072	-13.928	46.000	QUASIPEAK
3		375.310	-11.289	48.360	37.071	-8.929	46.000	QUASIPEAK
4		499.892	-8.877	46.500	37.623	-8.377	46.000	QUASIPEAK
5		625.310	-6.880	36.740	29.860	-16.140	46.000	QUASIPEAK
6	*	874.998	-1.981	42.360	40.380	-5.620	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 11:02**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 2: Transmit by 802.11g (An0) (2412MHz)**

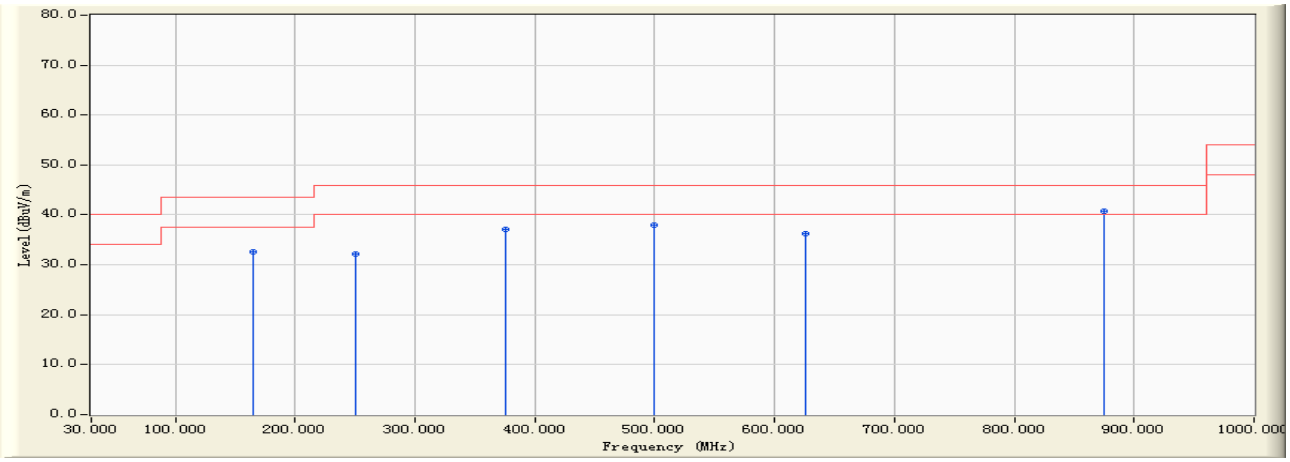


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		43.923	-15.336	47.320	31.983	-8.017	40.000	QUASIPEAK
2		249.712	-15.256	49.350	34.094	-11.906	46.000	QUASIPEAK
3		499.996	-8.875	48.130	39.255	-6.745	46.000	QUASIPEAK
4		625.391	-6.882	42.610	35.728	-10.272	46.000	QUASIPEAK
5		749.680	-4.400	38.160	33.761	-12.239	46.000	QUASIPEAK
6	*	875.102	-1.987	41.370	39.383	-6.617	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 11:04**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 2: Transmit by 802.11g (An0) (2437MHz)**

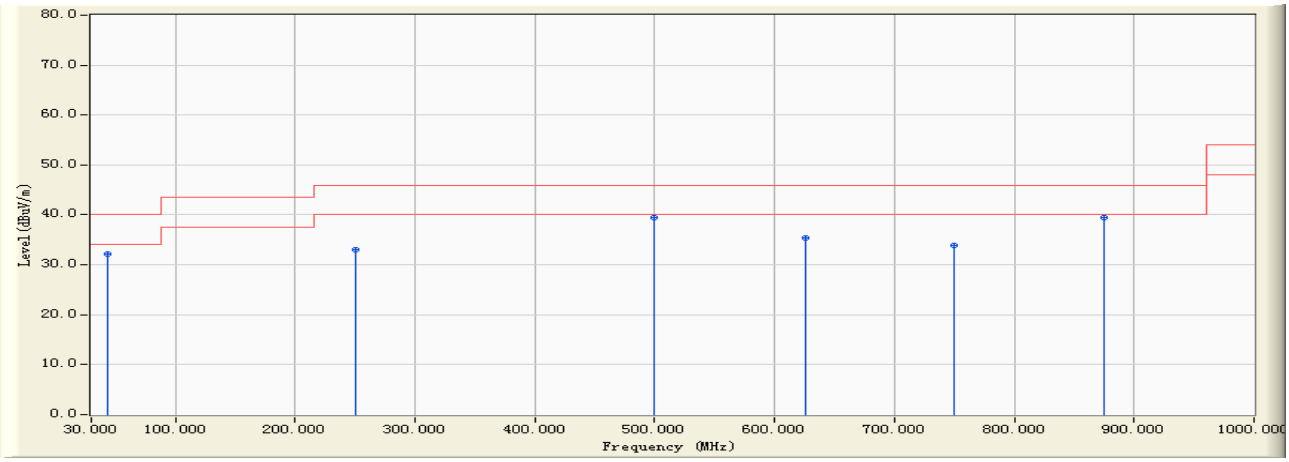


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		165.029	-17.735	50.390	32.655	-10.845	43.500	QUASIPEAK
2		249.996	-15.238	47.370	32.132	-13.868	46.000	QUASIPEAK
3		375.149	-11.290	48.370	37.080	-8.920	46.000	QUASIPEAK
4		499.993	-8.875	46.800	37.925	-8.075	46.000	QUASIPEAK
5		625.310	-6.880	43.150	36.270	-9.730	46.000	QUASIPEAK
6	*	874.992	-1.980	42.630	40.650	-5.350	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 11:06**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 2: Transmit by 802.11g (An0) (2437MHz)**

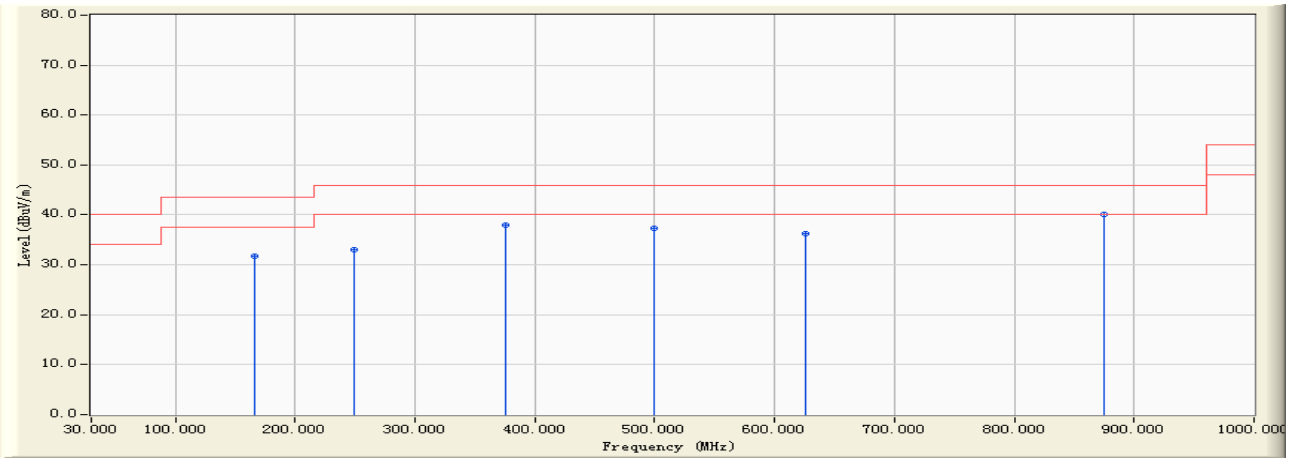


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		43.163	-14.902	47.130	32.228	-7.772	40.000	QUASIPEAK
2		249.922	-15.244	48.370	33.127	-12.873	46.000	QUASIPEAK
3	*	499.994	-8.875	48.350	39.475	-6.525	46.000	QUASIPEAK
4		625.371	-6.882	42.173	35.291	-10.709	46.000	QUASIPEAK
5		749.310	-4.395	38.260	33.865	-12.135	46.000	QUASIPEAK
6		875.112	-1.987	41.360	39.372	-6.628	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 11:10**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 2: Transmit by 802.11g (An0) (2462MHz)**

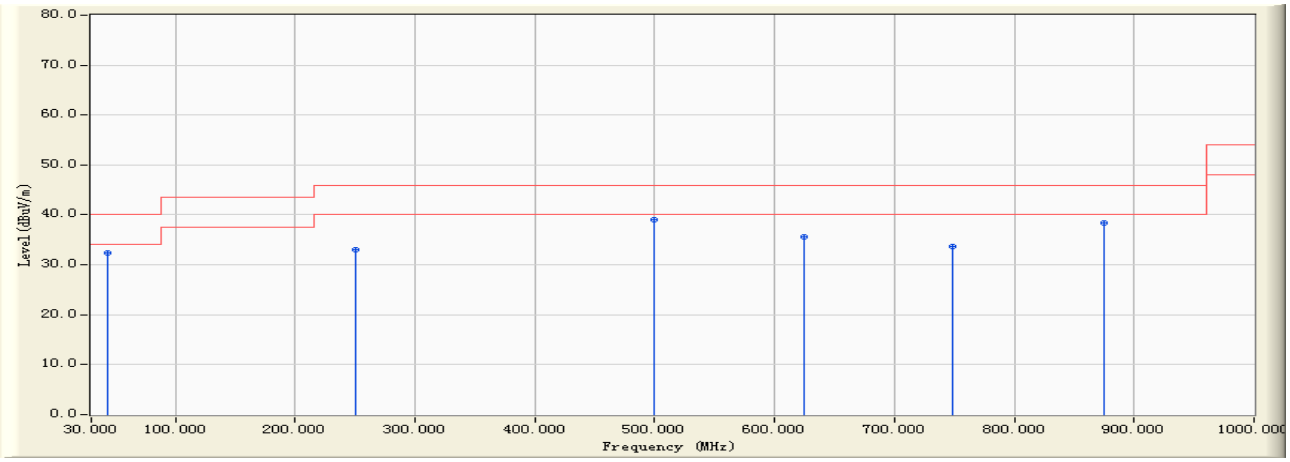


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		166.009	-17.679	49.380	31.702	-11.798	43.500	QUASIPEAK
2		249.360	-15.274	48.372	33.098	-12.902	46.000	QUASIPEAK
3		375.930	-11.285	49.320	38.035	-7.965	46.000	QUASIPEAK
4		499.992	-8.875	46.200	37.325	-8.675	46.000	QUASIPEAK
5		625.310	-6.880	43.150	36.270	-9.730	46.000	QUASIPEAK
6	*	874.328	-1.923	42.130	40.207	-5.793	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 11:12**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 2: Transmit by 802.11g (An0) (2462MHz)**

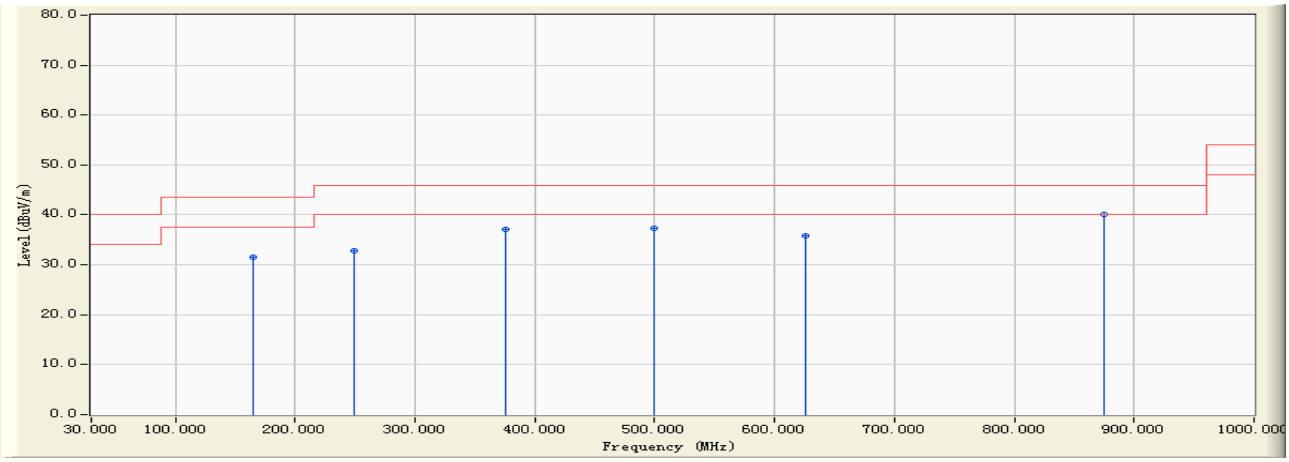


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		43.163	-14.902	47.200	32.298	-7.702	40.000	QUASIPEAK
2		249.982	-15.239	48.360	33.121	-12.879	46.000	QUASIPEAK
3	*	499.994	-8.875	48.010	39.135	-6.865	46.000	QUASIPEAK
4		625.119	-6.873	42.370	35.496	-10.504	46.000	QUASIPEAK
5		749.103	-4.393	38.160	33.767	-12.233	46.000	QUASIPEAK
6		875.112	-1.987	40.310	38.322	-7.678	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 11:20**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n(20MHz) (An0) (2412MHz)**

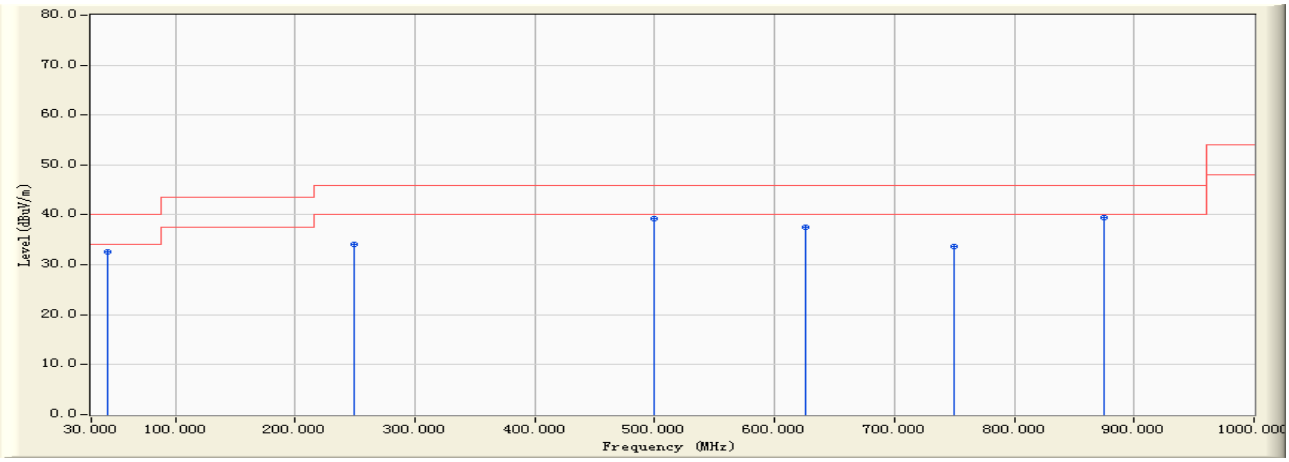


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		165.129	-17.729	49.360	31.631	-11.869	43.500	QUASIPEAK
2		249.312	-15.276	48.160	32.883	-13.117	46.000	QUASIPEAK
3		375.161	-11.290	48.360	37.071	-8.929	46.000	QUASIPEAK
4		499.992	-8.875	46.200	37.325	-8.675	46.000	QUASIPEAK
5		625.310	-6.880	42.680	35.800	-10.200	46.000	QUASIPEAK
6	*	875.360	-2.005	42.130	40.125	-5.875	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 11:23**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n(20MHz) (An0) (2412MHz)**

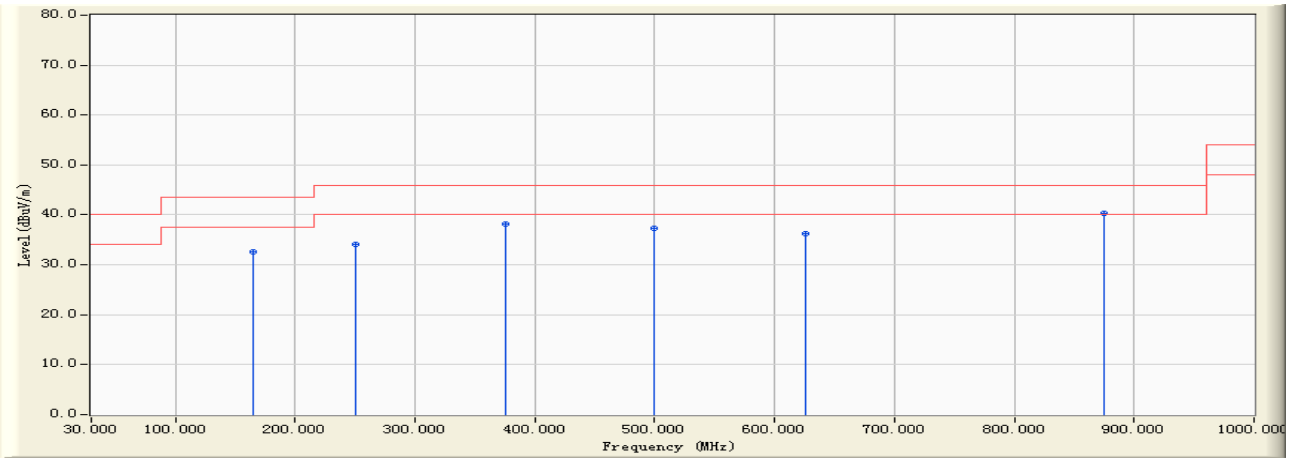


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		43.813	-15.274	47.800	32.526	-7.474	40.000	QUASIPEAK
2		249.350	-15.275	49.310	34.035	-11.965	46.000	QUASIPEAK
3		499.199	-8.894	48.090	39.196	-6.804	46.000	QUASIPEAK
4		625.310	-6.880	44.320	37.440	-8.560	46.000	QUASIPEAK
5		749.360	-4.396	38.160	33.764	-12.236	46.000	QUASIPEAK
6	*	875.312	-2.002	41.360	39.358	-6.642	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 11:25**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n(20MHz) (An0) (2437MHz)**

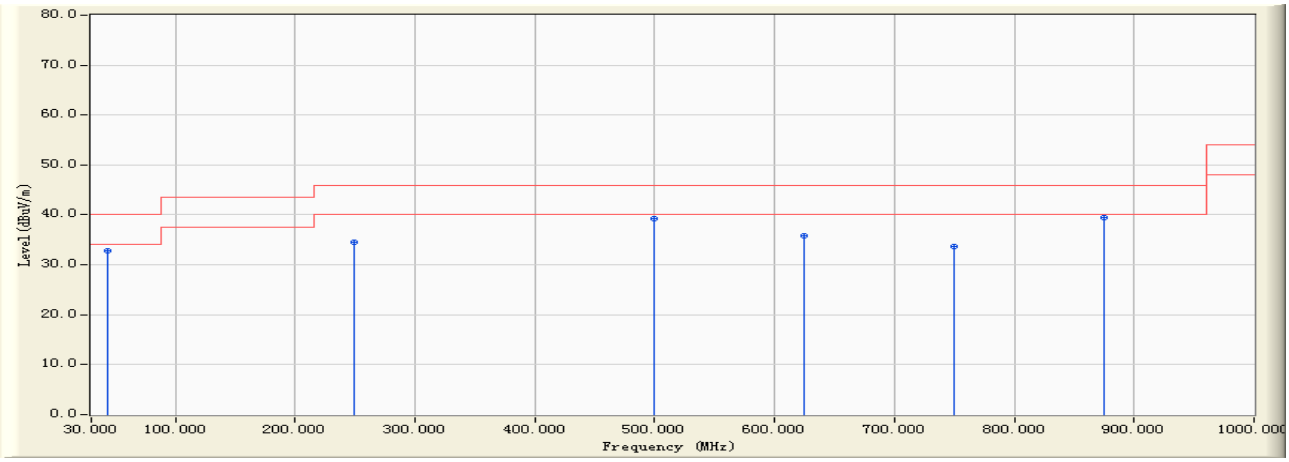


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		165.329	-17.718	50.230	32.512	-10.988	43.500	QUASIPEAK
2		249.930	-15.242	49.310	34.068	-11.932	46.000	QUASIPEAK
3		375.131	-11.290	49.360	38.070	-7.930	46.000	QUASIPEAK
4		499.129	-8.896	46.200	37.304	-8.696	46.000	QUASIPEAK
5		625.321	-6.880	43.150	36.270	-9.730	46.000	QUASIPEAK
6	*	875.102	-1.987	42.350	40.363	-5.637	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 11:27**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n(20MHz) (An0) (2437MHz)**

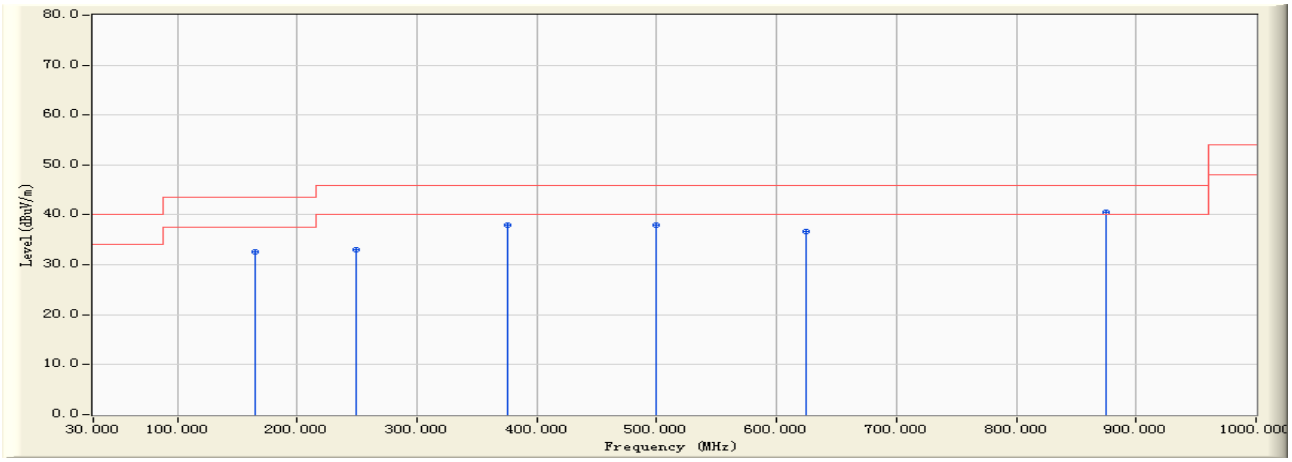


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		43.613	-15.159	47.900	32.742	-7.258	40.000	QUASIPEAK
2		249.350	-15.275	49.860	34.585	-11.415	46.000	QUASIPEAK
3		499.359	-8.890	48.190	39.300	-6.700	46.000	QUASIPEAK
4		625.130	-6.874	42.690	35.816	-10.184	46.000	QUASIPEAK
5		749.360	-4.396	38.162	33.766	-12.234	46.000	QUASIPEAK
6	*	875.312	-2.002	41.360	39.358	-6.642	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 11:32**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n(20MHz) (An0) (2462MHz)**

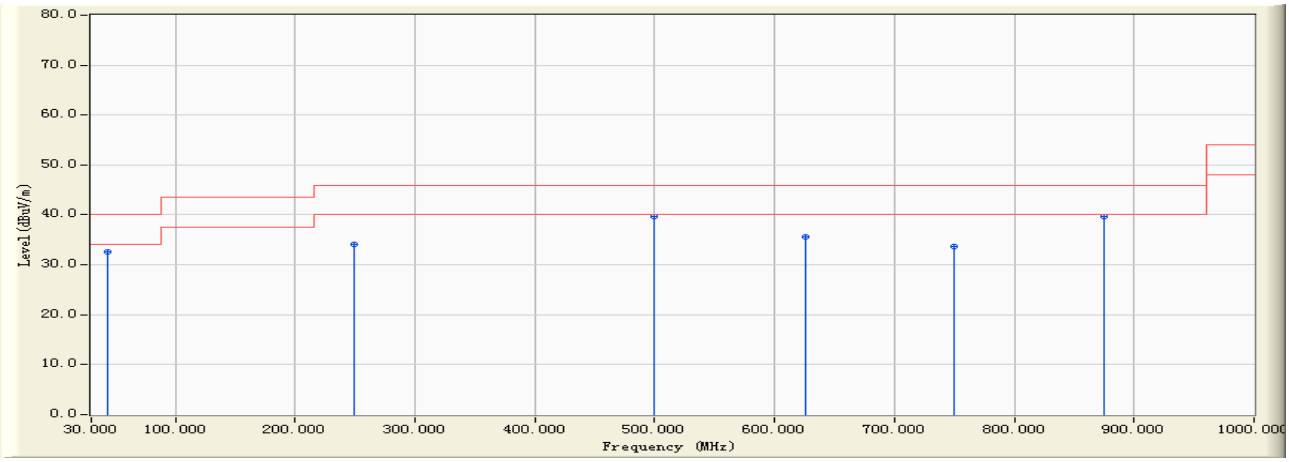


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		165.329	-17.718	50.390	32.672	-10.828	43.500	QUASIPEAK
2		249.132	-15.285	48.390	33.105	-12.895	46.000	QUASIPEAK
3		375.131	-11.290	49.238	37.948	-8.052	46.000	QUASIPEAK
4		499.996	-8.875	46.900	38.025	-7.975	46.000	QUASIPEAK
5		625.191	-6.876	43.620	36.744	-9.256	46.000	QUASIPEAK
6	*	874.998	-1.981	42.500	40.520	-5.480	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 11:40**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n(20MHz) (An0) (2462MHz)**

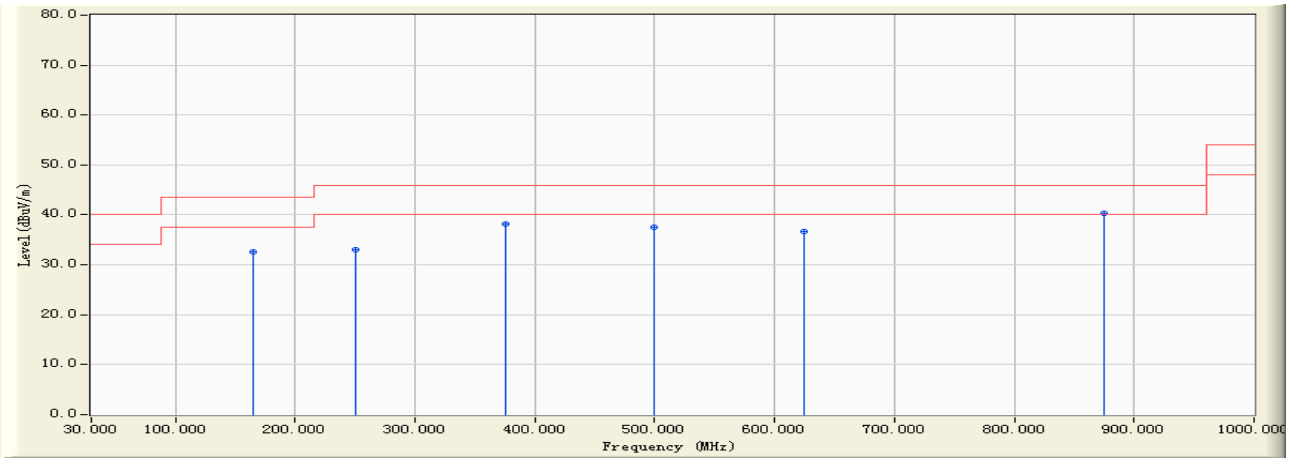


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		43.163	-14.902	47.600	32.698	-7.302	40.000	QUASIPEAK
2		249.310	-15.276	49.360	34.083	-11.917	46.000	QUASIPEAK
3	*	499.993	-8.875	48.600	39.725	-6.275	46.000	QUASIPEAK
4		625.311	-6.880	42.390	35.510	-10.490	46.000	QUASIPEAK
5		749.320	-4.395	38.170	33.775	-12.225	46.000	QUASIPEAK
6		875.112	-1.987	41.610	39.622	-6.378	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 11:42**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n(40MHz) (An0) (2422MHz)**

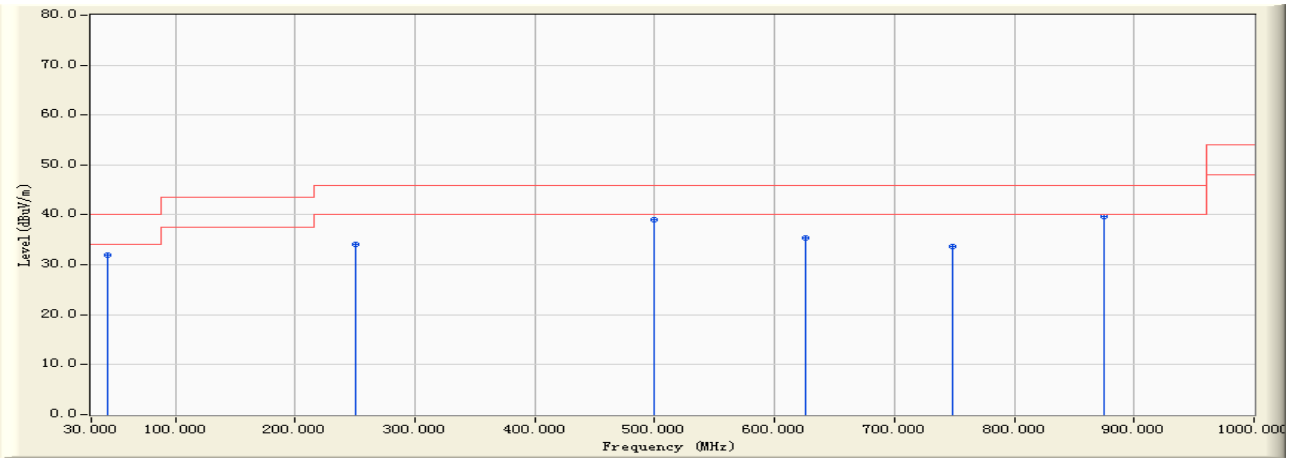


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		165.319	-17.718	50.360	32.642	-10.858	43.500	QUASIPEAK
2		249.912	-15.244	48.310	33.066	-12.934	46.000	QUASIPEAK
3		375.131	-11.290	49.360	38.070	-7.930	46.000	QUASIPEAK
4		499.992	-8.875	46.500	37.625	-8.375	46.000	QUASIPEAK
5		625.130	-6.874	43.650	36.776	-9.224	46.000	QUASIPEAK
6	*	874.995	-1.980	42.300	40.320	-5.680	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 11:44**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n(40MHz) (An0) (2422MHz)**

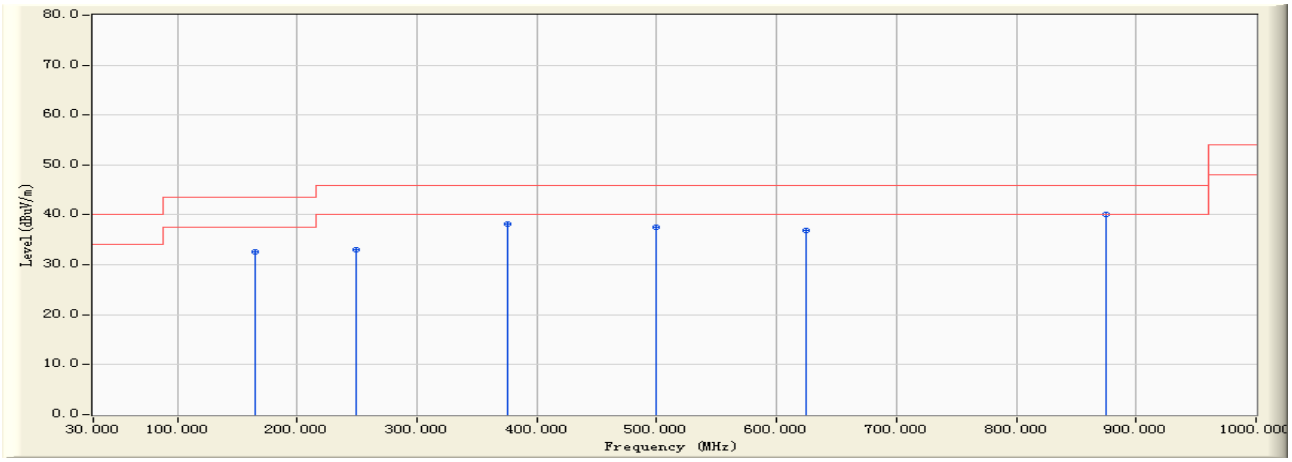


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		43.123	-14.879	46.900	32.021	-7.979	40.000	QUASIPEAK
2		249.992	-15.238	49.360	34.122	-11.878	46.000	QUASIPEAK
3		499.996	-8.875	47.900	39.025	-6.975	46.000	QUASIPEAK
4		625.310	-6.880	42.360	35.480	-10.520	46.000	QUASIPEAK
5		749.103	-4.393	38.160	33.767	-12.233	46.000	QUASIPEAK
6	*	875.112	-1.987	41.630	39.642	-6.358	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 11:46**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n(40MHz) (An0) (2437MHz)**

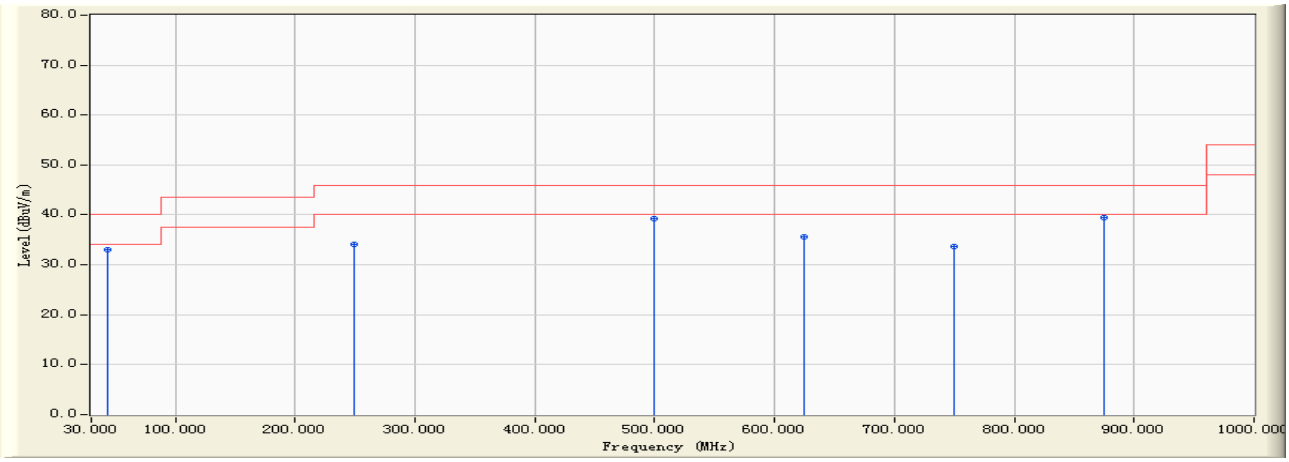


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		165.129	-17.729	50.360	32.631	-10.869	43.500	QUASIPEAK
2		249.182	-15.282	48.370	33.087	-12.913	46.000	QUASIPEAK
3		375.390	-11.288	49.360	38.072	-7.928	46.000	QUASIPEAK
4		499.992	-8.875	46.500	37.625	-8.375	46.000	QUASIPEAK
5		625.191	-6.876	43.870	36.994	-9.006	46.000	QUASIPEAK
6	*	875.310	-2.002	42.160	40.158	-5.842	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 11:49**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n(40MHz) (An0) (2437MHz)**

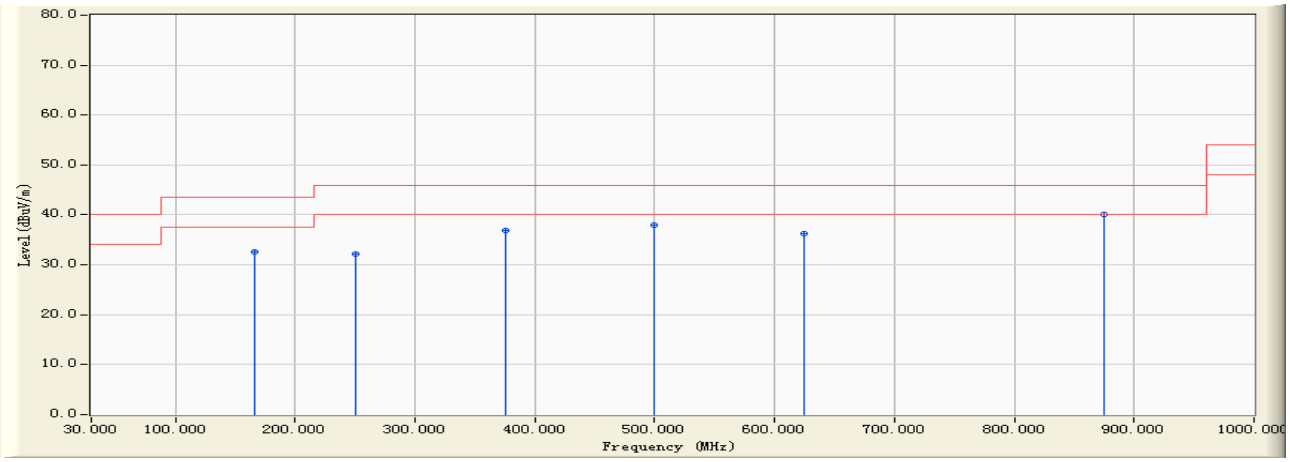


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		43.163	-14.902	47.900	32.998	-7.002	40.000	QUASIPEAK
2		249.360	-15.274	49.360	34.086	-11.914	46.000	QUASIPEAK
3		499.996	-8.875	48.120	39.245	-6.755	46.000	QUASIPEAK
4		625.191	-6.876	42.380	35.504	-10.496	46.000	QUASIPEAK
5		749.363	-4.396	38.120	33.724	-12.276	46.000	QUASIPEAK
6	*	875.152	-1.991	41.360	39.369	-6.631	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 11:51**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n(40MHz) (An0) (2452MHz)**

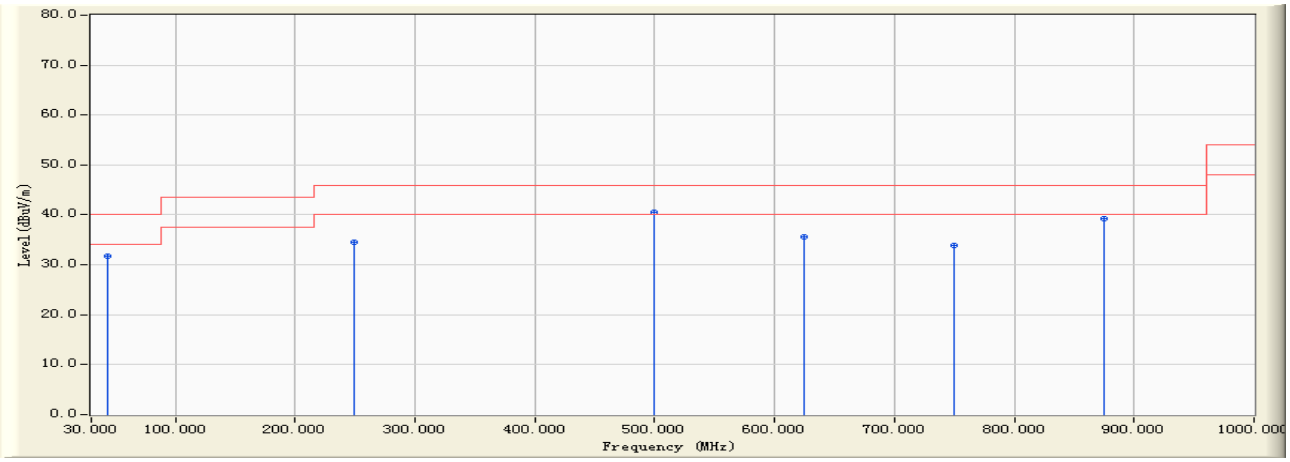


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		166.019	-17.678	50.370	32.692	-10.808	43.500	QUASIPEAK
2		249.992	-15.238	47.360	32.122	-13.878	46.000	QUASIPEAK
3		375.310	-11.289	48.138	36.849	-9.151	46.000	QUASIPEAK
4		499.993	-8.875	46.900	38.025	-7.975	46.000	QUASIPEAK
5		625.191	-6.876	43.127	36.251	-9.749	46.000	QUASIPEAK
6	*	875.129	-1.989	42.100	40.111	-5.889	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/05 - 11:52**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : HL562(30-1000MHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n(40MHz) (An0) (2452MHz)**



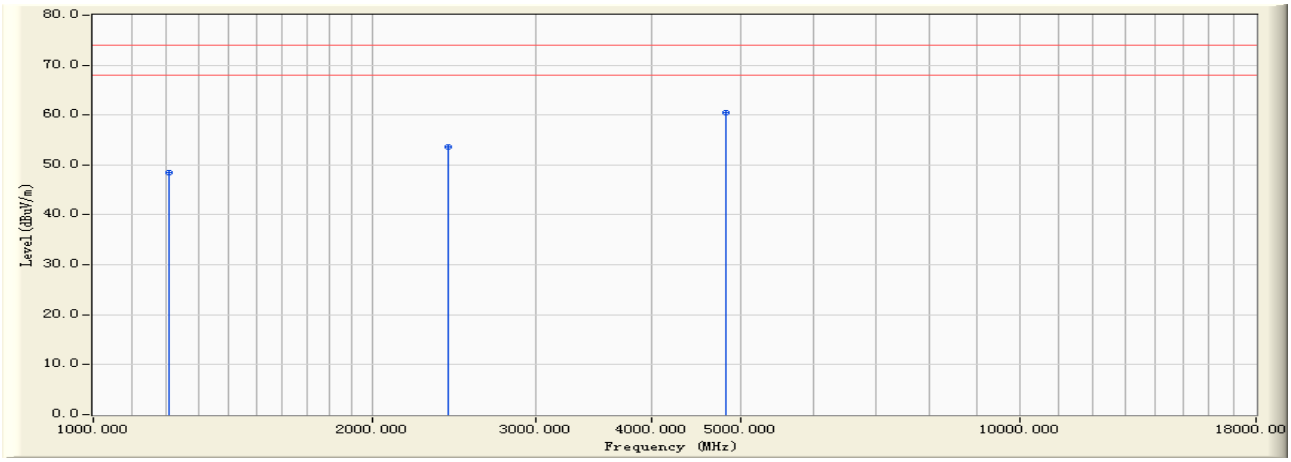
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		43.163	-14.902	46.700	31.798	-8.202	40.000	QUASIPEAK
2		249.362	-15.274	49.870	34.596	-11.404	46.000	QUASIPEAK
3	*	499.994	-8.875	49.360	40.485	-5.515	46.000	QUASIPEAK
4		625.131	-6.874	42.370	35.496	-10.504	46.000	QUASIPEAK
5		749.360	-4.396	38.270	33.874	-12.126	46.000	QUASIPEAK
6		875.152	-1.991	41.160	39.169	-6.831	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Above 1G:

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 10:04**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b(2412MHz) (An0)**

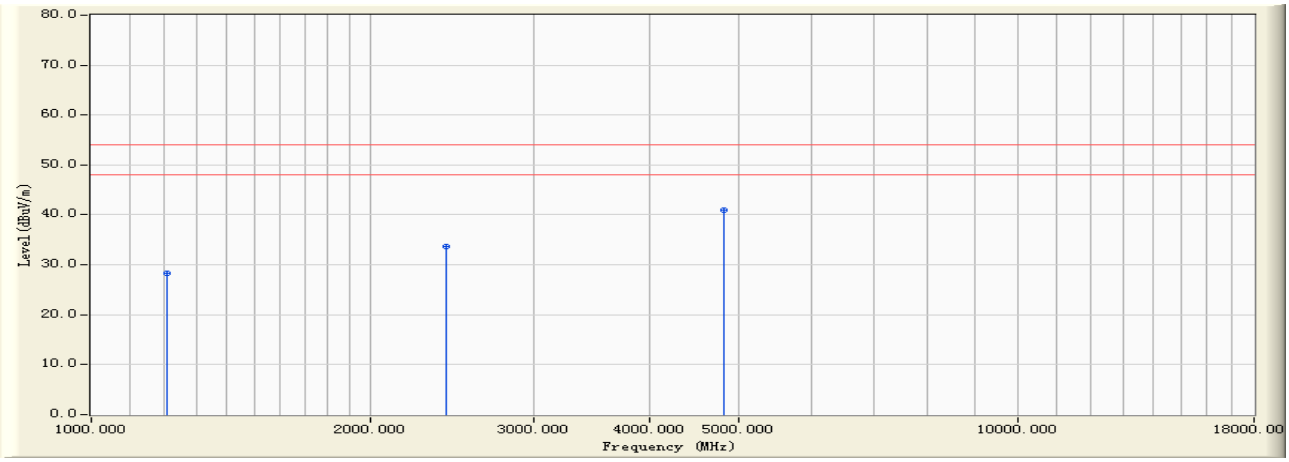


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.830	-5.878	54.310	48.431	-25.569	74.000	PEAK
2		2412.060	0.428	53.190	53.619	-20.381	74.000	PEAK
3	*	4825.160	7.350	53.180	60.530	-13.470	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 10:04**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b(2412MHz) (An0)**

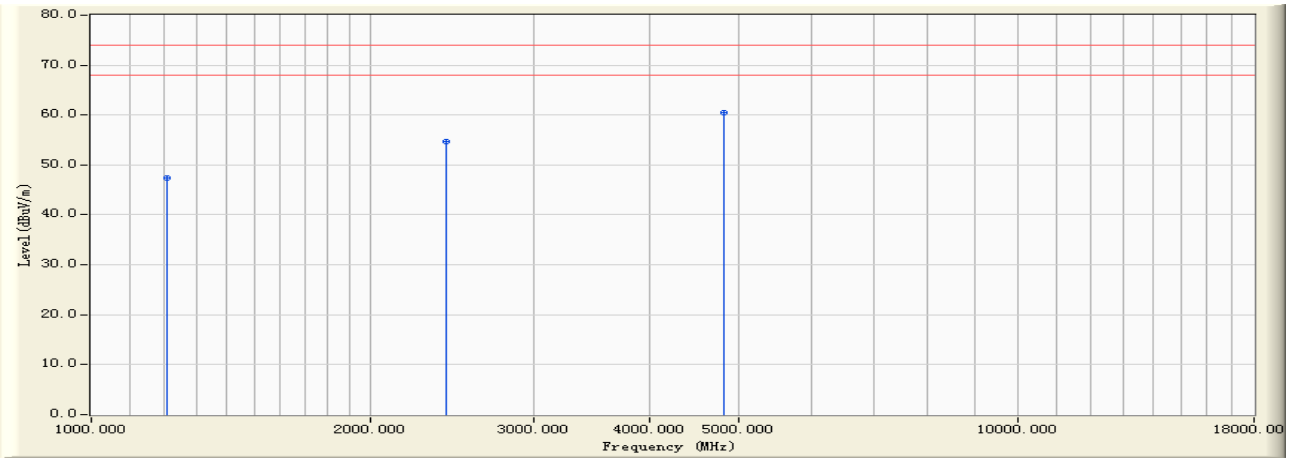


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.830	-5.878	34.160	28.281	-25.719	54.000	AVERAGE
2		2412.060	0.428	33.160	33.589	-20.411	54.000	AVERAGE
3	*	4825.160	7.350	33.590	40.940	-13.060	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 10:05**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b(2412MHz) (An0)**

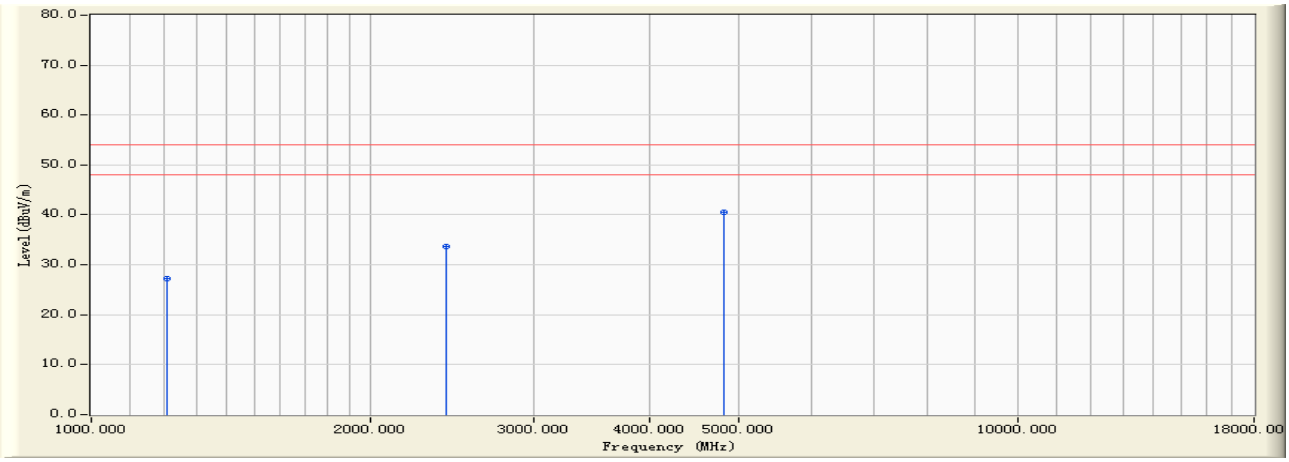


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.490	-5.882	53.290	47.408	-26.592	74.000	PEAK
2		2412.080	0.428	54.190	54.619	-19.381	74.000	PEAK
3	*	4825.370	7.350	53.180	60.531	-13.469	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 10:05**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b(2412MHz) (An0)**

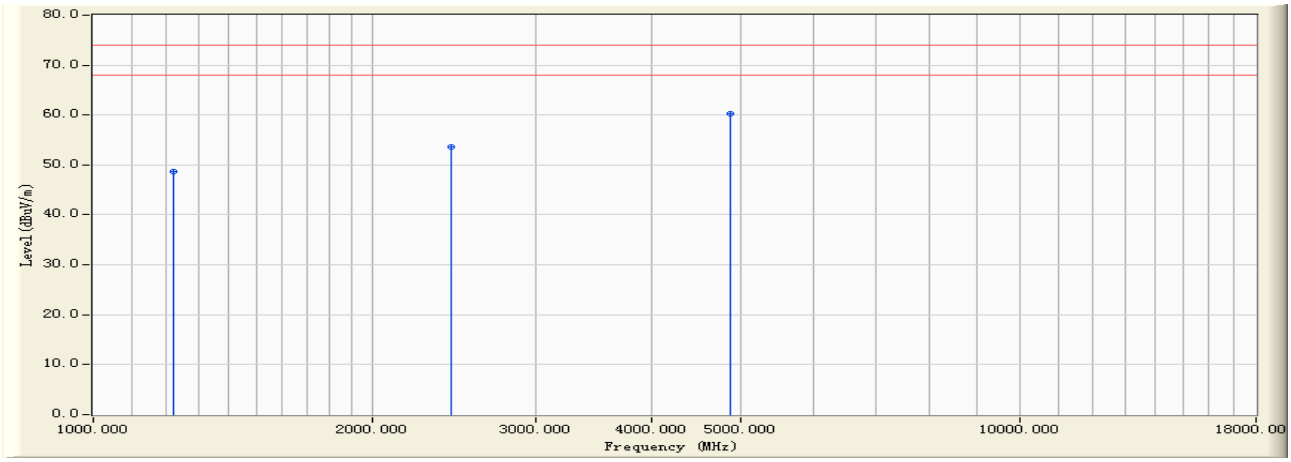


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.490	-5.882	33.160	27.278	-26.722	54.000	AVERAGE
2		2412.080	0.428	33.290	33.719	-20.281	54.000	AVERAGE
3	*	4825.370	7.350	33.260	40.611	-13.389	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 10:07**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b(2437MHz) (An0)**

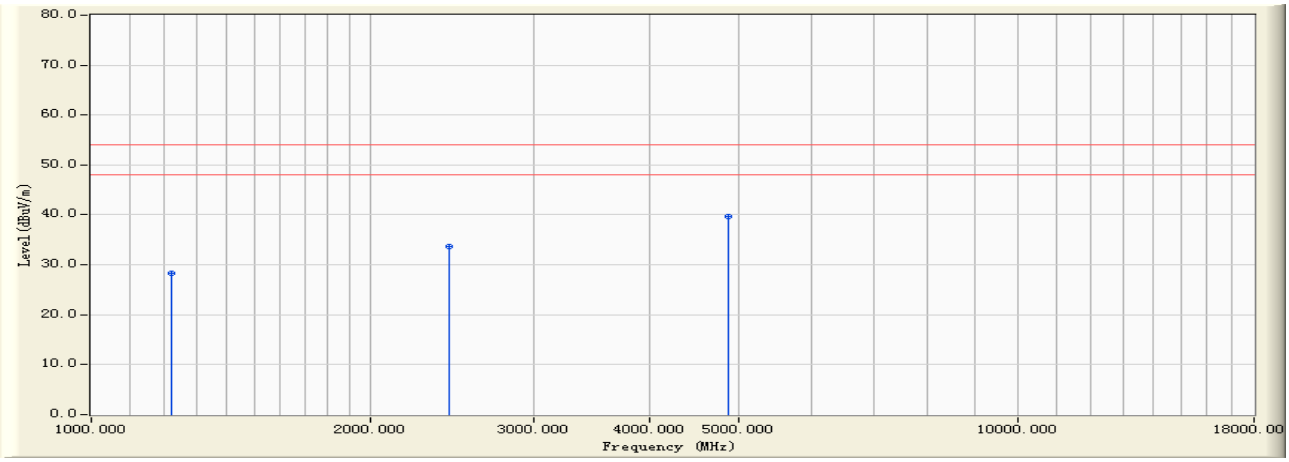


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.350	-5.759	54.360	48.602	-25.398	74.000	PEAK
2		2437.120	0.509	53.160	53.670	-20.330	74.000	PEAK
3	*	4875.190	7.459	52.870	60.329	-13.671	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 10:07**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b(2437MHz) (An0)**

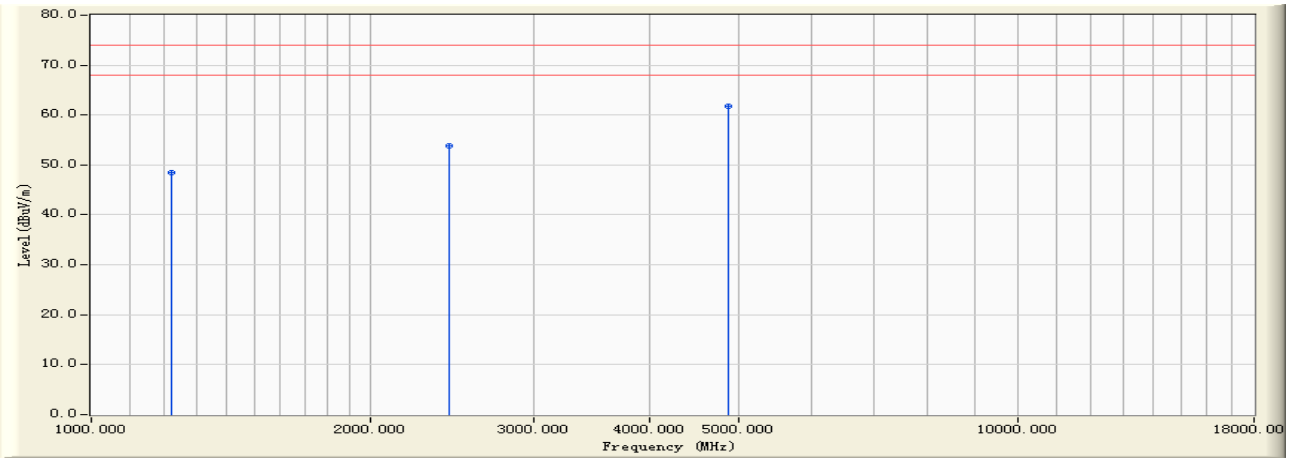


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.350	-5.759	34.160	28.402	-25.598	54.000	AVERAGE
2		2437.120	0.509	33.190	33.700	-20.300	54.000	AVERAGE
3	*	4875.190	7.459	32.160	39.619	-14.381	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 10:09**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b(2437MHz) (An0)**

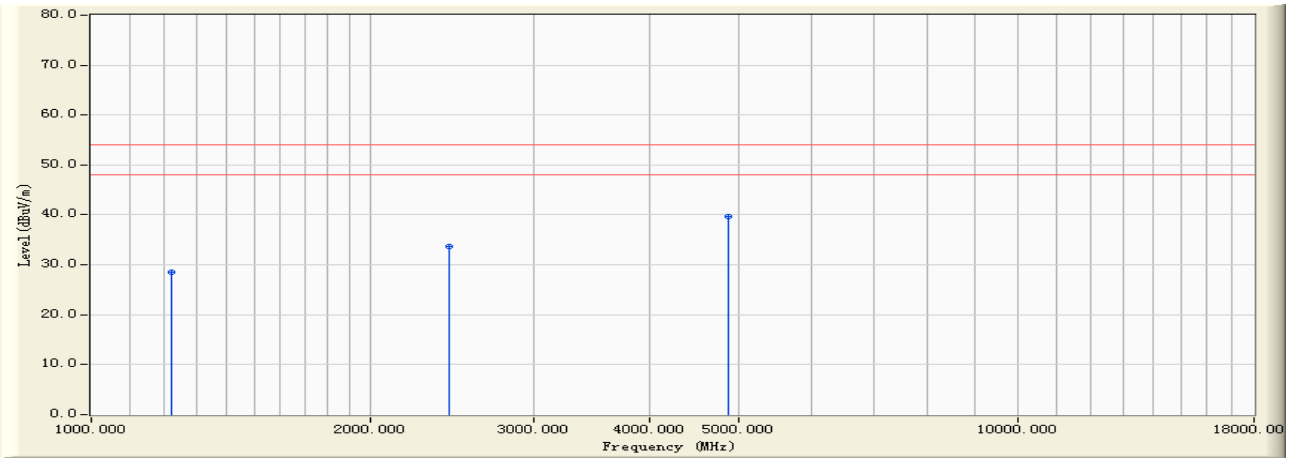


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.360	-5.759	54.310	48.552	-25.448	74.000	PEAK
2		2437.040	0.509	53.290	53.799	-20.201	74.000	PEAK
3	*	4875.060	7.459	54.310	61.769	-12.231	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 10:09**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b(2437MHz) (An0)**

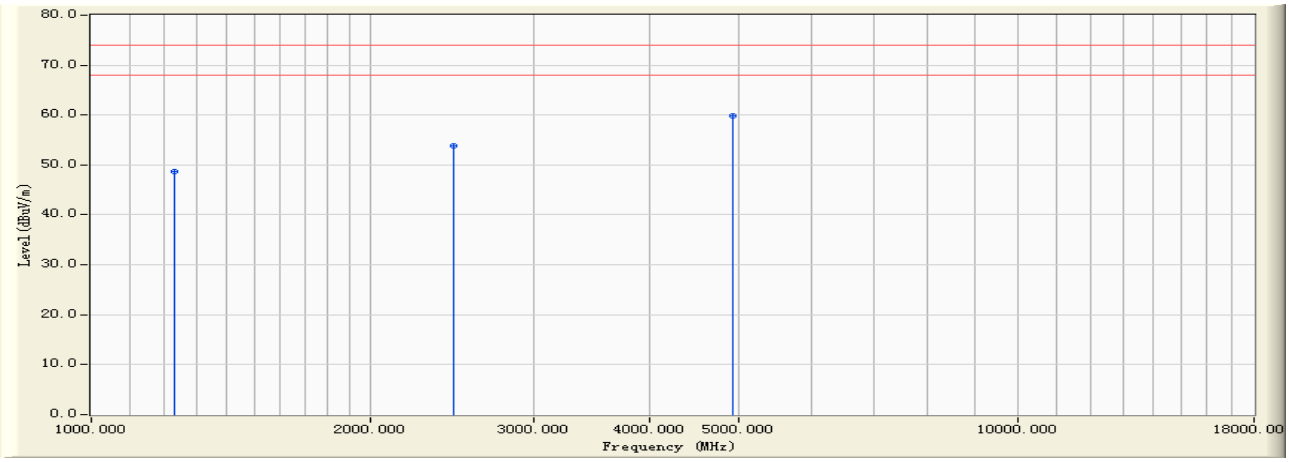


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.360	-5.759	34.290	28.532	-25.468	54.000	AVERAGE
2		2437.040	0.509	33.160	33.669	-20.331	54.000	AVERAGE
3	*	4875.060	7.459	32.170	39.629	-14.371	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 10:40**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b (2462MHz) (An0)**

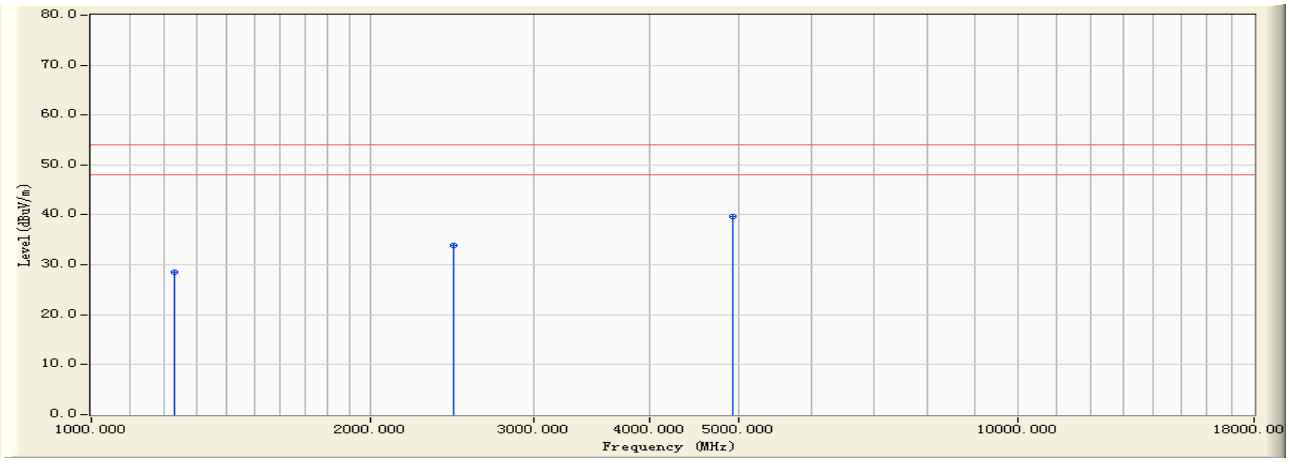


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1231.890	-5.620	54.310	48.690	-25.310	74.000	PEAK
2		2462.130	0.600	53.190	53.790	-20.210	74.000	PEAK
3	*	4925.130	7.567	52.190	59.757	-14.243	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 10:40**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b (2462MHz) (An0)**

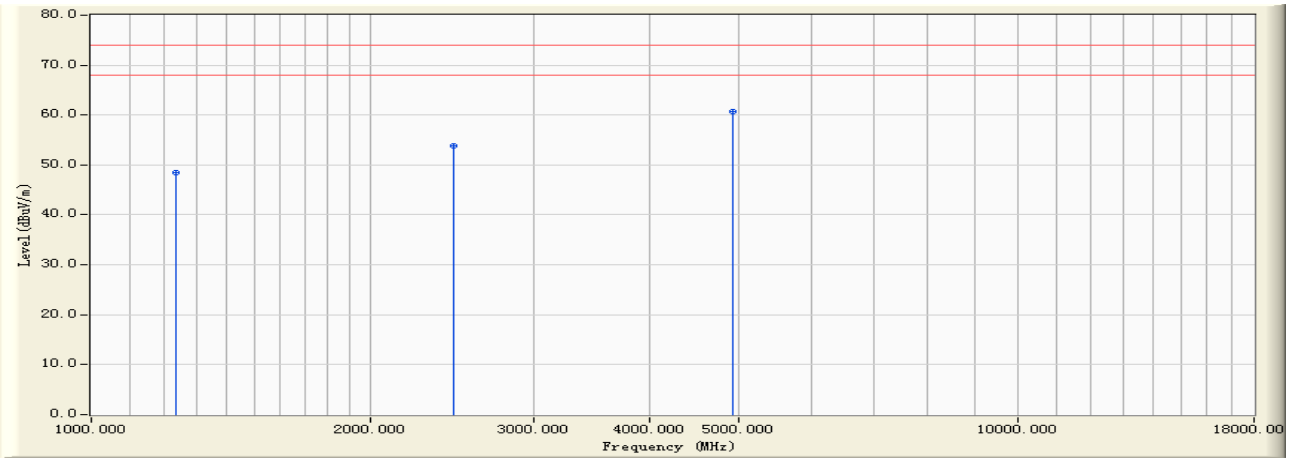


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1231.890	-5.620	34.160	28.540	-25.460	54.000	AVERAGE
2		2462.130	0.600	33.290	33.890	-20.110	54.000	AVERAGE
3	*	4925.130	7.567	32.180	39.747	-14.253	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 10:42**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b (2462MHz) (An0)**

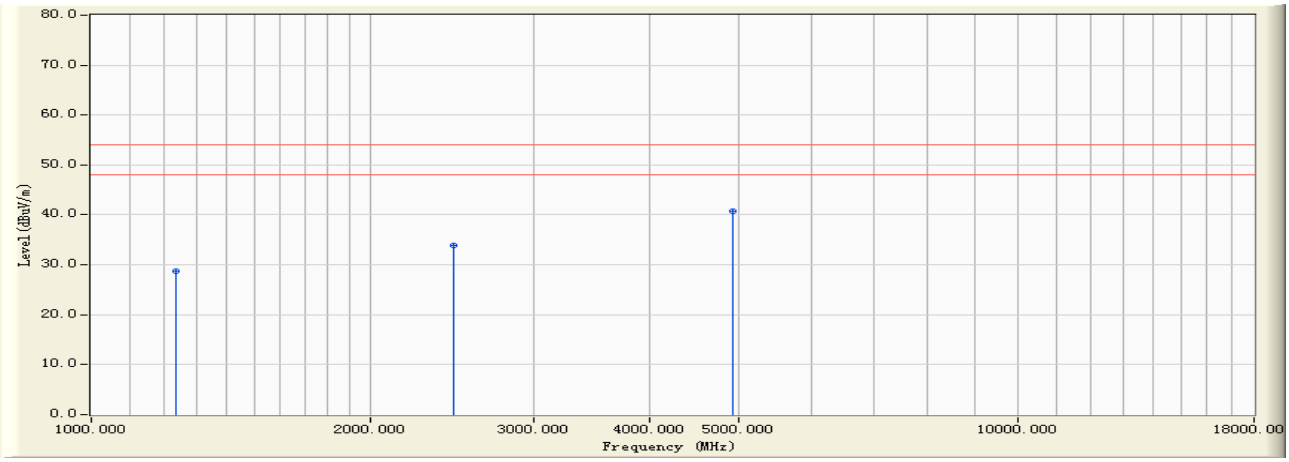


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1232.060	-5.618	54.180	48.562	-25.438	74.000	PEAK
2		2462.180	0.601	53.190	53.790	-20.210	74.000	PEAK
3	*	4925.160	7.567	53.180	60.747	-13.253	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 10:42**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 1: Transmit by 802.11b (2462MHz) (An0)**

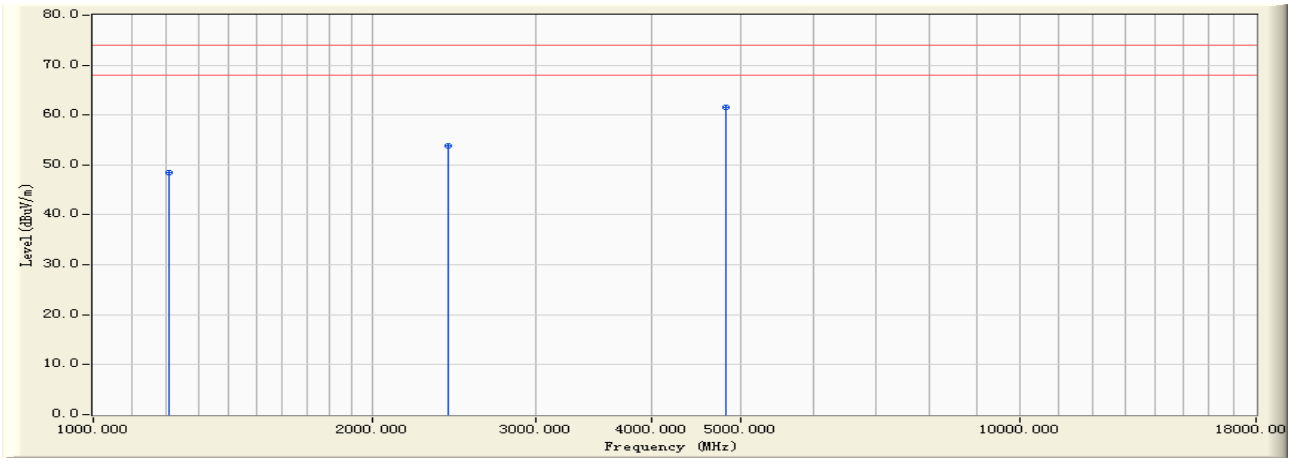


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1232.060	-5.618	34.290	28.672	-25.328	54.000	AVERAGE
2		2462.180	0.601	33.190	33.790	-20.210	54.000	AVERAGE
3	*	4925.160	7.567	33.260	40.827	-13.173	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 10:44**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 2: Transmit by 802.11g (2412MHz) (An0)**

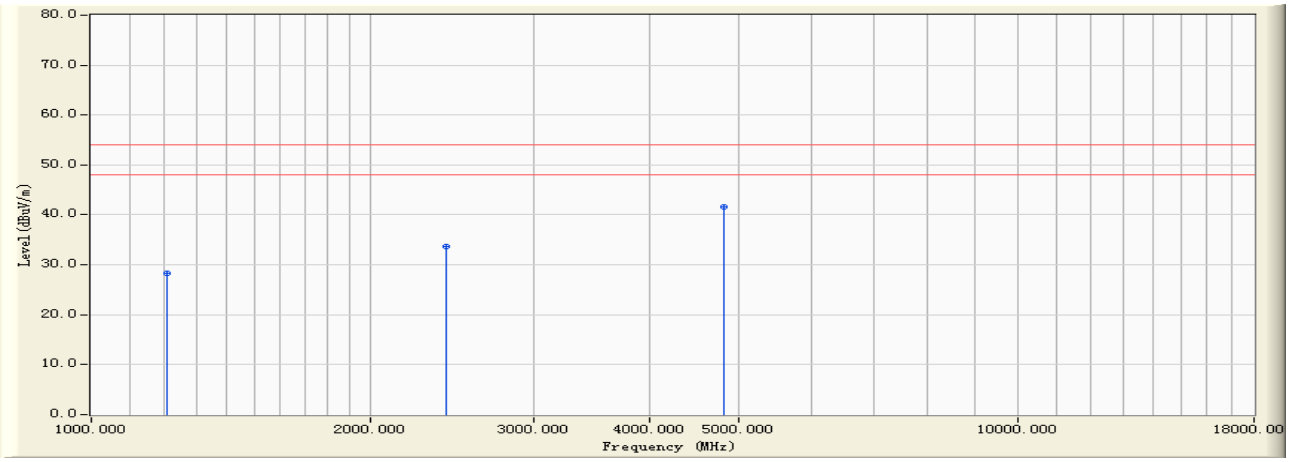


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.350	-5.883	54.310	48.426	-25.574	74.000	PEAK
2		2412.080	0.428	53.470	53.899	-20.101	74.000	PEAK
3	*	4825.360	7.350	54.260	61.611	-12.389	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 10:44**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 2: Transmit by 802.11g (2412MHz) (An0)**

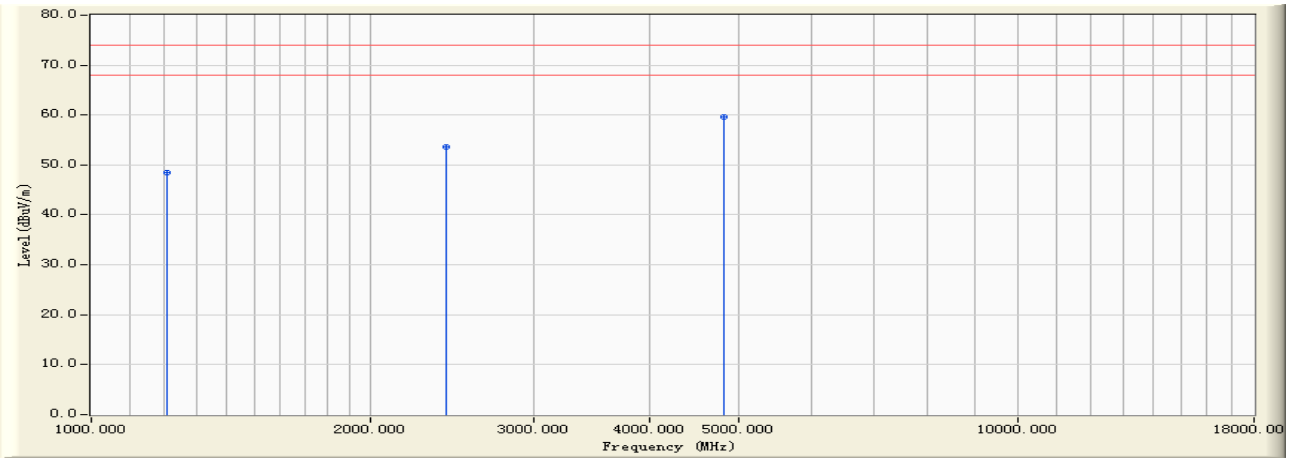


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.350	-5.883	34.120	28.236	-25.764	54.000	AVERAGE
2		2412.080	0.428	33.160	33.589	-20.411	54.000	AVERAGE
3	*	4825.360	7.350	34.160	41.511	-12.489	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:17**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 2: Transmit by 802.11g (2412MHz) (An0)**

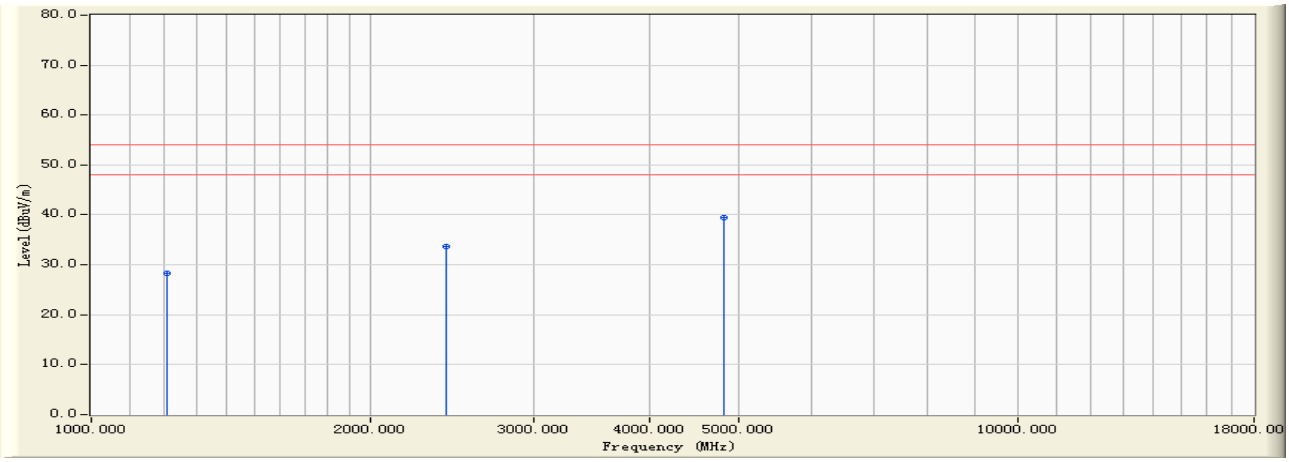


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.360	-5.883	54.310	48.426	-25.574	74.000	PEAK
2		2412.060	0.428	53.180	53.609	-20.391	74.000	PEAK
3	*	4825.360	7.350	52.180	59.531	-14.469	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:17**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 2: Transmit by 802.11g (2412MHz) (An0)**

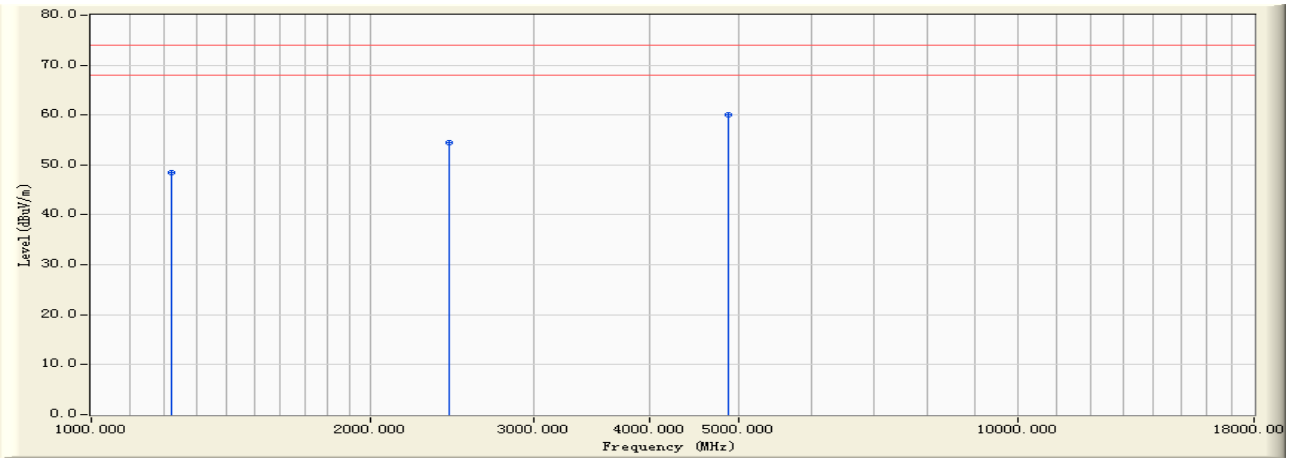


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.360	-5.883	34.260	28.376	-25.624	54.000	AVERAGE
2		2412.060	0.428	33.180	33.609	-20.391	54.000	AVERAGE
3	*	4825.360	7.350	32.180	39.531	-14.469	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:19**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 2: Transmit by 802.11g (2437MHz) (An0)**

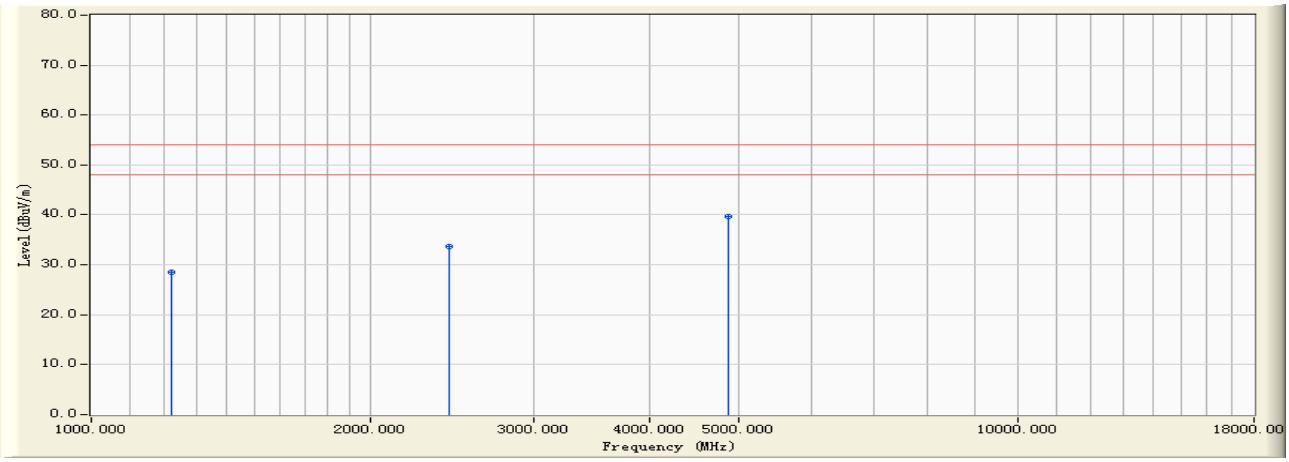


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.150	-5.760	54.320	48.559	-25.441	74.000	PEAK
2		2437.030	0.509	53.870	54.379	-19.621	74.000	PEAK
3	*	4875.360	7.459	52.640	60.100	-13.900	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:19**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 2: Transmit by 802.11g (2437MHz) (An0)**

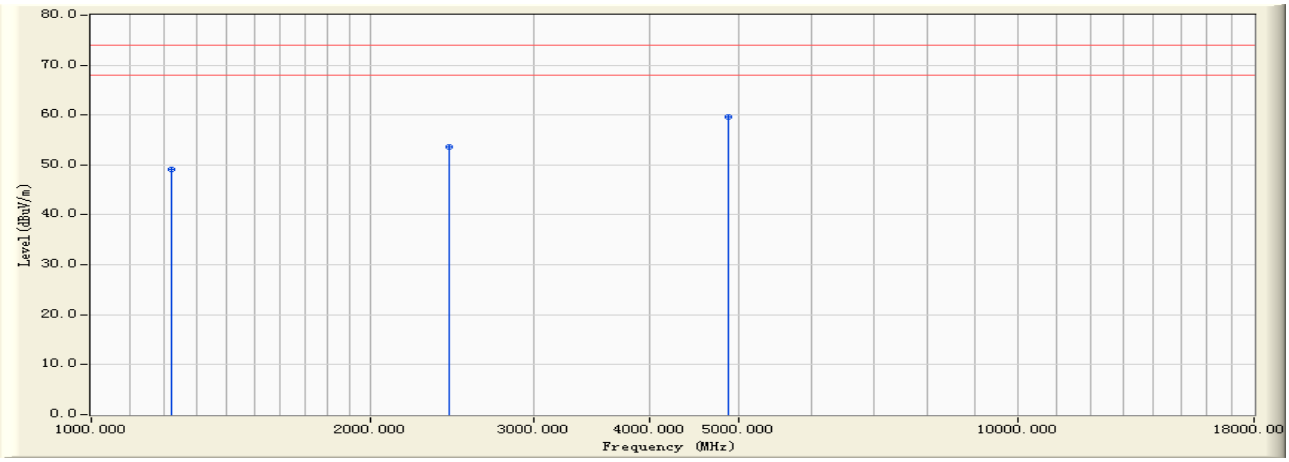


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.150	-5.760	34.260	28.499	-25.501	54.000	AVERAGE
2		2437.030	0.509	33.160	33.669	-20.331	54.000	AVERAGE
3	*	4875.360	7.459	32.190	39.650	-14.350	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:21**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 2: Transmit by 802.11g (2437MHz) (An0)**

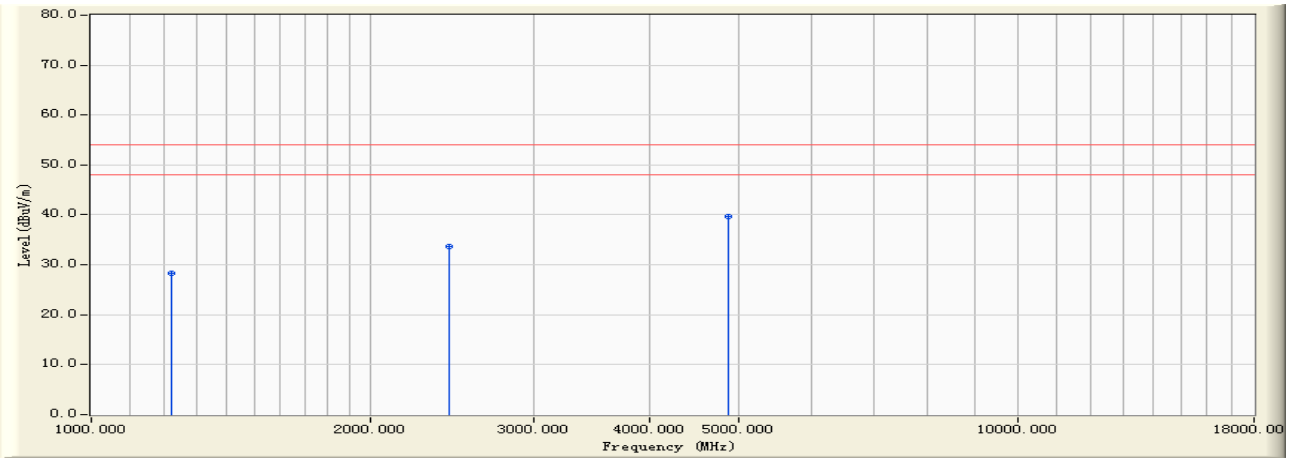


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.320	-5.759	54.870	49.111	-24.889	74.000	PEAK
2		2437.160	0.510	53.160	53.670	-20.330	74.000	PEAK
3	*	4875.340	7.459	52.180	59.639	-14.361	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:21**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 2: Transmit by 802.11g (2437MHz) (An0)**

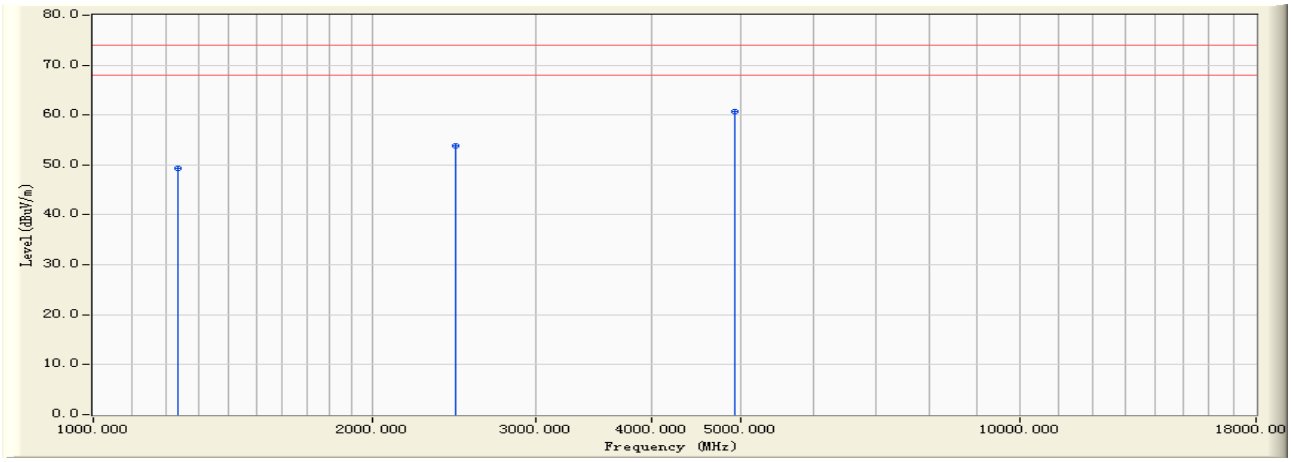


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.320	-5.759	34.160	28.401	-25.599	54.000	AVERAGE
2		2437.160	0.510	33.260	33.770	-20.230	54.000	AVERAGE
3	*	4875.340	7.459	32.180	39.639	-14.361	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:23**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 2: Transmit by 802.11g (2462MHz) (An0)**

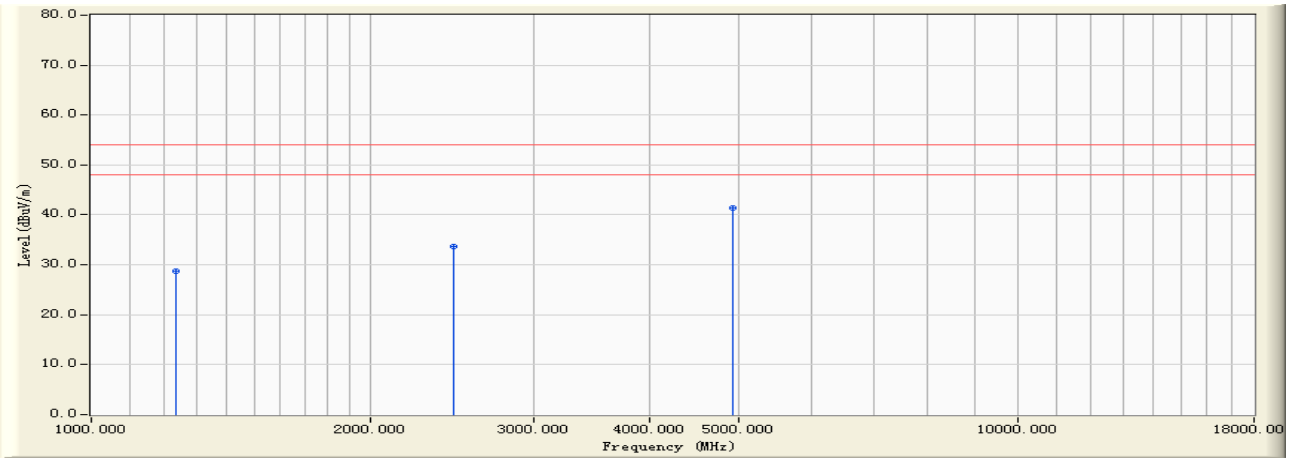


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1232.150	-5.617	54.890	49.273	-24.727	74.000	PEAK
2		2462.130	0.600	53.260	53.860	-20.140	74.000	PEAK
3	*	4925.370	7.567	53.160	60.727	-13.273	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:23**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 2: Transmit by 802.11g (2462MHz) (An0)**

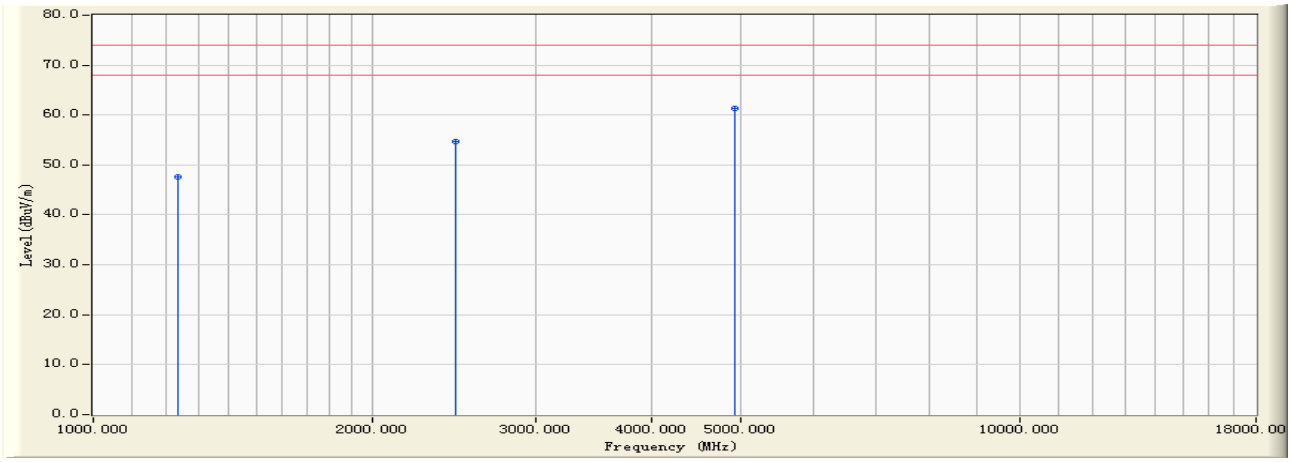


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1232.150	-5.617	34.260	28.643	-25.357	54.000	AVERAGE
2		2462.130	0.600	33.160	33.760	-20.240	54.000	AVERAGE
3	*	4925.370	7.567	33.870	41.437	-12.563	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:24**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 2: Transmit by 802.11g (2462MHz) (An0)**

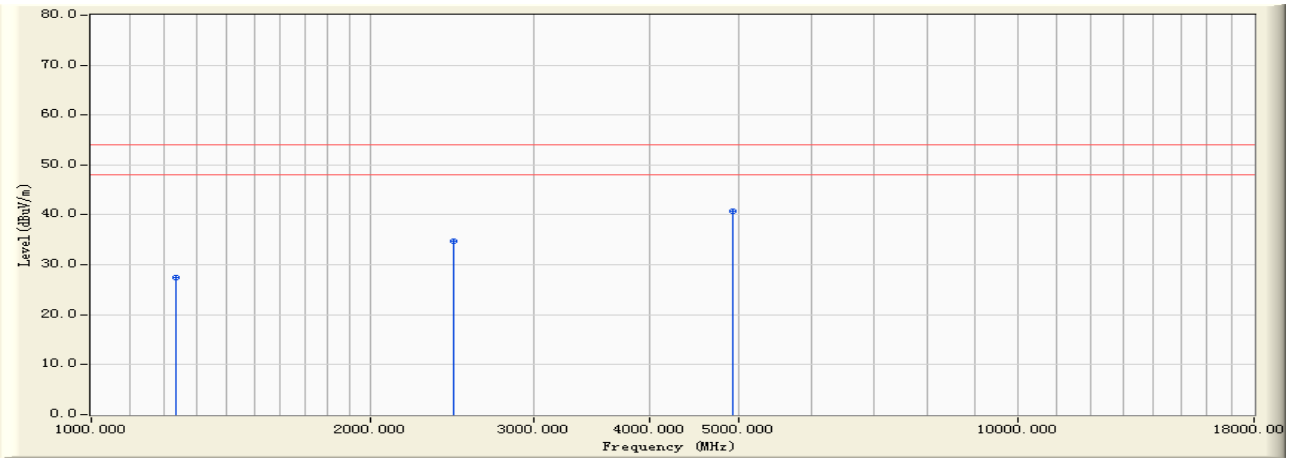


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1232.450	-5.613	53.180	47.566	-26.434	74.000	PEAK
2		2462.100	0.600	54.130	54.730	-19.270	74.000	PEAK
3	*	4925.160	7.567	53.870	61.437	-12.563	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:24**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 2: Transmit by 802.11g (2462MHz) (An0)**

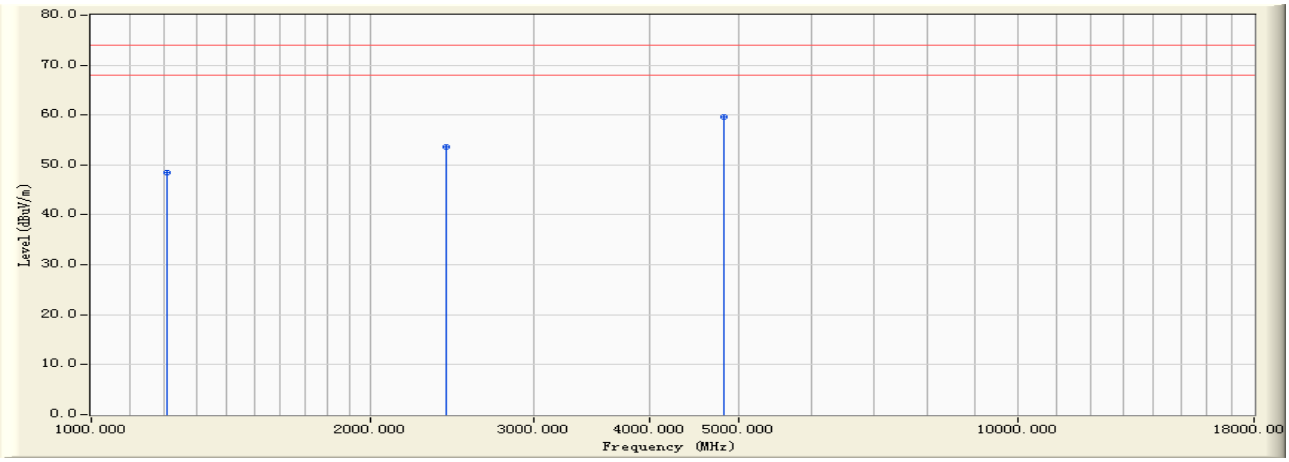


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1232.450	-5.613	33.160	27.546	-26.454	54.000	AVERAGE
2		2462.100	0.600	34.160	34.760	-19.240	54.000	AVERAGE
3	*	4925.160	7.567	33.270	40.837	-13.163	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:31**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n(20MHz) (An0) (2412MHz)**

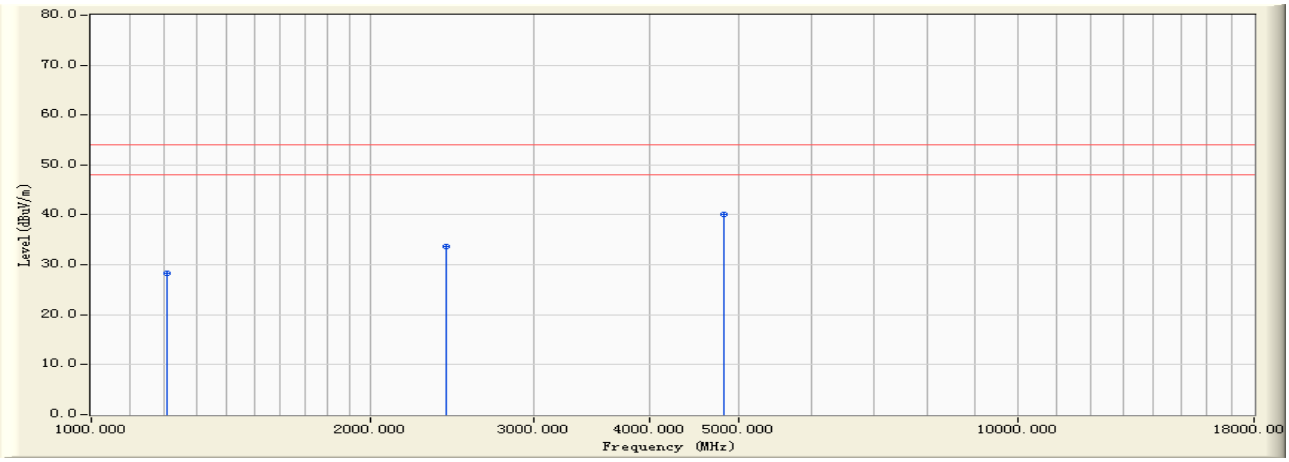


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.350	-5.883	54.290	48.406	-25.594	74.000	PEAK
2		2412.030	0.428	53.180	53.609	-20.391	74.000	PEAK
3	*	4825.130	7.350	52.180	59.530	-14.470	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:31**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n(20MHz) (An0) (2412MHz)**

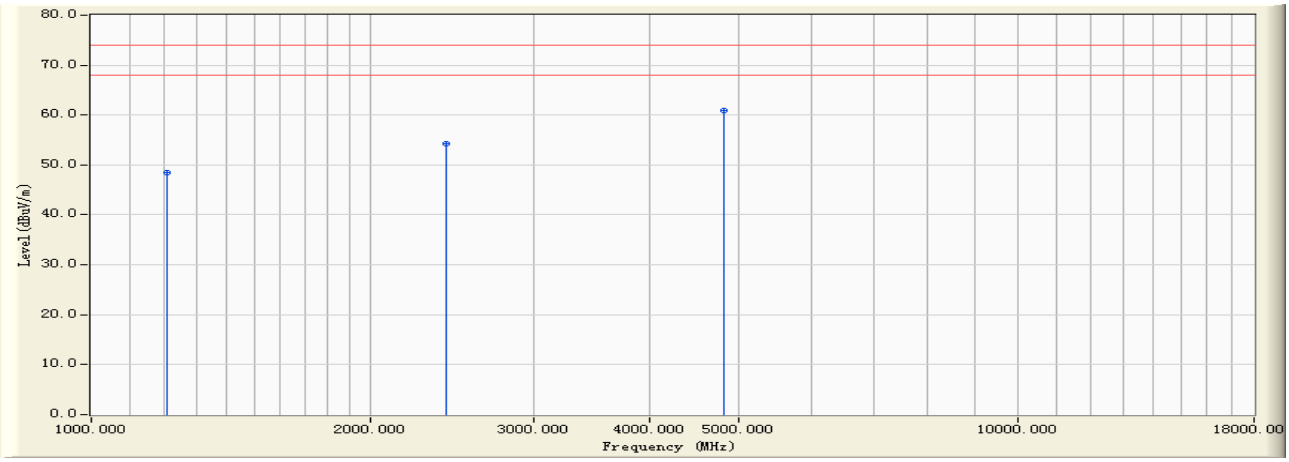


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.350	-5.883	34.260	28.376	-25.624	54.000	AVERAGE
2		2412.030	0.428	33.290	33.719	-20.281	54.000	AVERAGE
3	*	4825.130	7.350	32.660	40.010	-13.990	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:33**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n(20MHz) (An0) (2412MHz)**

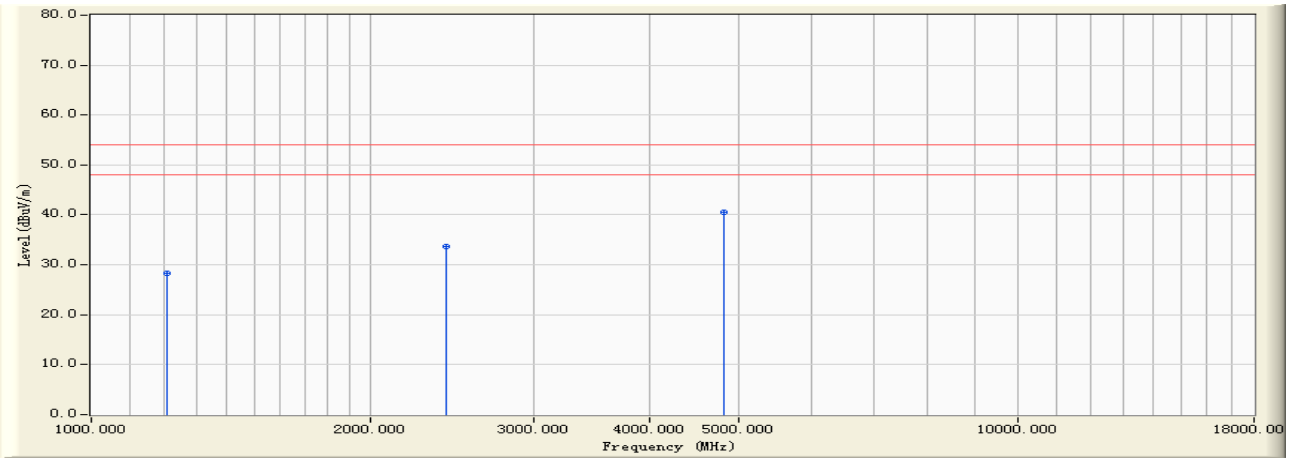


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.390	-5.883	54.260	48.377	-25.623	74.000	PEAK
2		2412.080	0.428	53.870	54.299	-19.701	74.000	PEAK
3	*	4825.360	7.350	53.480	60.831	-13.169	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:33**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n(20MHz) (An0) (2412MHz)**

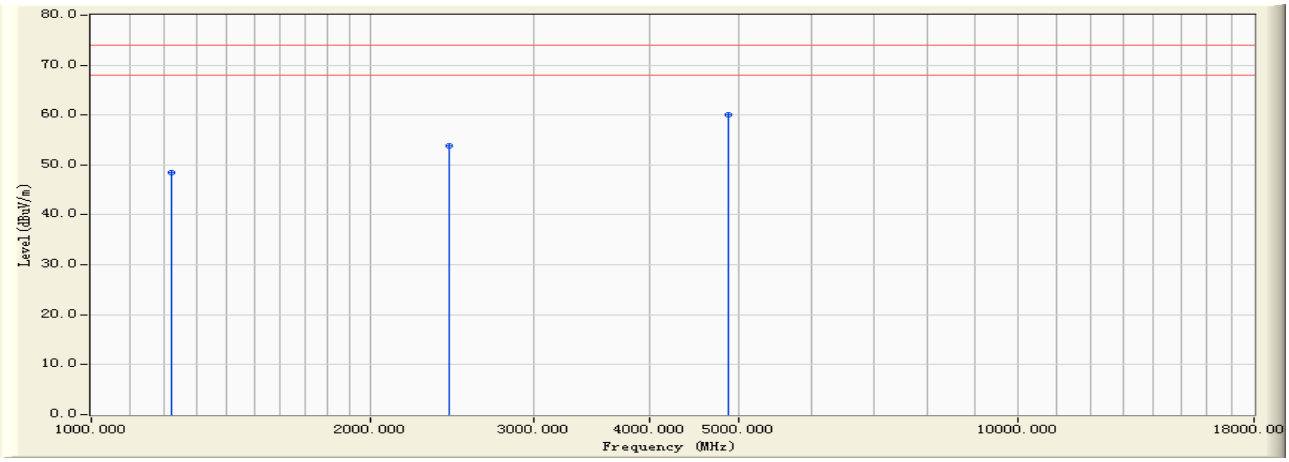


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1207.390	-5.883	34.260	28.377	-25.623	54.000	AVERAGE
2		2412.080	0.428	33.260	33.689	-20.311	54.000	AVERAGE
3	*	4825.360	7.350	33.290	40.641	-13.359	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:34**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n(20MHz) (An0) (2437MHz)**

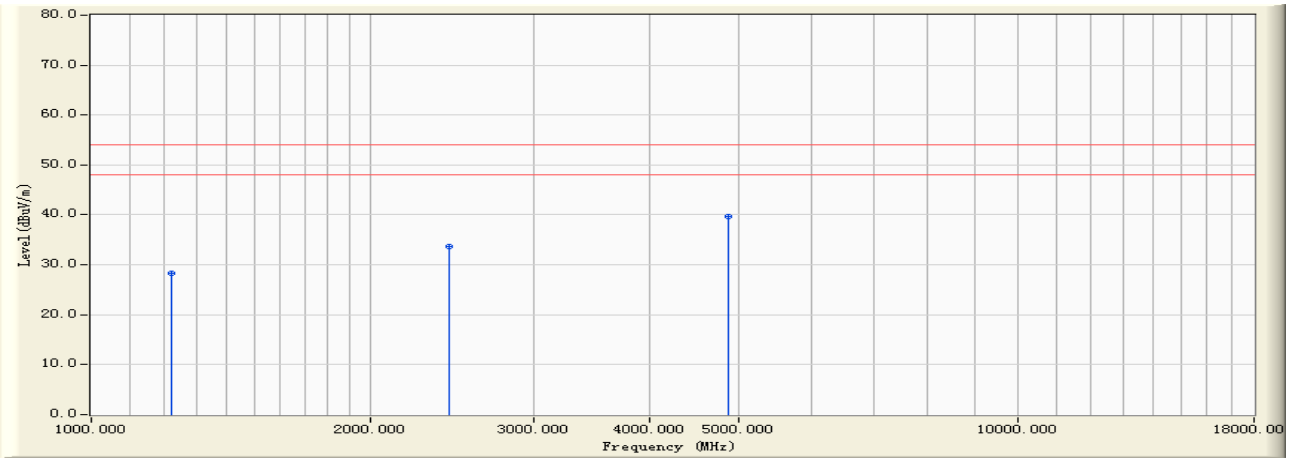


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.350	-5.759	54.310	48.552	-25.448	74.000	PEAK
2		2437.060	0.509	53.290	53.799	-20.201	74.000	PEAK
3	*	4875.310	7.459	52.680	60.139	-13.861	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:34**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n(20MHz) (An0) (2437MHz)**

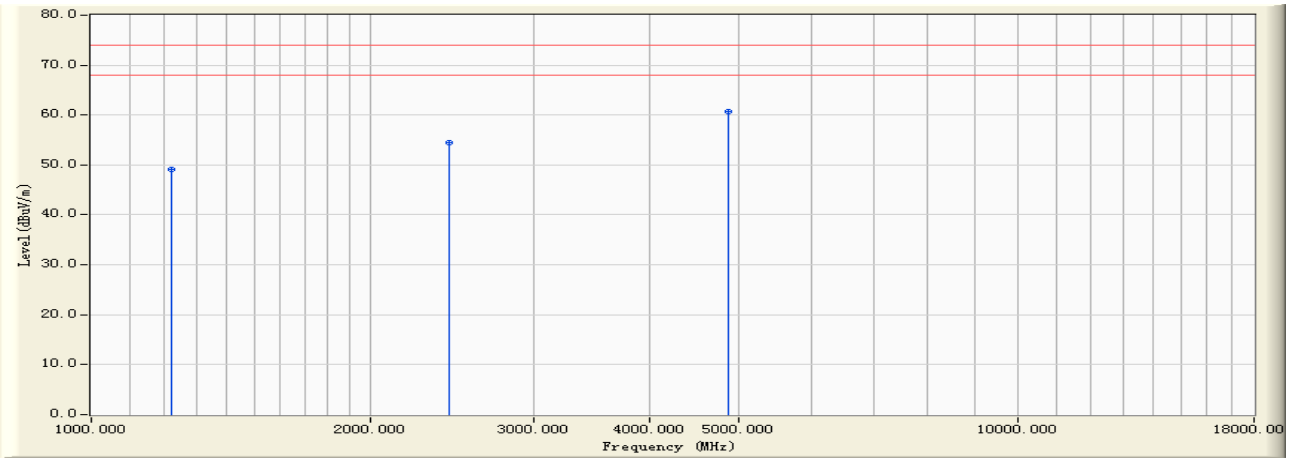


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.350	-5.759	34.160	28.402	-25.598	54.000	AVERAGE
2		2437.060	0.509	33.190	33.699	-20.301	54.000	AVERAGE
3	*	4875.310	7.459	32.180	39.639	-14.361	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:36**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n(20MHz) (An0) (2437MHz)**

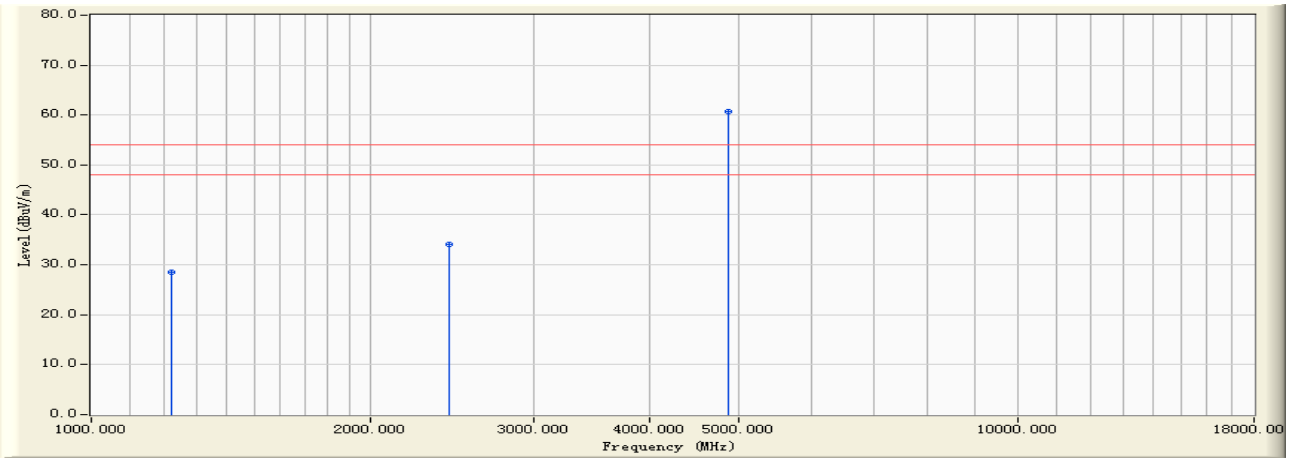


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.360	-5.759	54.870	49.112	-24.888	74.000	PEAK
2		2437.040	0.509	53.870	54.379	-19.621	74.000	PEAK
3	*	4875.960	7.461	53.180	60.641	-13.359	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:36**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n(20MHz) (An0) (2437MHz)**

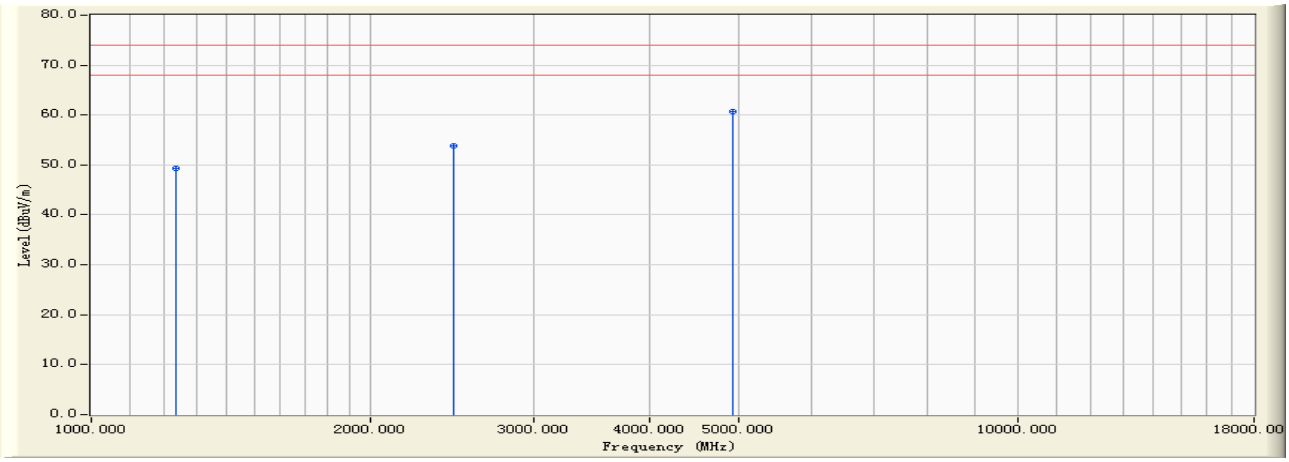


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.360	-5.759	34.250	28.492	-25.508	54.000	AVERAGE
2		2437.040	0.509	33.640	34.149	-19.851	54.000	AVERAGE
3	*	4875.960	7.461	53.280	60.741	6.741	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:39**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n(20MHz) (An0) (2462MHz)**

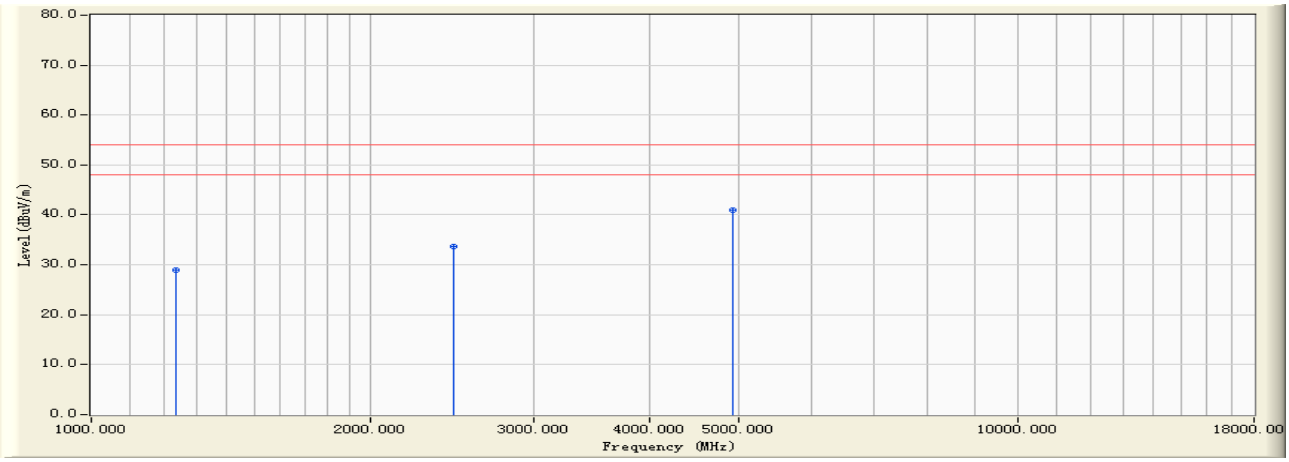


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1232.460	-5.613	54.980	49.366	-24.634	74.000	PEAK
2		2462.060	0.600	53.190	53.790	-20.210	74.000	PEAK
3	*	4925.370	7.567	53.160	60.727	-13.273	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:39**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n(20MHz) (An0) (2462MHz)**

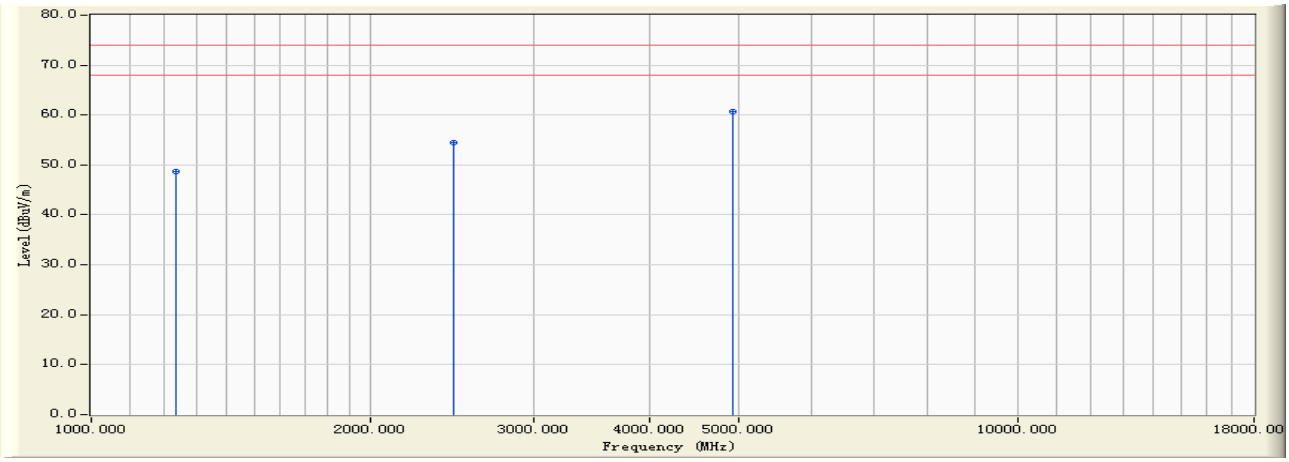


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1232.460	-5.613	34.620	29.006	-24.994	54.000	AVERAGE
2		2462.060	0.600	33.160	33.760	-20.240	54.000	AVERAGE
3	*	4925.370	7.567	33.490	41.057	-12.943	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:40**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n(20MHz) (An0) (2462MHz)**

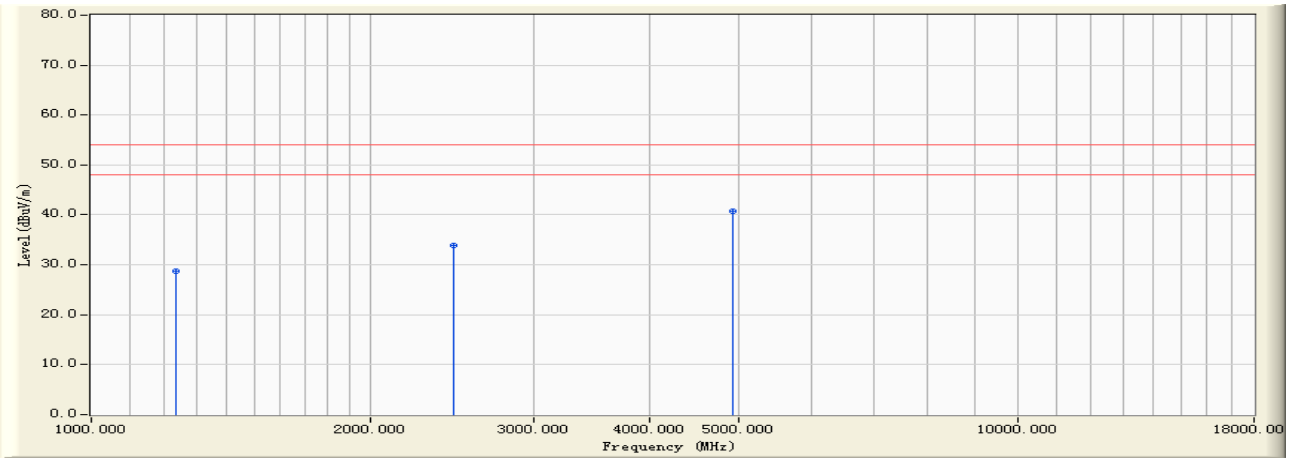


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1232.640	-5.612	54.360	48.748	-25.252	74.000	PEAK
2		2462.010	0.600	53.890	54.490	-19.510	74.000	PEAK
3	*	4926.370	7.570	53.180	60.750	-13.250	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:40**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 3: Transmit by 802.11n(20MHz) (An0) (2462MHz)**

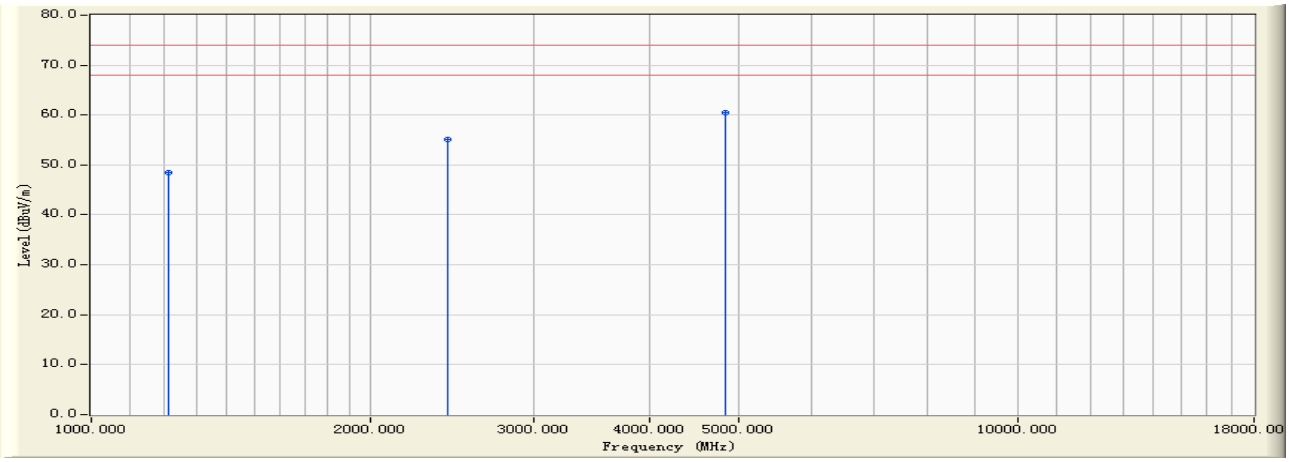


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1232.640	-5.612	34.260	28.648	-25.352	54.000	AVERAGE
2		2462.010	0.600	33.260	33.860	-20.140	54.000	AVERAGE
3	*	4926.370	7.570	33.280	40.850	-13.150	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:42**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n(40MHz) (An0) (2422MHz)**

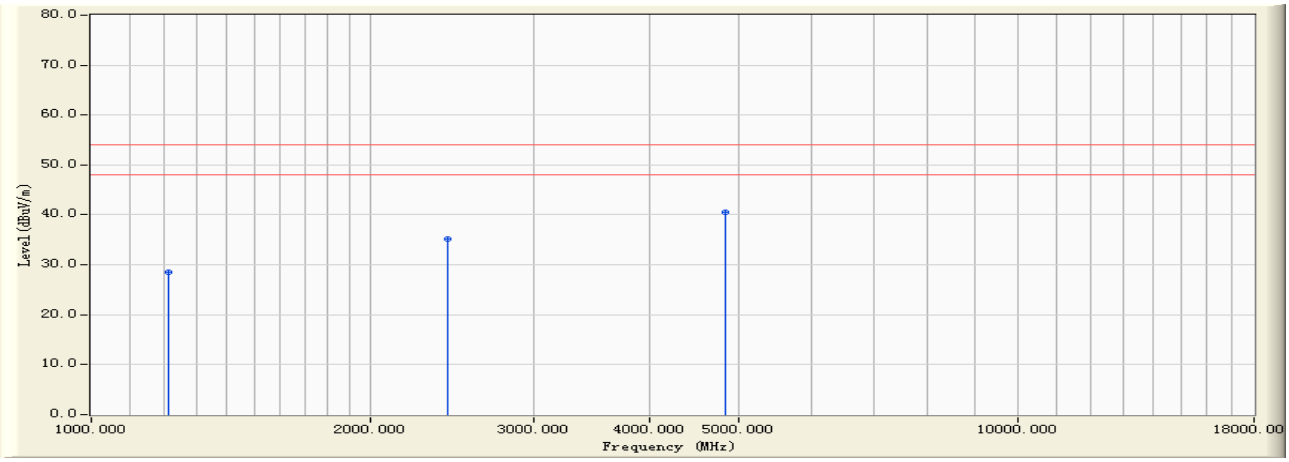


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1212.320	-5.832	54.260	48.428	-25.572	74.000	PEAK
2		2422.035	0.463	54.690	55.153	-18.847	74.000	PEAK
3	*	4845.310	7.392	53.160	60.552	-13.448	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:42**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n(40MHz) (An0) (2422MHz)**

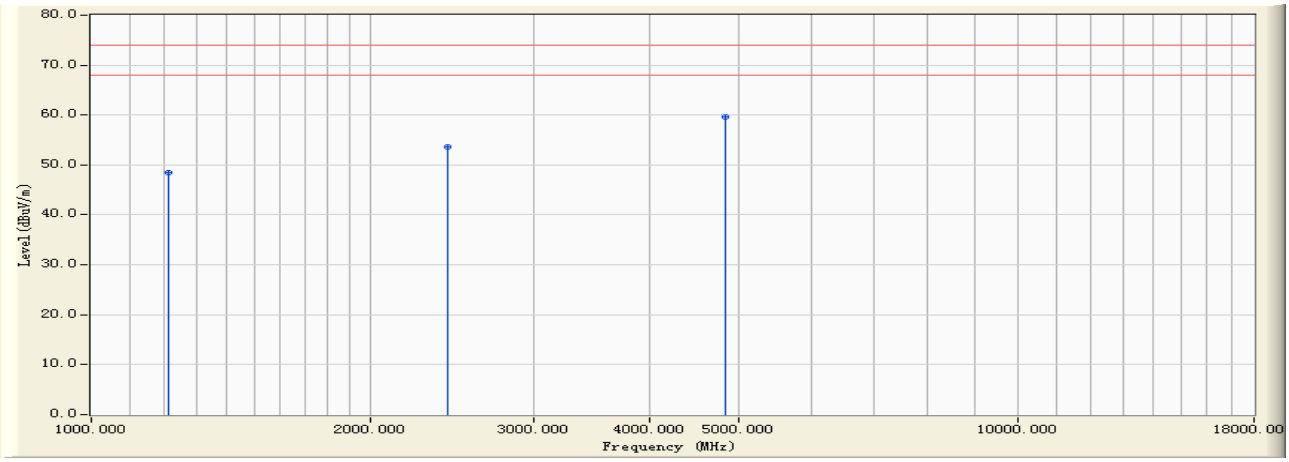


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1212.320	-5.832	34.260	28.428	-25.572	54.000	AVERAGE
2		2422.035	0.463	34.620	35.083	-18.917	54.000	AVERAGE
3	*	4845.310	7.392	33.160	40.552	-13.448	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:44**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n(40MHz) (An0) (2422MHz)**

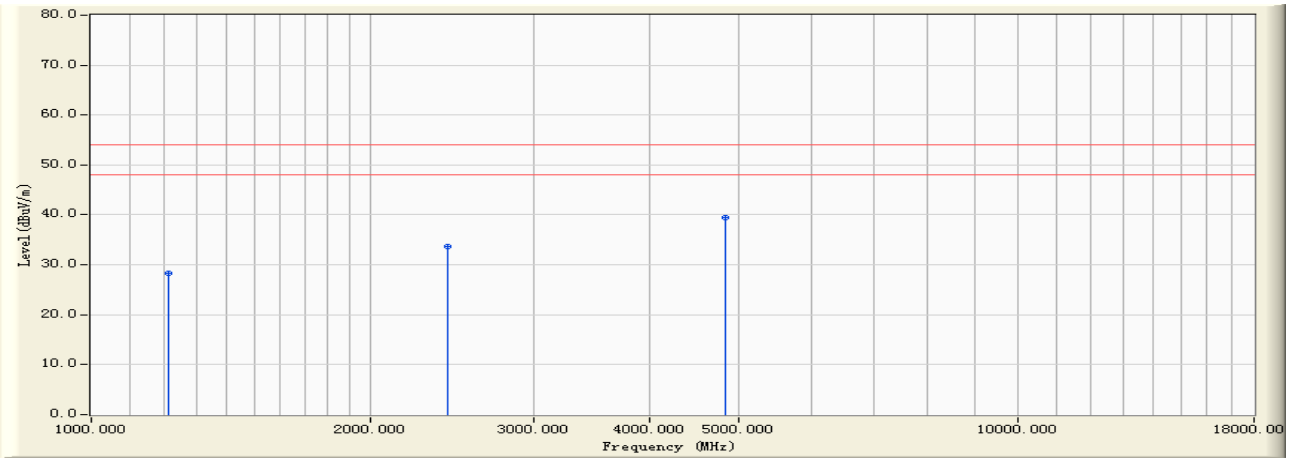


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1212.350	-5.831	54.310	48.478	-25.522	74.000	PEAK
2		2422.060	0.462	53.160	53.623	-20.377	74.000	PEAK
3	*	4845.360	7.392	52.190	59.582	-14.418	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:44**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n(40MHz) (An0) (2422MHz)**

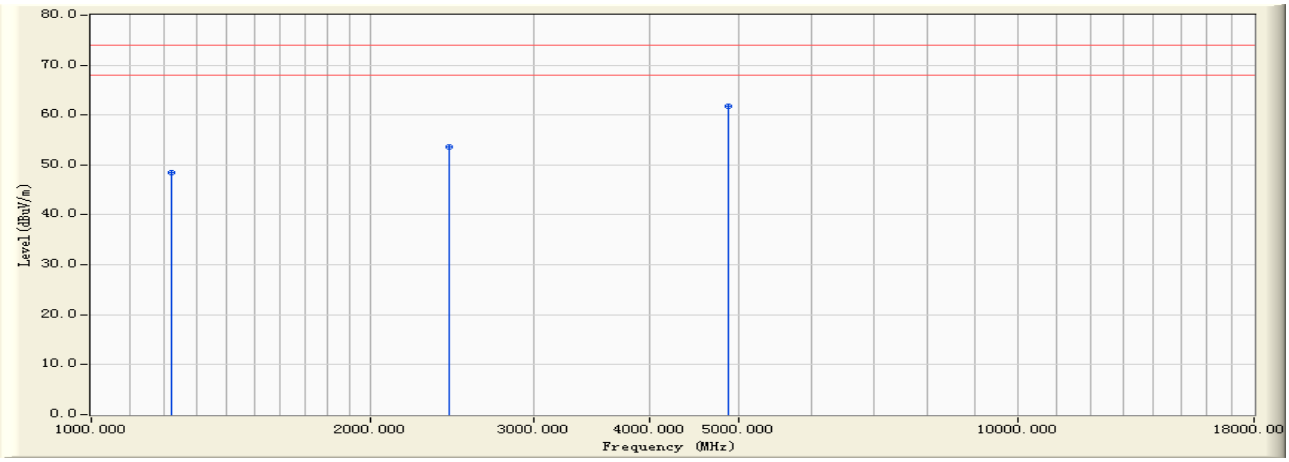


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1212.350	-5.831	34.160	28.328	-25.672	54.000	AVERAGE
2		2422.060	0.462	33.160	33.623	-20.377	54.000	AVERAGE
3	*	4845.360	7.392	32.160	39.552	-14.448	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:47**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n(40MHz) (An0) (2437MHz)**

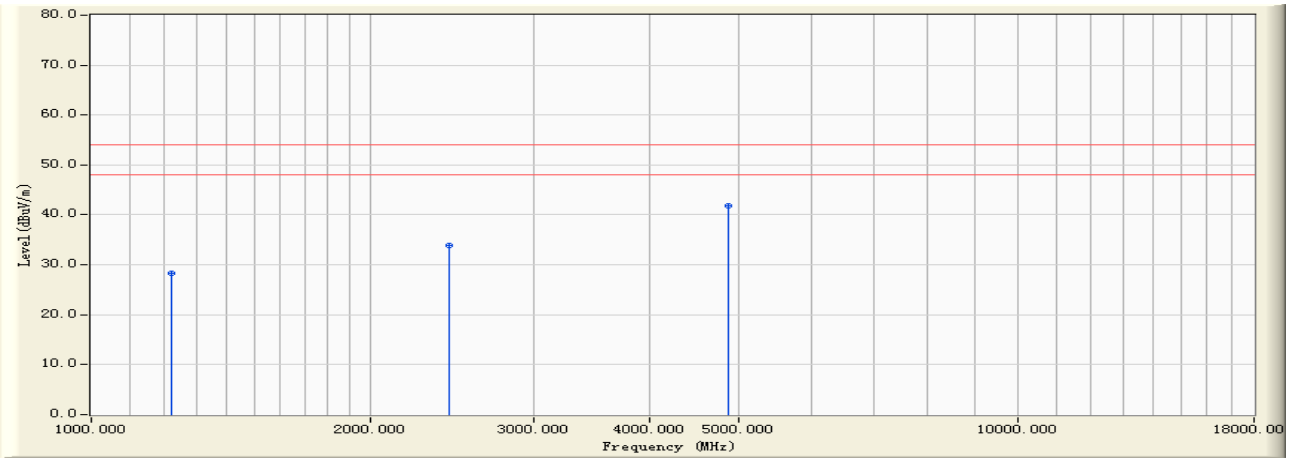


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.360	-5.759	54.130	48.372	-25.628	74.000	PEAK
2		2437.060	0.509	53.160	53.669	-20.331	74.000	PEAK
3	*	4875.310	7.459	54.360	61.819	-12.181	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:47**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n(40MHz) (An0) (2437MHz)**

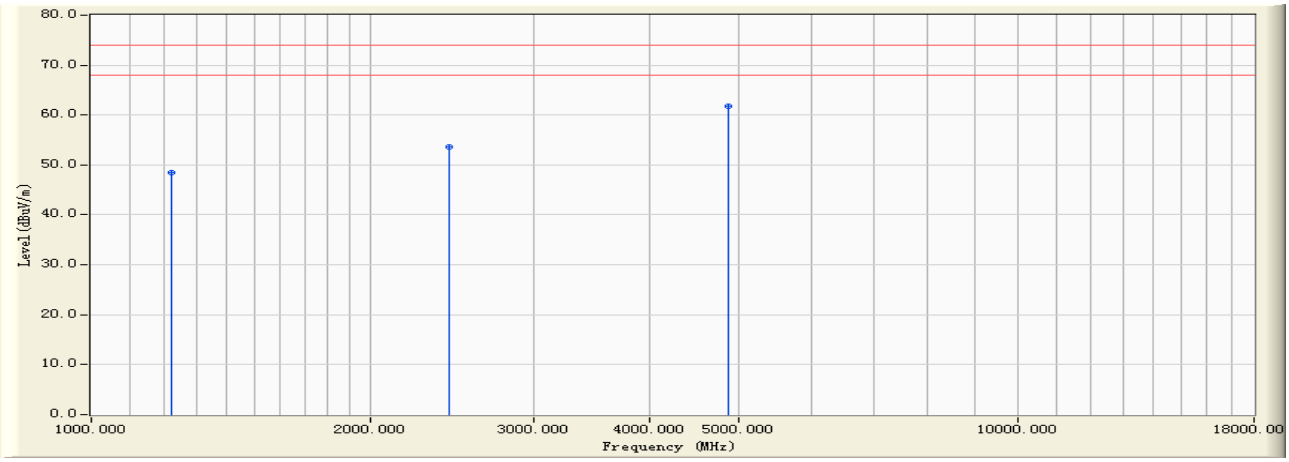


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.360	-5.759	34.160	28.402	-25.598	54.000	AVERAGE
2		2437.060	0.509	33.290	33.799	-20.201	54.000	AVERAGE
3	*	4875.310	7.459	34.260	41.719	-12.281	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:48**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n(40MHz) (An0) (2437MHz)**

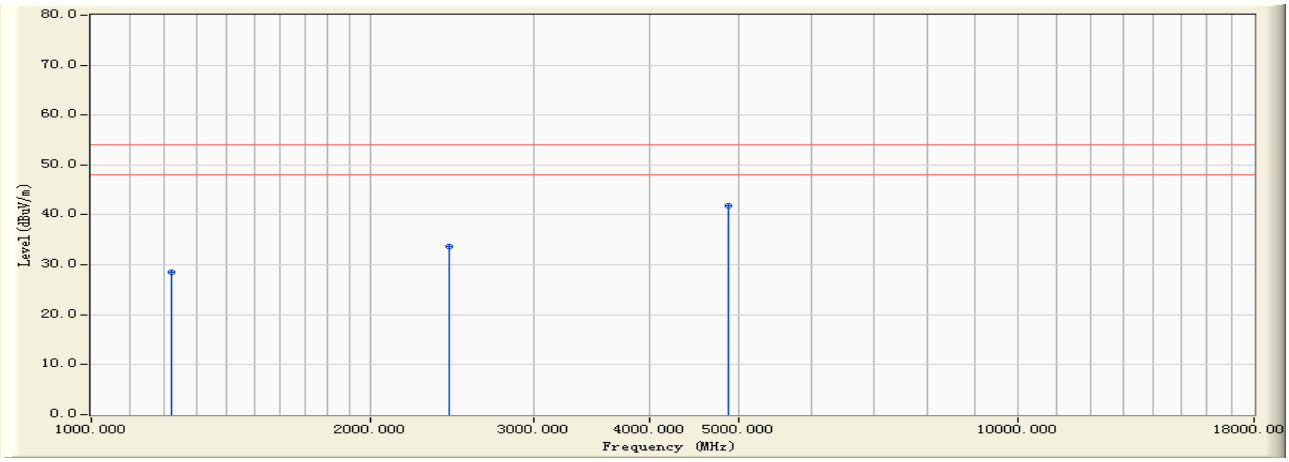


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.350	-5.759	54.310	48.552	-25.448	74.000	PEAK
2		2437.160	0.510	53.190	53.700	-20.300	74.000	PEAK
3	*	4875.340	7.459	54.360	61.819	-12.181	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:48**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n(40MHz) (An0) (2437MHz)**

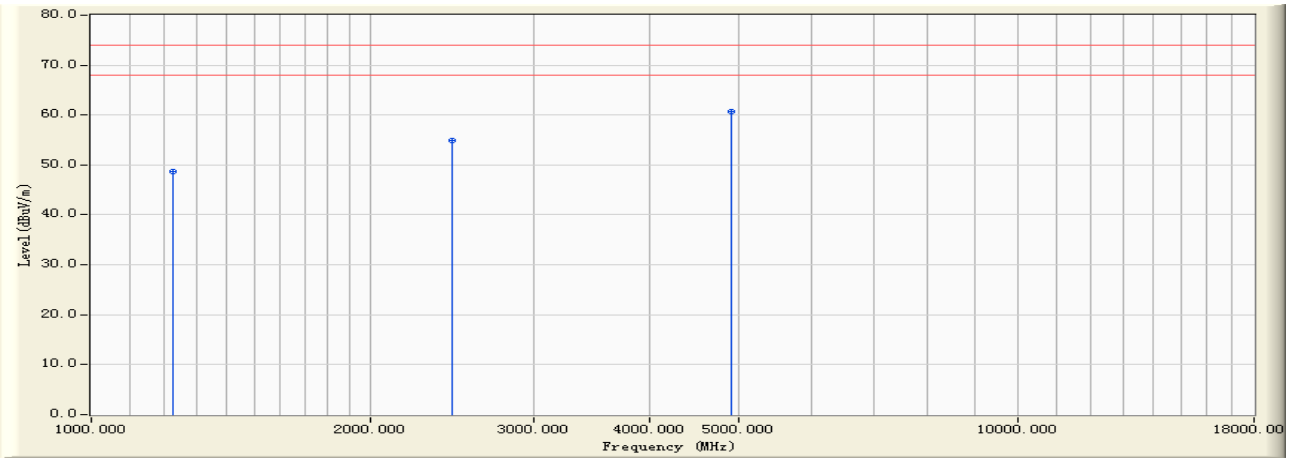


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1219.350	-5.759	34.260	28.502	-25.498	54.000	AVERAGE
2		2437.160	0.510	33.160	33.670	-20.330	54.000	AVERAGE
3	*	4875.340	7.459	34.260	41.719	-12.281	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:50**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n(40MHz) (An0) (2452MHz)**

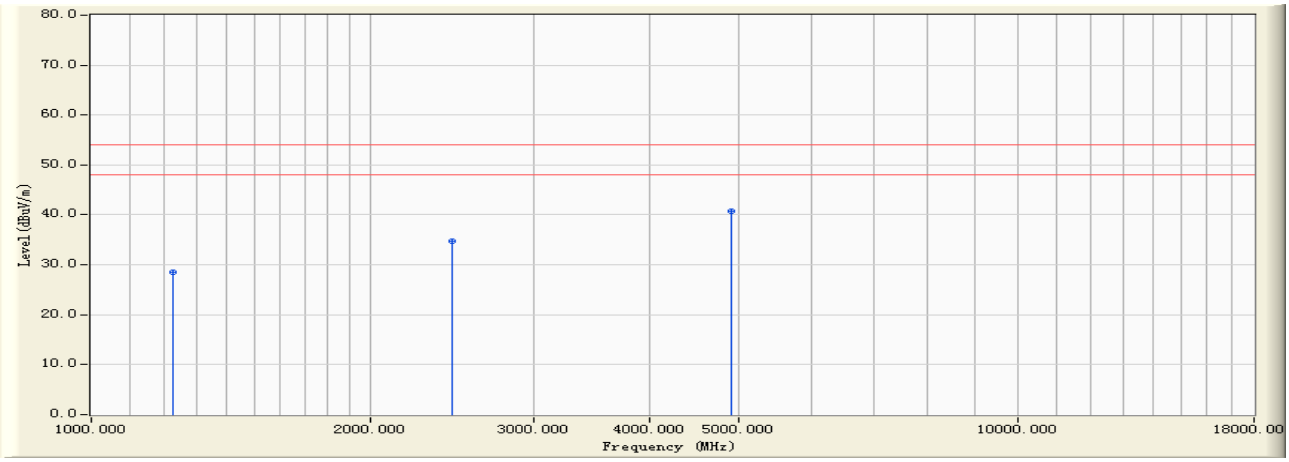


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1227.350	-5.671	54.310	48.639	-25.361	74.000	PEAK
2		2452.360	0.560	54.340	54.901	-19.099	74.000	PEAK
3	*	4905.160	7.526	53.160	60.686	-13.314	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:50**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n(40MHz) (An0) (2452MHz)**

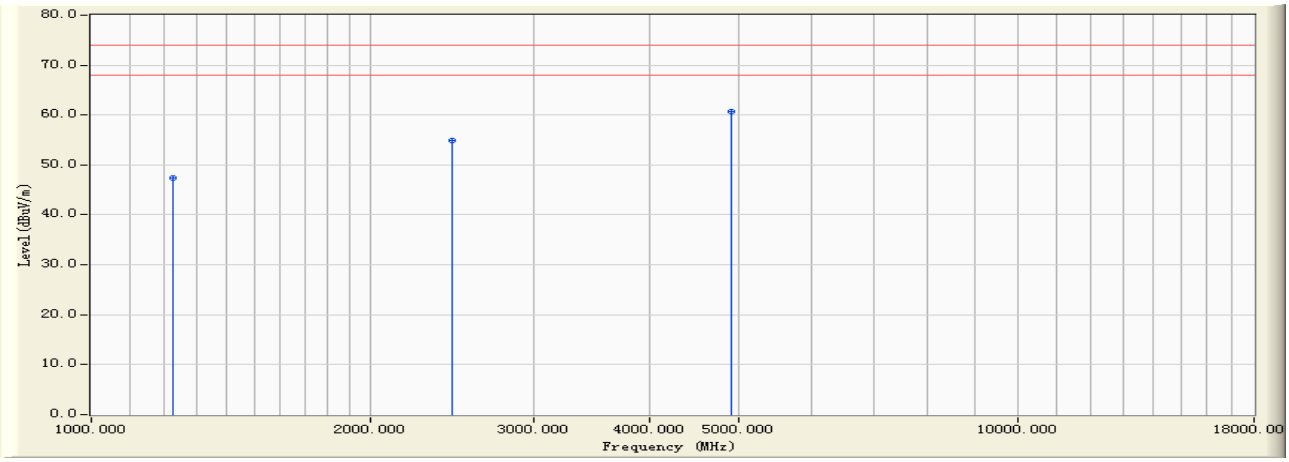


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1227.350	-5.671	34.160	28.489	-25.511	54.000	AVERAGE
2		2452.360	0.560	34.160	34.721	-19.279	54.000	AVERAGE
3	*	4905.320	7.526	33.290	40.817	-13.183	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:52**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n(40MHz) (An0) (2452MHz)**

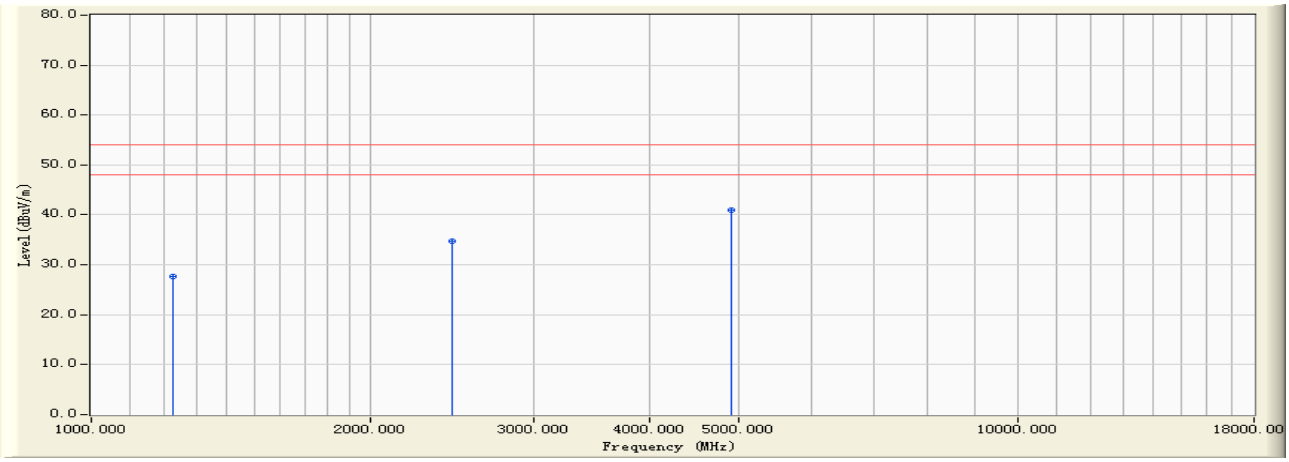


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1227.340	-5.671	53.160	47.489	-26.511	74.000	PEAK
2		2452.040	0.560	54.360	54.920	-19.080	74.000	PEAK
3	*	4905.340	7.527	53.160	60.687	-13.313	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/10 - 16:52**
Limit : FCC_15_03M_AV	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 4: Transmit by 802.11n(40MHz) (An0) (2452MHz)**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1227.340	-5.671	33.260	27.589	-26.411	54.000	AVERAGE
2		2452.040	0.560	34.160	34.720	-19.280	54.000	AVERAGE
3	*	4905.340	7.527	33.490	41.017	-12.983	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Test engineer: Fred Guo

5. Occupied Bandwidth

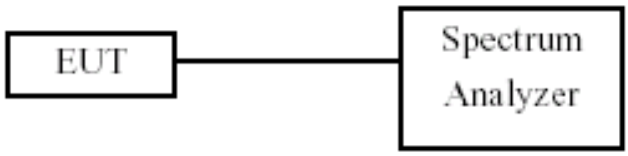
5.1. Test Limit

Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725- 5850 MHz band. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.2. Test Procedures

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.
Set RBW = 100 kHz, Span greater than RBW.

5.3. Test Setup Layout



5.4. Measurement Equipment

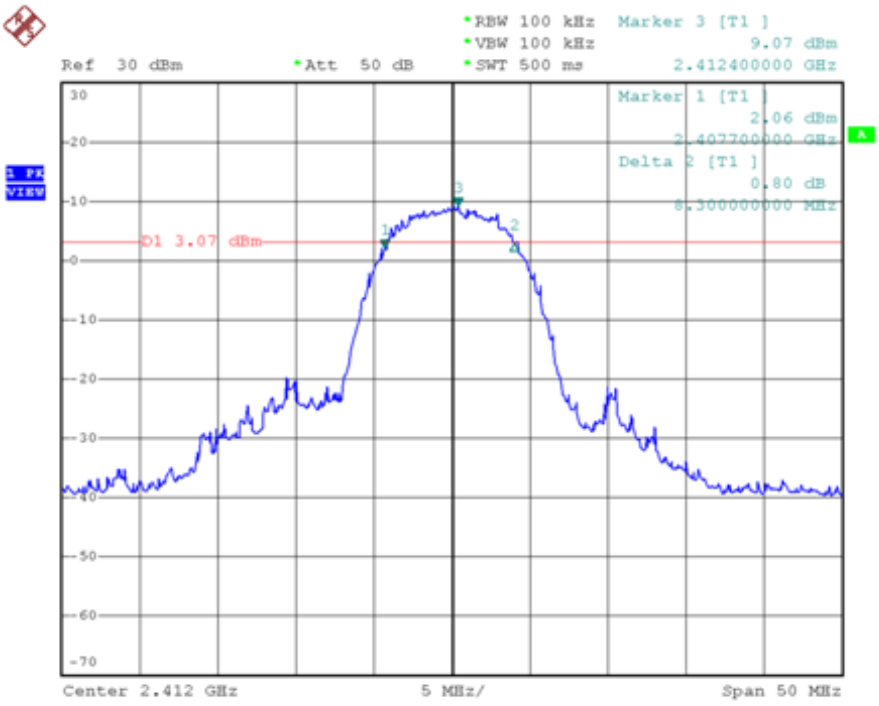
Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date
Spectrum Analyzer	R&S	FSP40	100324	2009.11.02
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2009.10.19

5.5. Test Result and Data

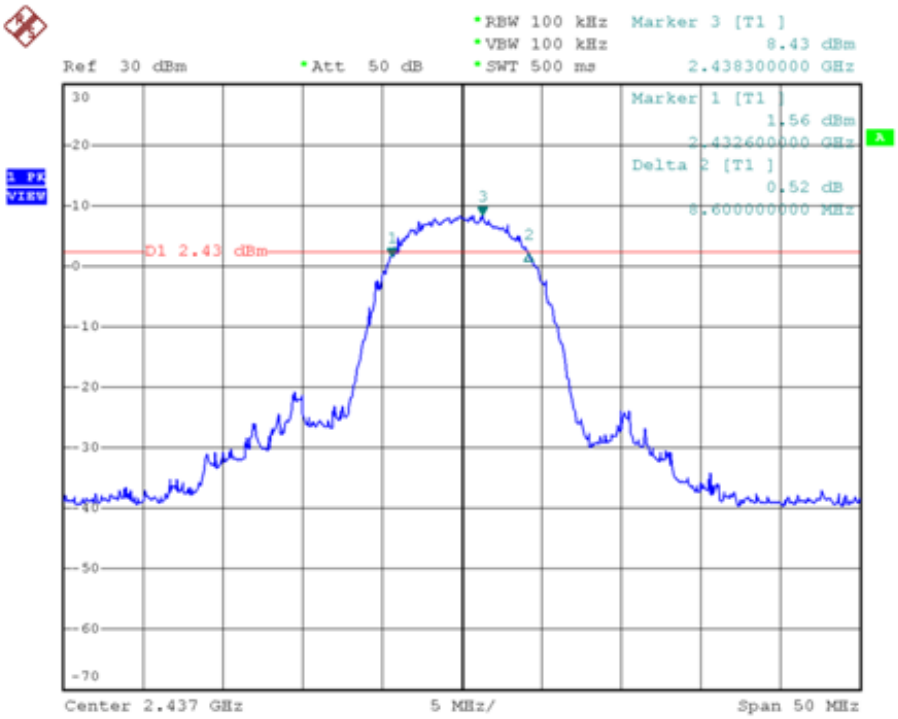
Test Item	Occupied Bandwidth
Test Mode	Mode 1:Transmit by 802.11b (An0)
Test Date	2010-05-08

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	8300	500	Pass
06	2437	8600	500	Pass
11	2462	8100	500	Pass

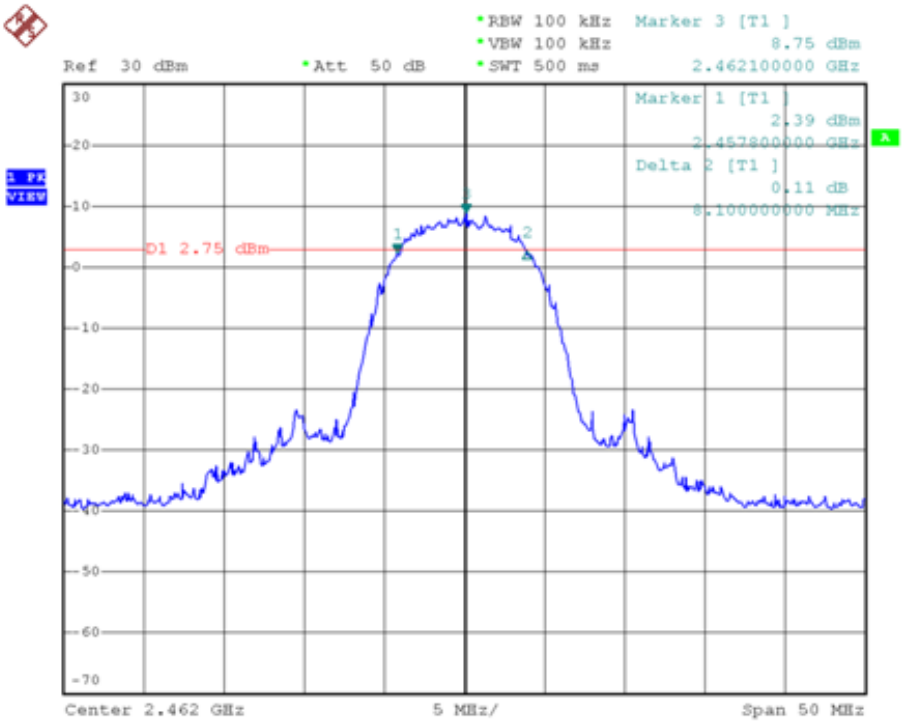
Channel 01 (2412MHz)



Channel 06 (2437MHz)



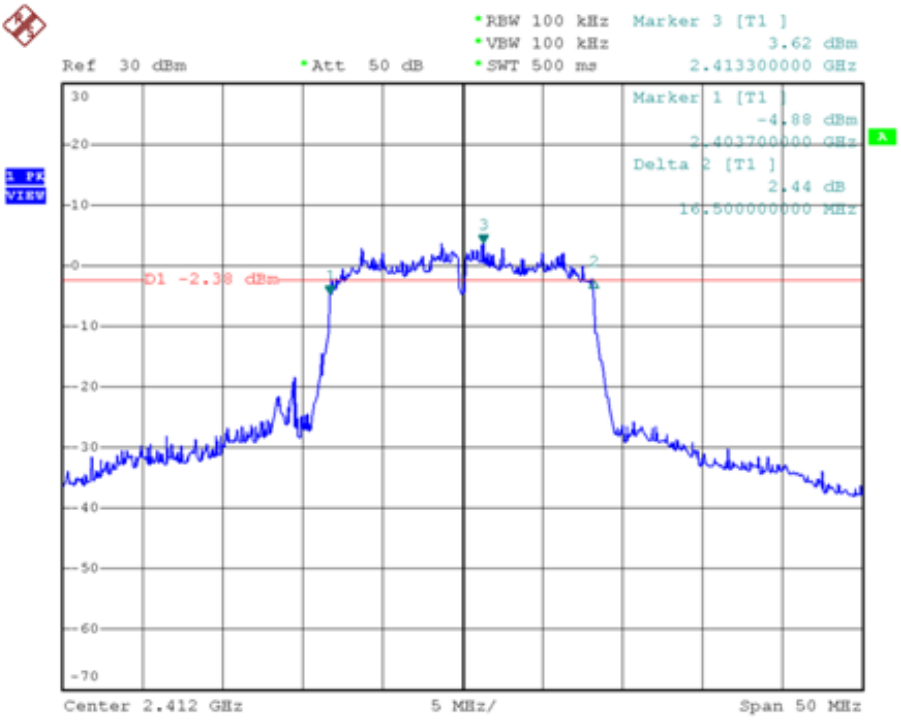
Channel 11 (2462MHz)



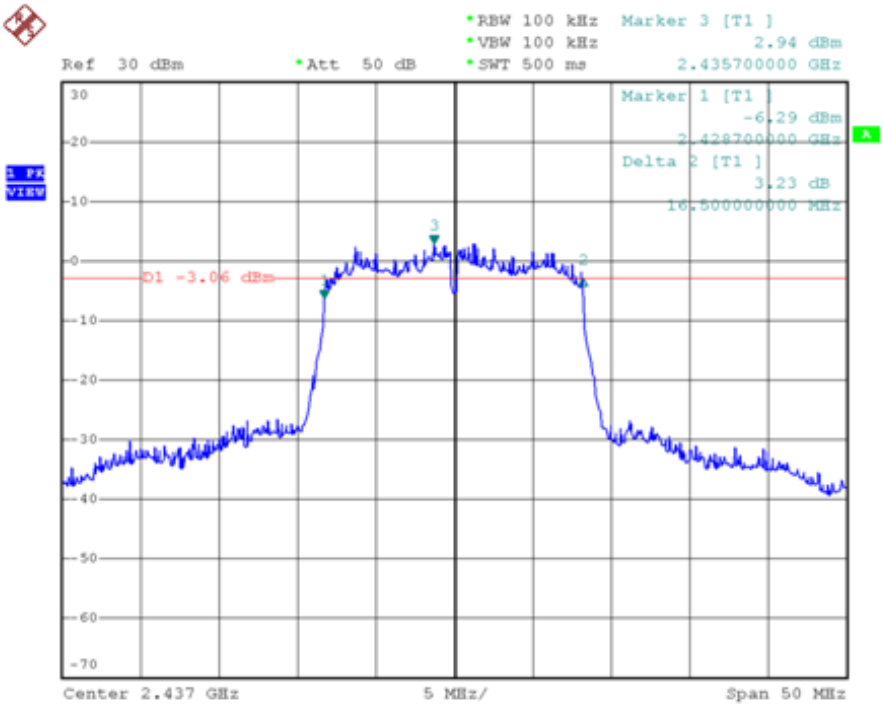
Test Item	Occupied Bandwidth
Test Mode	Mode 2:Transmit by 802.11g (An0)
Test Date	2010-05-08

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	16500	500	Pass
06	2437	16500	500	Pass
11	2462	16500	500	Pass

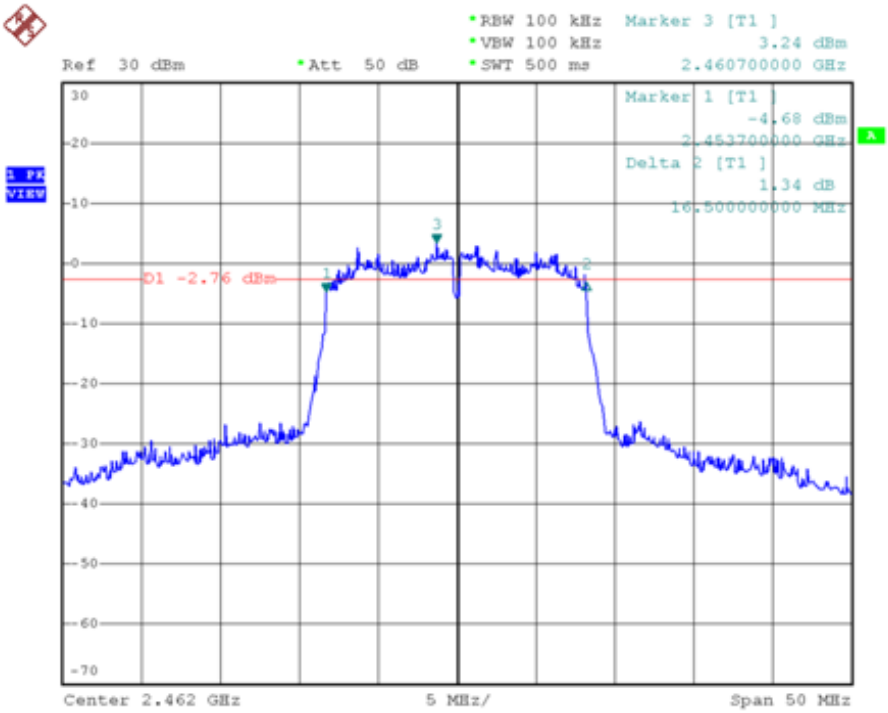
Channel 01 (2412MHz)



Channel 06 (2437MHz)



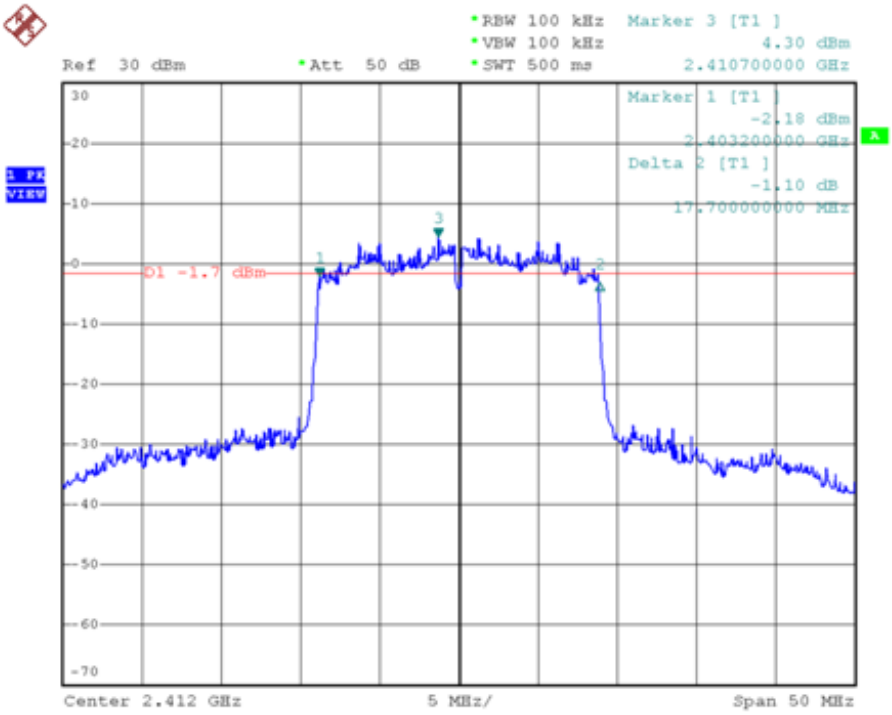
Channel 11 (2462MHz)



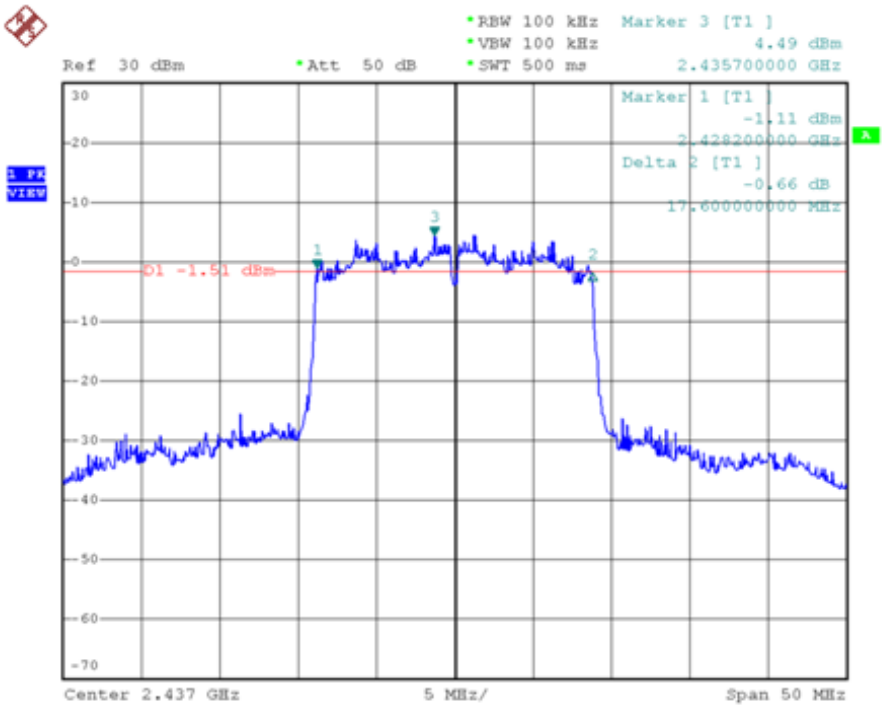
Test Item	Occupied Bandwidth
Test Mode	Mode 3: Transmit by 802.11n（20MHz）(An0)
Test Date	2010-05-08

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	17700	500	Pass
06	2437	17600	500	Pass
11	2462	17600	500	Pass

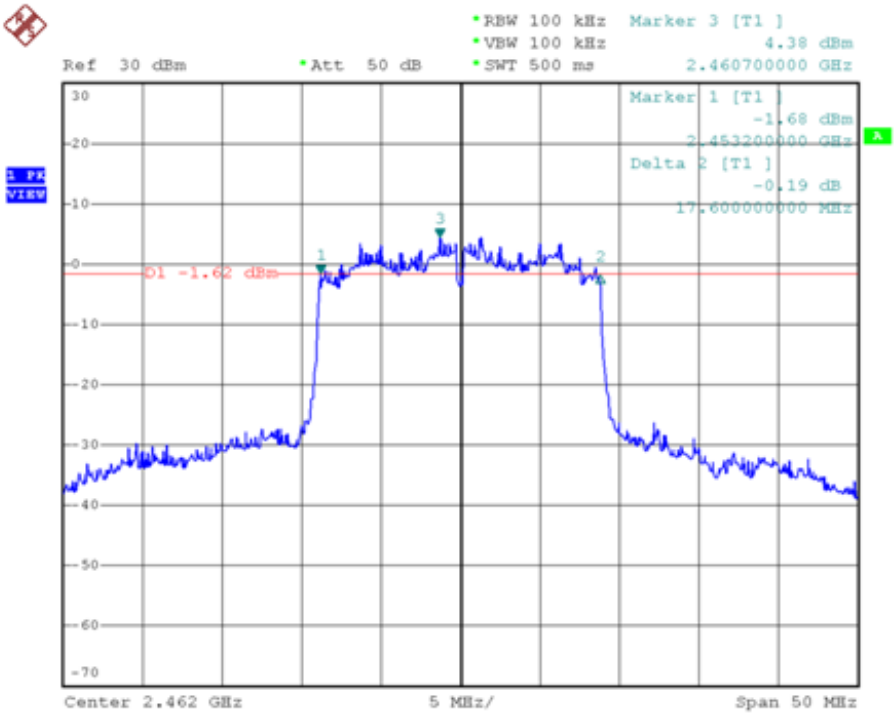
Channel 01 (2412MHz)



Channel 06 (2437MHz)



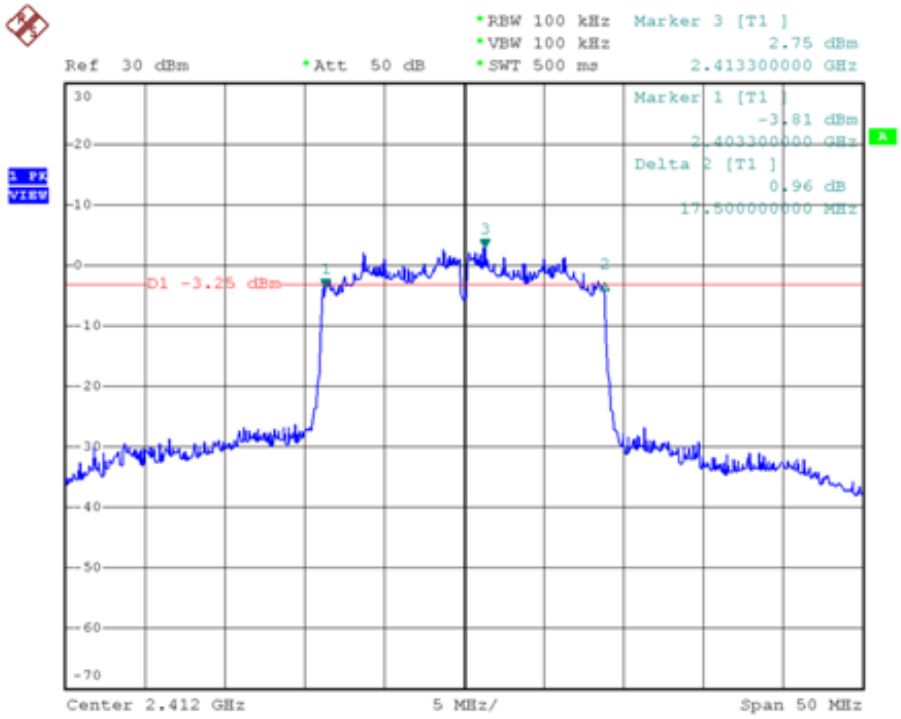
Channel 11 (2462MHz)



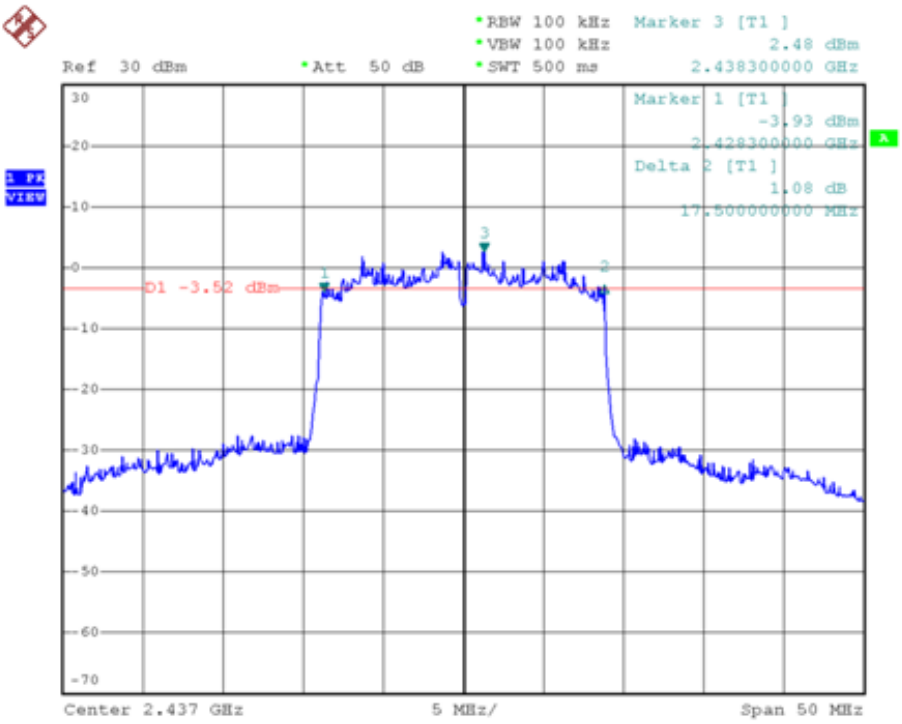
Test Item	Occupied Bandwidth
Test Mode	Mode 3: Transmit by 802.11n（20MHz）(An1)
Test Date	2010-05-08

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	17500	500	Pass
06	2437	17500	500	Pass
11	2462	17600	500	Pass

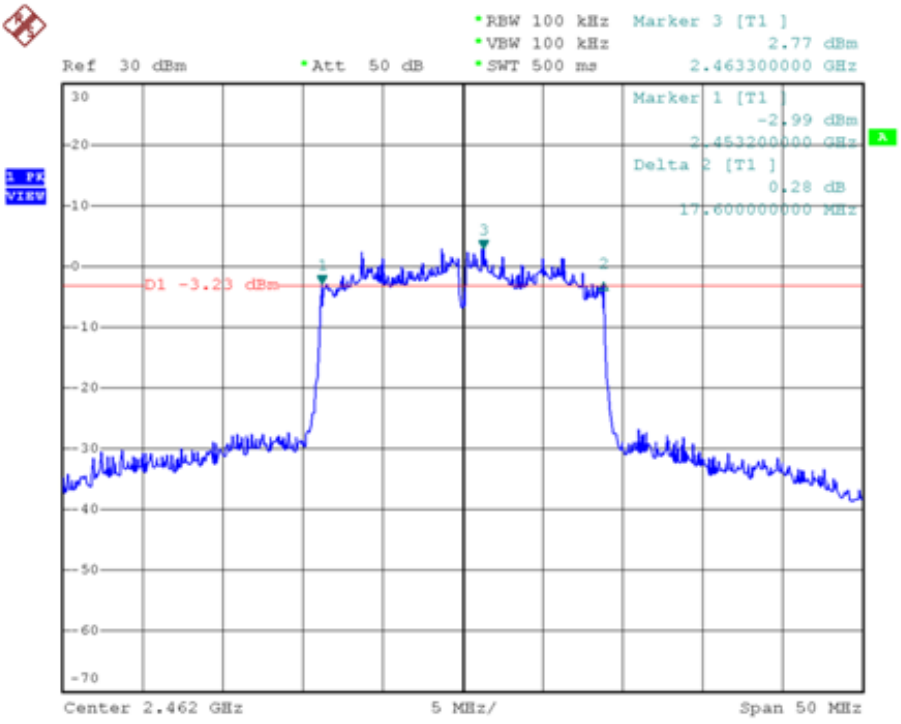
Channel 01 (2412MHz)



Channel 06 (2437MHz)



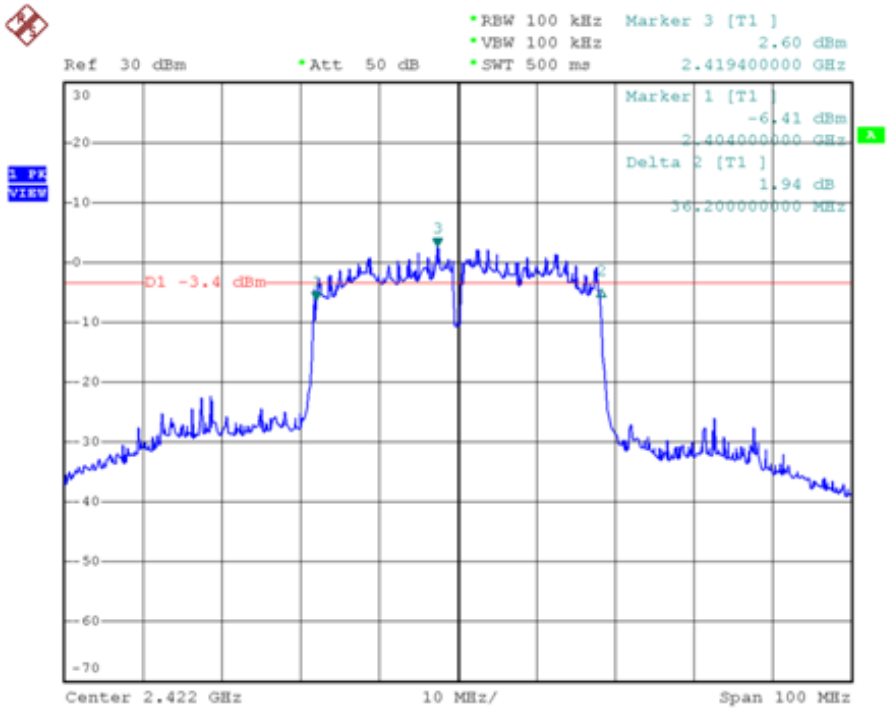
Channel 11 (2462MHz)



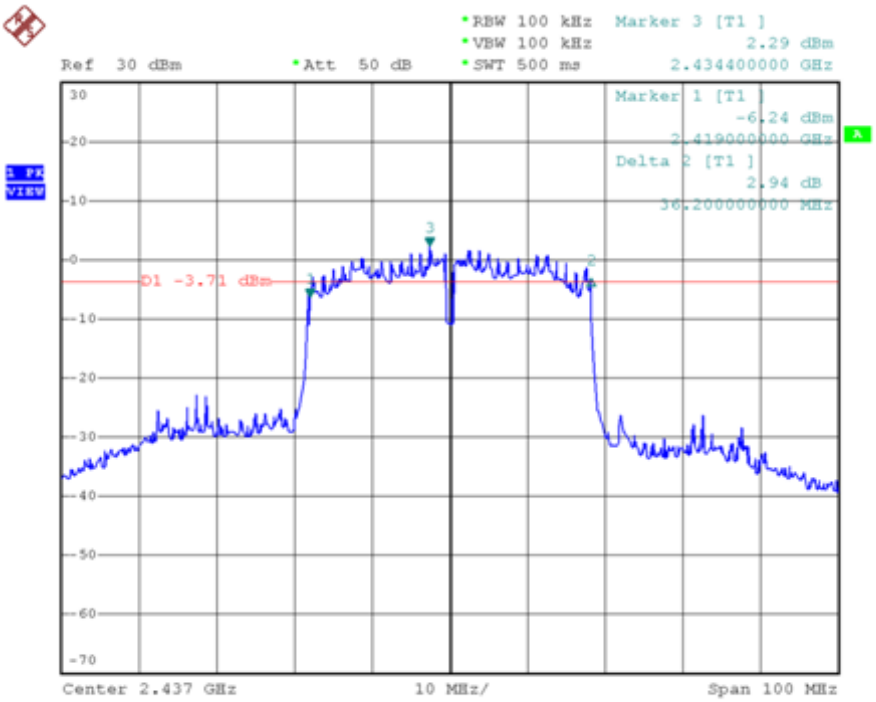
Test Item	Occupied Bandwidth
Test Mode	Mode 4: Transmit by 802.11n（40MHz）(An0)
Test Date	2010-05-08

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
03	2422	36200	500	Pass
06	2437	36200	500	Pass
09	2452	36200	500	Pass

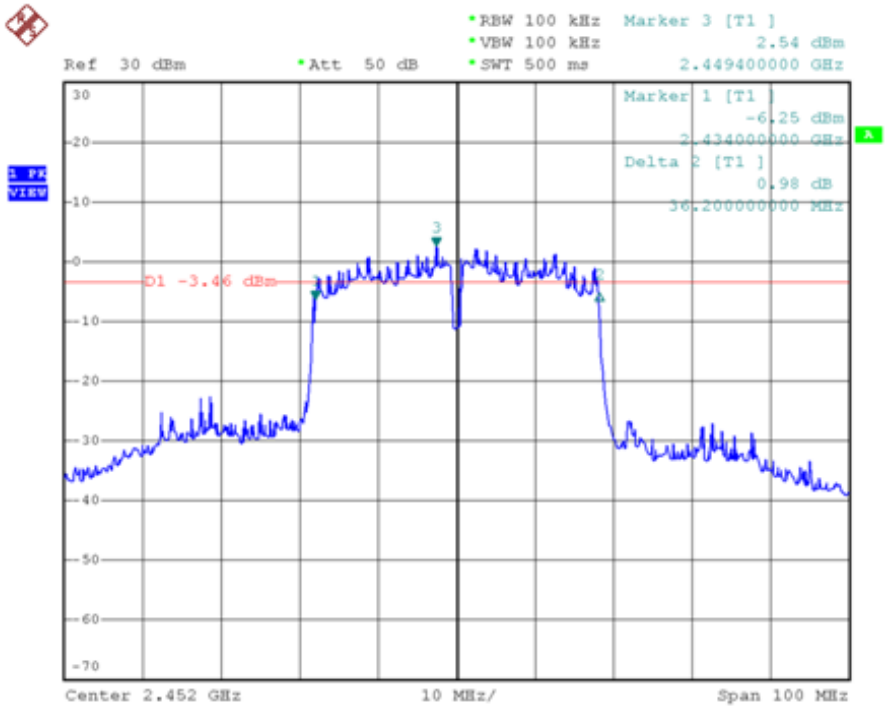
Channel 03 (2422MHz)



Channel 06 (2437MHz)



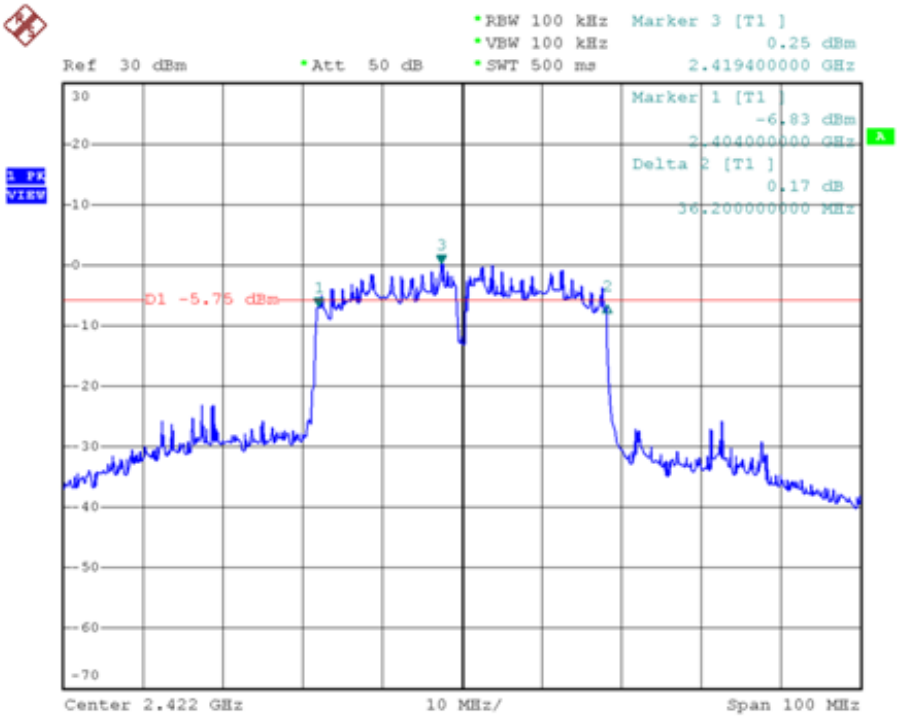
Channel 09 (2452MHz)



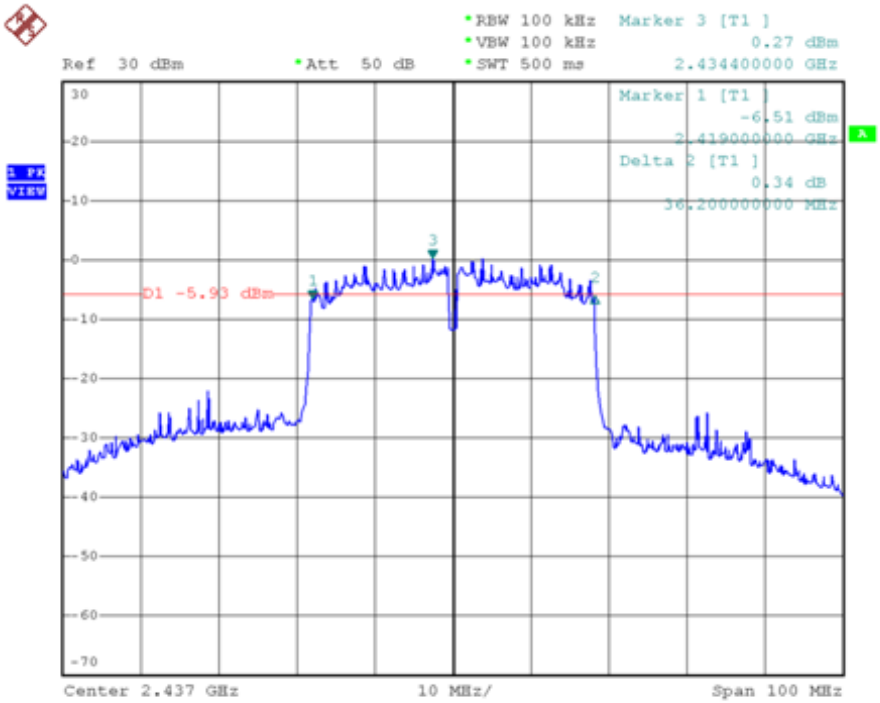
Test Item	Occupied Bandwidth
Test Mode	Mode 4: Transmit by 802.11n（40MHz）(An1)
Test Date	2010-05-08

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
03	2422	36200	500	Pass
06	2437	36200	500	Pass
09	2452	36200	500	Pass

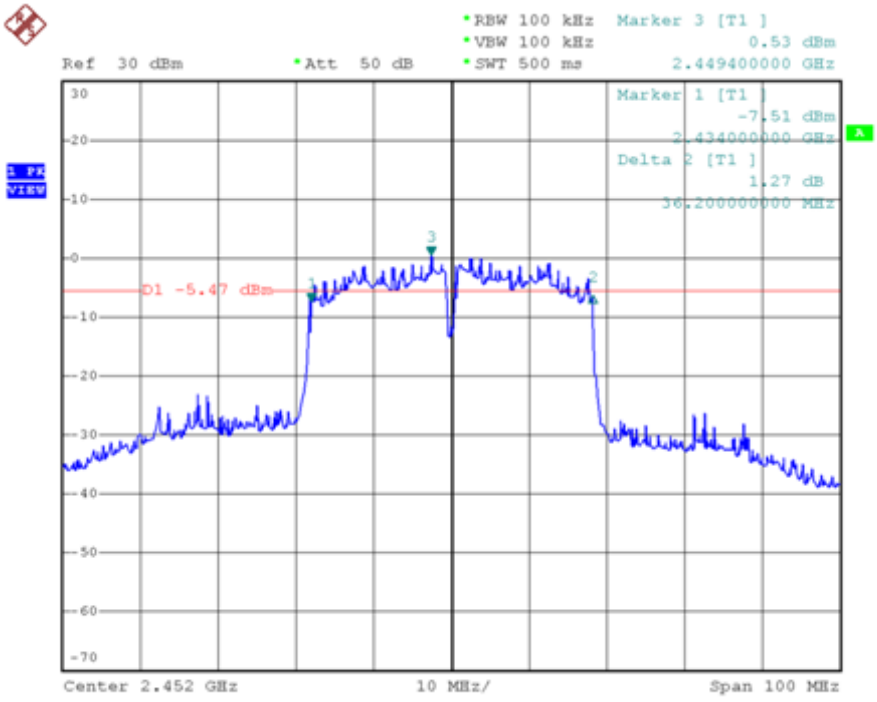
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



6. Maximum Peak Output Power

6.1. Test Limit

The maximum peak power shall be less 1Watt (30dBm).
The conducted output power limit is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of standard FCC part 15.247, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6 dBi.

6.2. Test Procedure

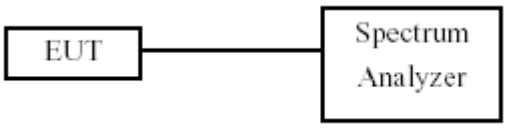
The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

In the following, “T” is the transmission pulse duration over which the transmitter is on and transmitting at its maximum power control level. Measurements are performed with a spectrum analyzer. Three methods are provided to accommodate measurement limitations of the spectrum analyzer depending on signal parameters. Set resolution bandwidth (RBW) = 1 MHz. Set span to encompass the entire emission bandwidth (EBW) of the signal. Use automatic setting for analyzer sweep time (except in Method #2). Check the sweep time to determine which procedure to use.

As “T” ≧ sweep time, the test procedure will be used as following:
1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz.
3. Set VBW ≧ 3 MHz.
4. Use sample detector mode if bin width (i.e., span/number of points in spectrum display) < 0.5 RBW. Otherwise use peak detector mode.
5. Use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at full control power for entire sweep of every sweep. If the device transmits continuously, with no off intervals or reduced power intervals, the trigger may be set to “free run”.
6. Trace average 100 traces in power averaging mode.
7. Compute power by integrating the spectrum across the 26 dB EBW of the signal. The integration can be performed using the spectrum analyzer’s band power measurement function with band limits set equal to the EBW band edges or by summing power

levels in each 1 MHz band in linear power terms. The 1 MHz band power levels to be summed can be obtained by averaging, in linear power terms, power levels in each frequency bin across the 1 MHz.

6.3. Test Setup Layout



6.4. Measurement Equipment

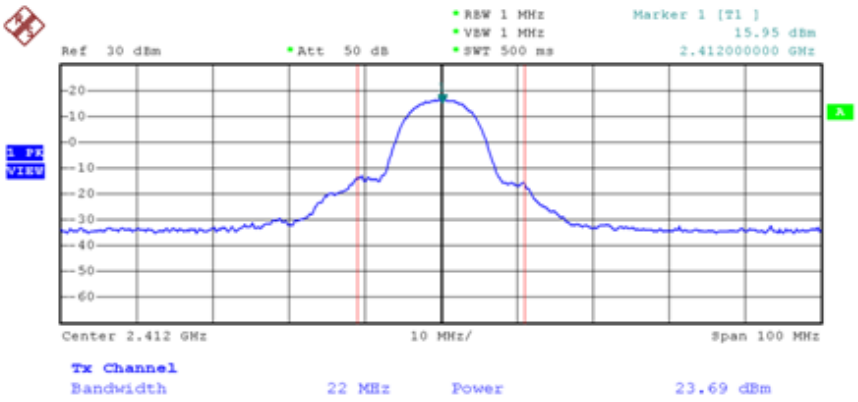
Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date
Spectrum Analyzer	R&S	FSP40	100324	2009.11.02
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2009.10.19

6.5. Test Result and Data

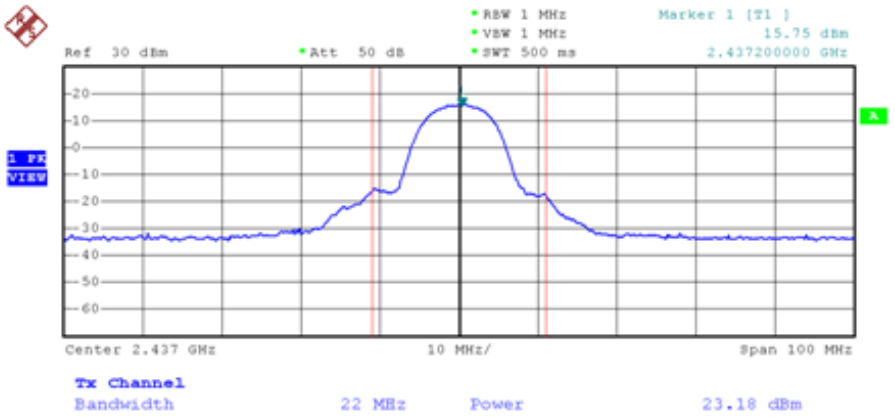
Test Item	Maximum Peak Output Power
Test Mode	Mode 1: Transmit by 802.11b (An0)
Test Date	2010-05-08

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit (dBm)	Result
01	2412	23.69	30 dBm	Pass
06	2437	23.18	30 dBm	Pass
11	2462	22.79	30 dBm	Pass

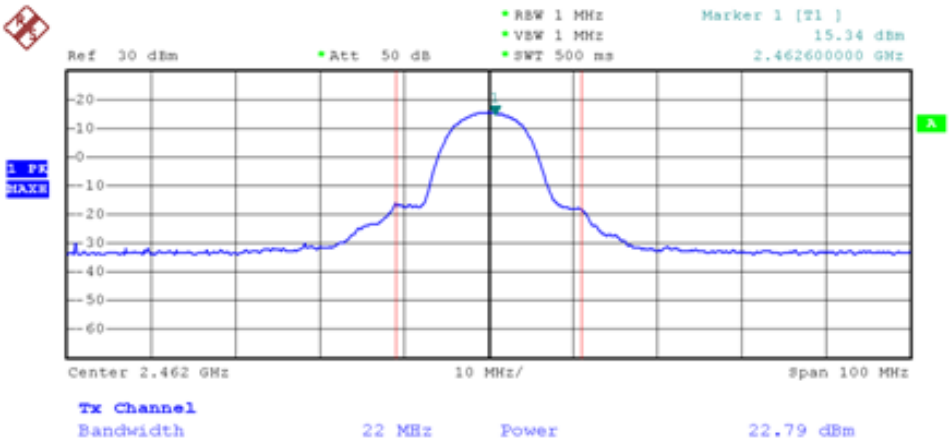
Channel 01 (2412MHz)



Channel 06 (2437MHz)



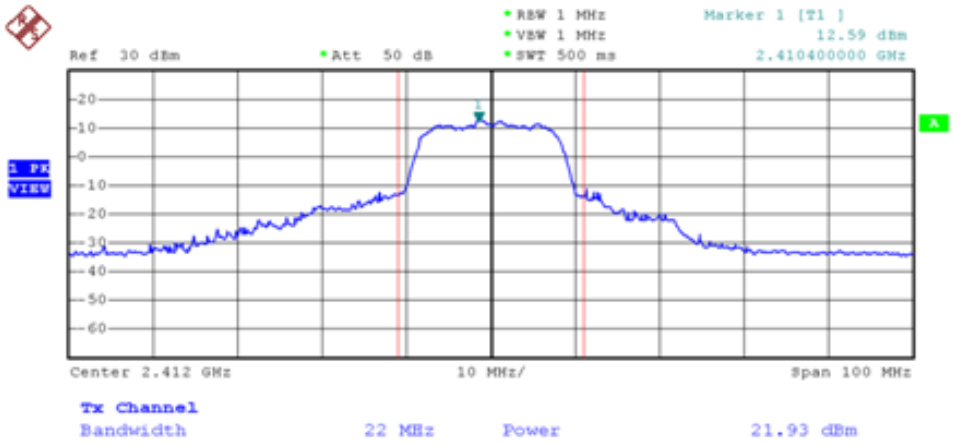
Channel 11 (2462MHz)



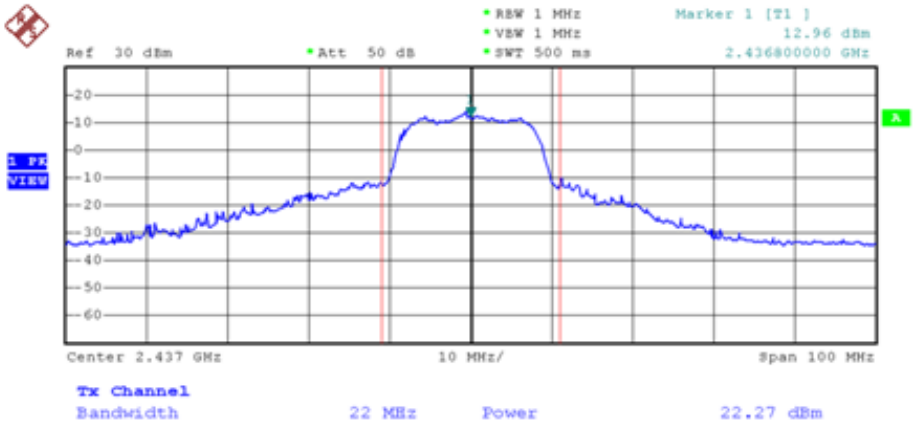
Test Item	Maximum Peak Output Power
Test Mode	Mode 2: Transmit by 802.11g (An0)
Test Date	2010-05-08

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit (dBm)	Result
01	2412	21.93	30 dBm	Pass
06	2437	22.27	30 dBm	Pass
11	2462	22.20	30 dBm	Pass

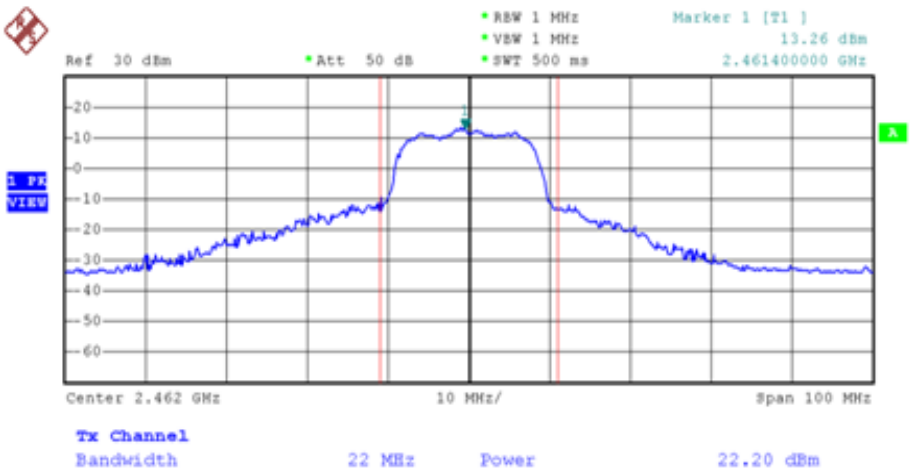
Channel 01 (2412MHz)



Channel 06 (2437MHz)



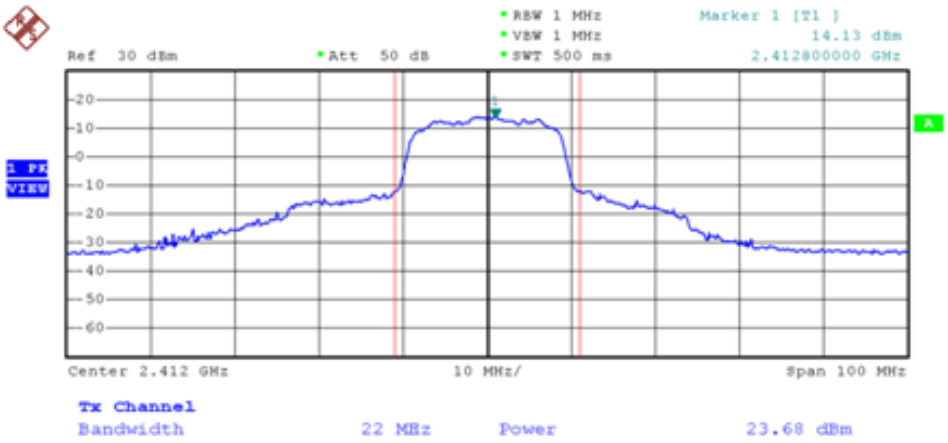
Channel 11 (2462MHz)



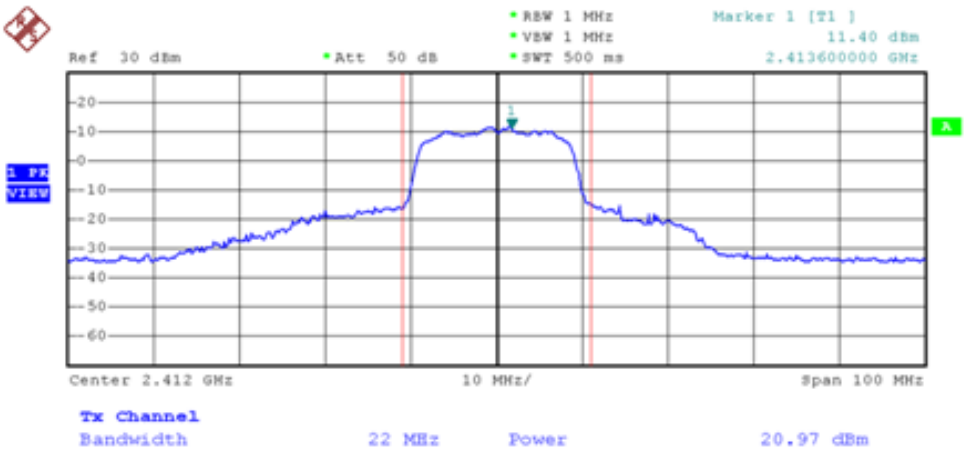
Test Item	Maximum Peak Output Power
Test Mode	Mode 3: Transmit by 802.11n（20MHz）(An0 and An1)
Test Date	2010-05-08

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit (dBm)	Result
01	2412	25.54	30 dBm	Pass
06	2437	25.69	30 dBm	Pass
11	2462	25.46	30 dBm	Pass

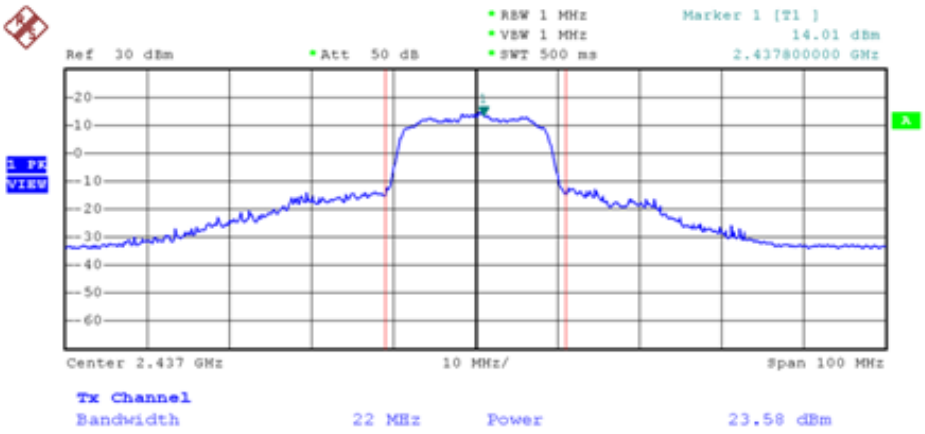
Channel 01 (2412MHz) (An0)



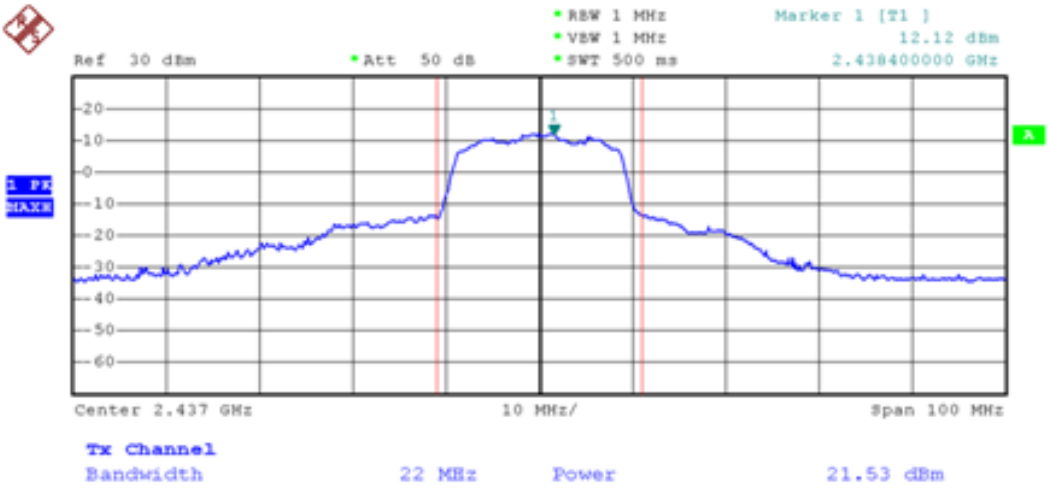
Channel 01 (2412MHz) (An1)



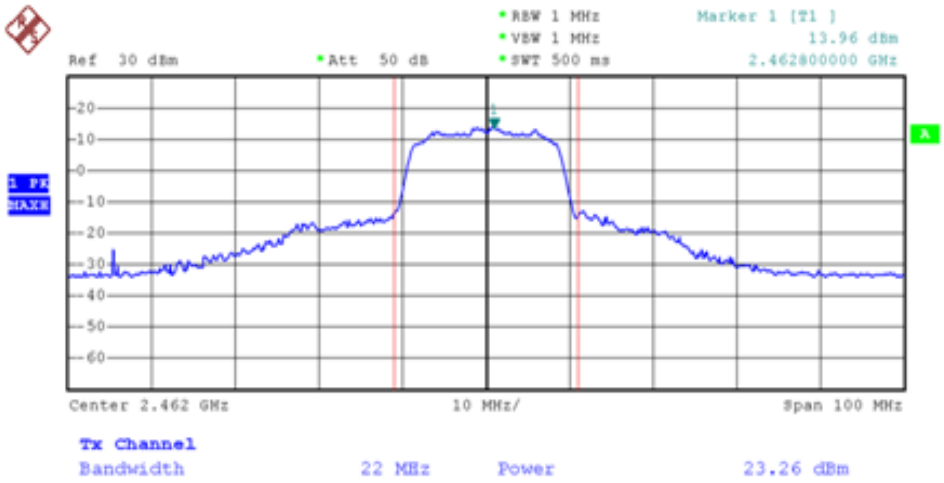
Channel 06 (2437MHz) (An0)



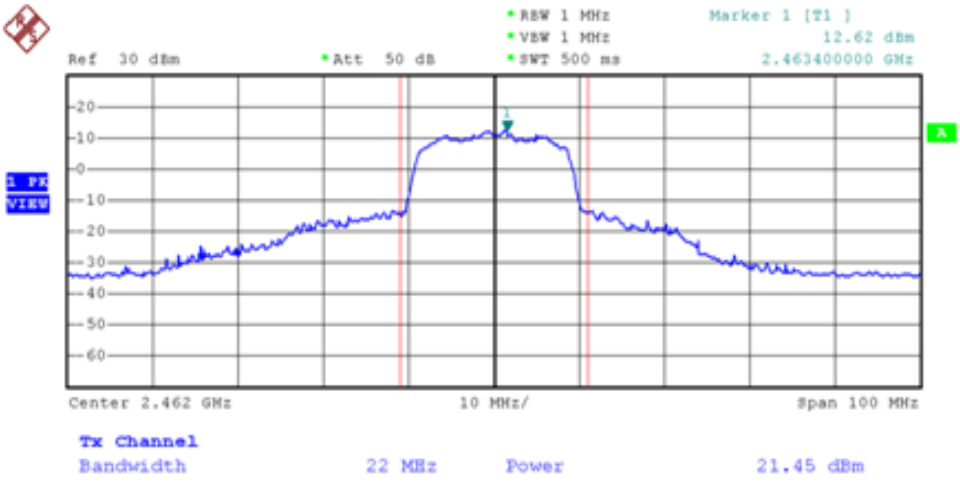
Channel 06 (2437MHz) (An1)



Channel 11 (2462MHz) (An0)



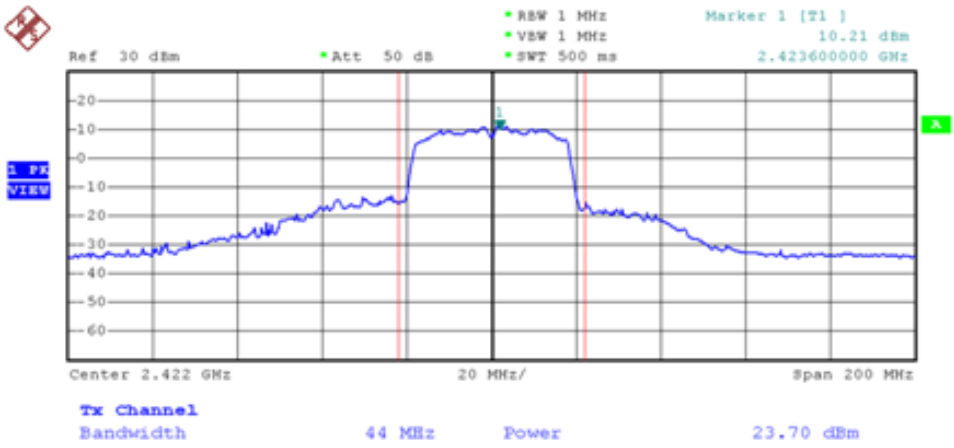
Channel 11 (2462MHz) (An1)



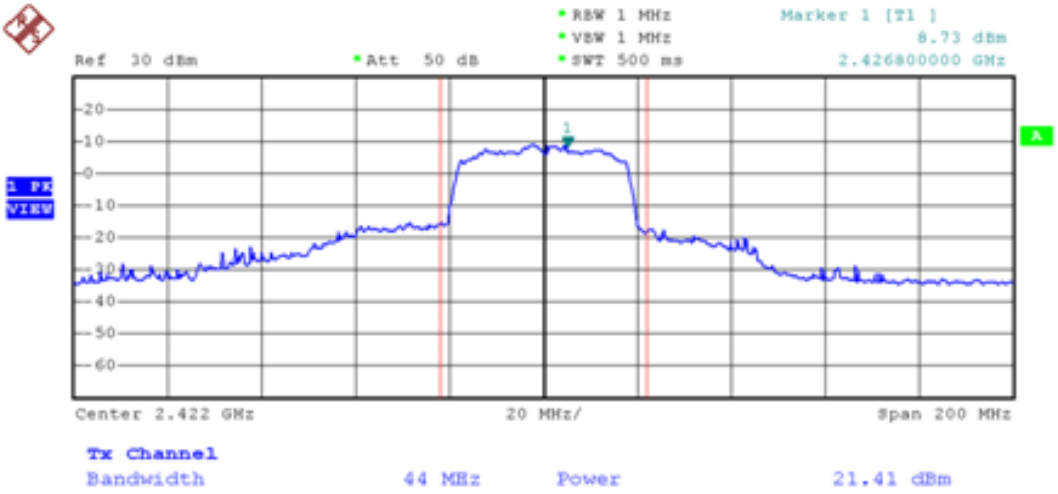
Test Item	Maximum Peak Output Power
Test Mode	Mode 4: Transmit by 802.11 n（40MHz）(An0 and An1)
Test Date	2010-05-08

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit (dBm)	Result
03	2422	25.71	30 dBm	Pass
06	2437	25.80	30 dBm	Pass
09	2452	25.97	30 dBm	Pass

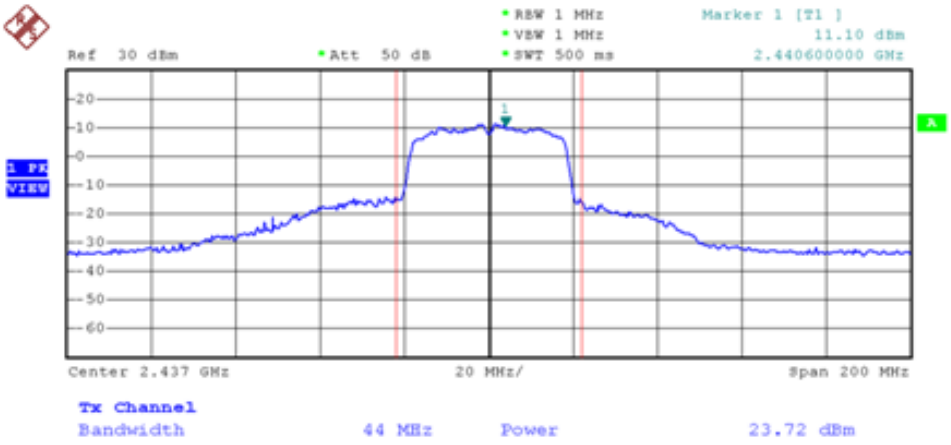
Channel 03 (2422MHz) (An0)



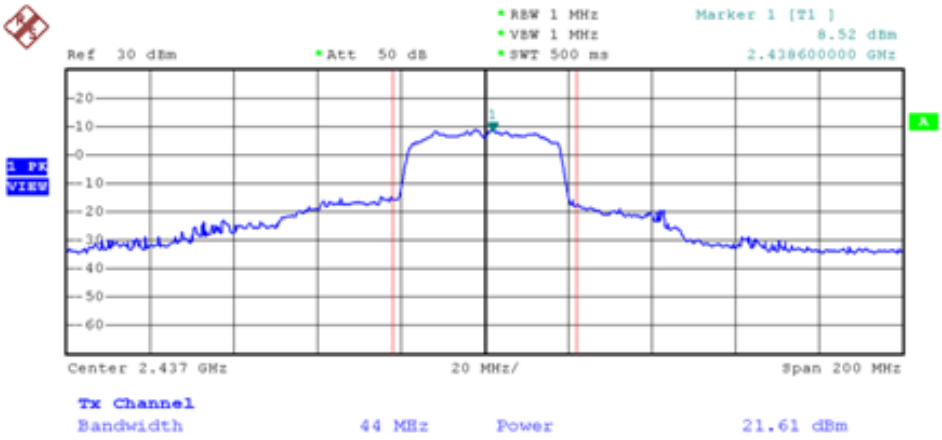
Channel 03 (2422MHz) (An1)



Channel 06 (2437MHz) (An0)

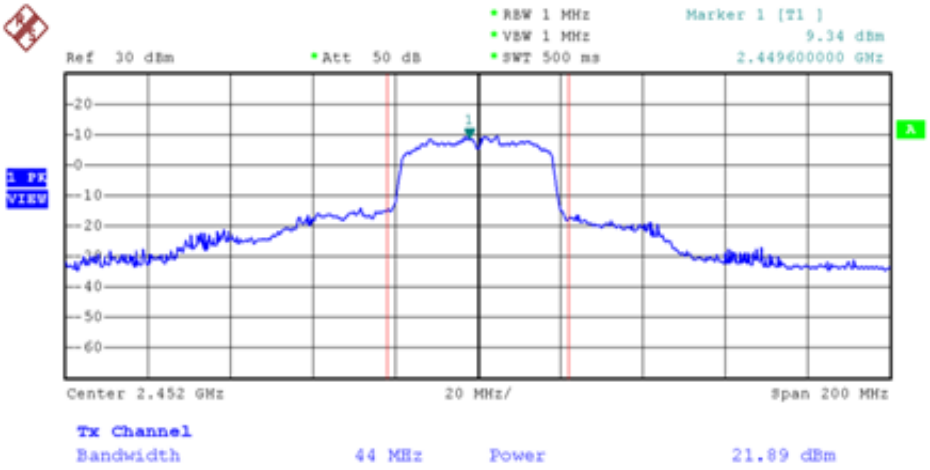


Channel 06 (2437MHz) (An1)



Channel 09 (2452MHz) (An0)

Channel 09 (2452MHz) (An1)



7. Band Edges

7.1. Test Limit

For RF Conducted requirement:

20 dB bandwidth of the emission is contained within the operation frequency band.

For RF Radiated requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

7.2. Test Procedure

For RF Conducted Measurement:

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.
Set RBW = 100 kHz, Span greater than RBW.

For RF Radiated Measurement:

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test

procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set

to transmit in a continuous mode.

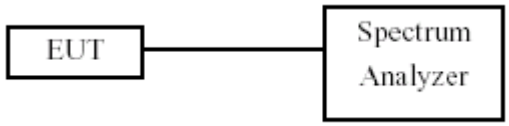
For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

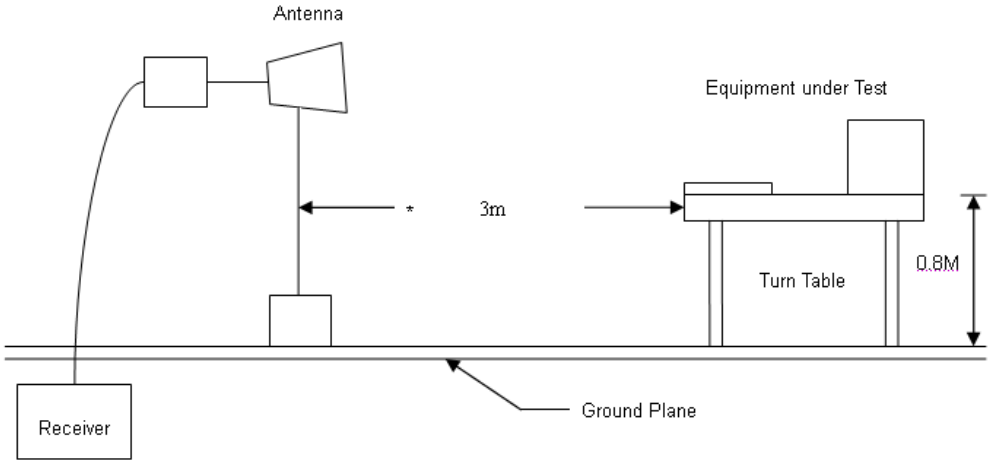
For measurements above 1GHz the resolution bandwidth is set to 1MHz, then the video bandwidth is set to 1MHz for peak measurements and 10Hz for average measurements.

The spectrum from 30MHz to 26GHz is investigated with the transmitter set to the lowest, middle and highest channels in the 2.4GHz band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are Made with the antenna polarized in both the vertical and the horizontal positions.

7.3. Test Setup Layout



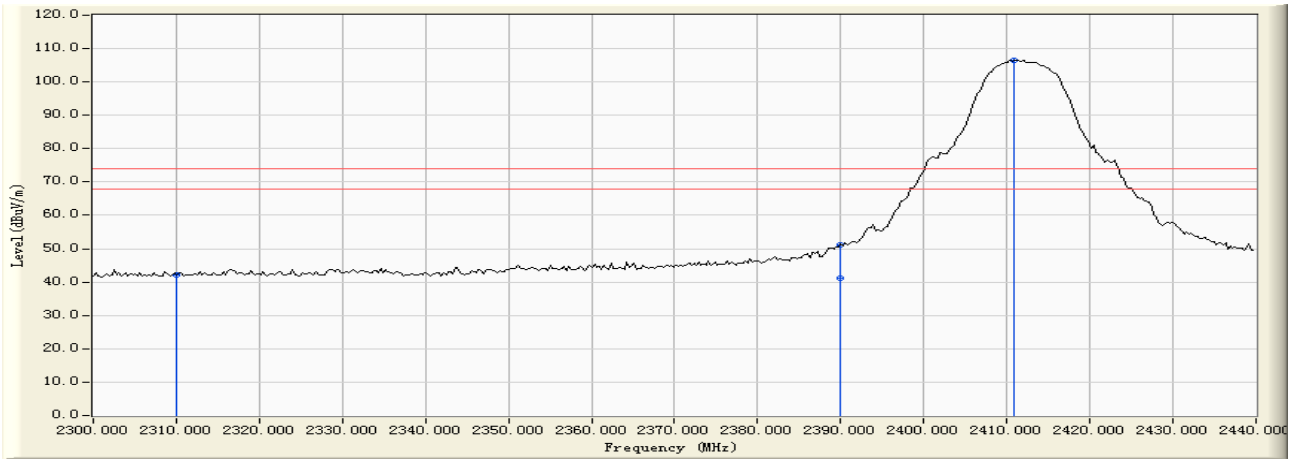


7.4. Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date
Spectrum Analyzer	R&S	FSP40	100324	2009.11.02
H64 Amplifier	HP	8447F	3113A05582	2009.12.01
Preamplifier	Agilent	8449B	ED-HE-EMI-077	2010.02.10
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	100363	2009.11.10
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2009.10.19

7.5. Test Result and Data

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/09 - 11:24**
Limit : FCC_15_03M_PK	**Margin : 0**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2412MHz)**

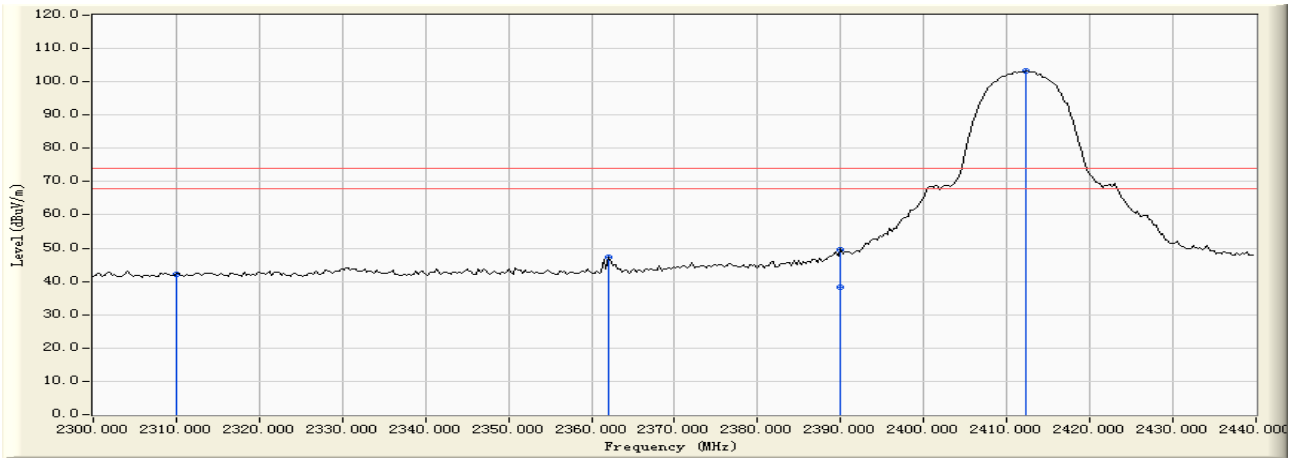


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-10.012	52.192	42.180	-31.820	74.000	PEAK
2		2390.000	-10.041	61.303	51.263	-22.737	74.000	PEAK
3		2390.000	-10.041	51.200	41.160	-12.840	54.000	AVERAGE
4	*	2410.938	-10.018	116.611	106.594	32.594	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/09 - 11:30**
Limit : FCC_15_03M_PK	**Margin : 0**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2412MHz)**

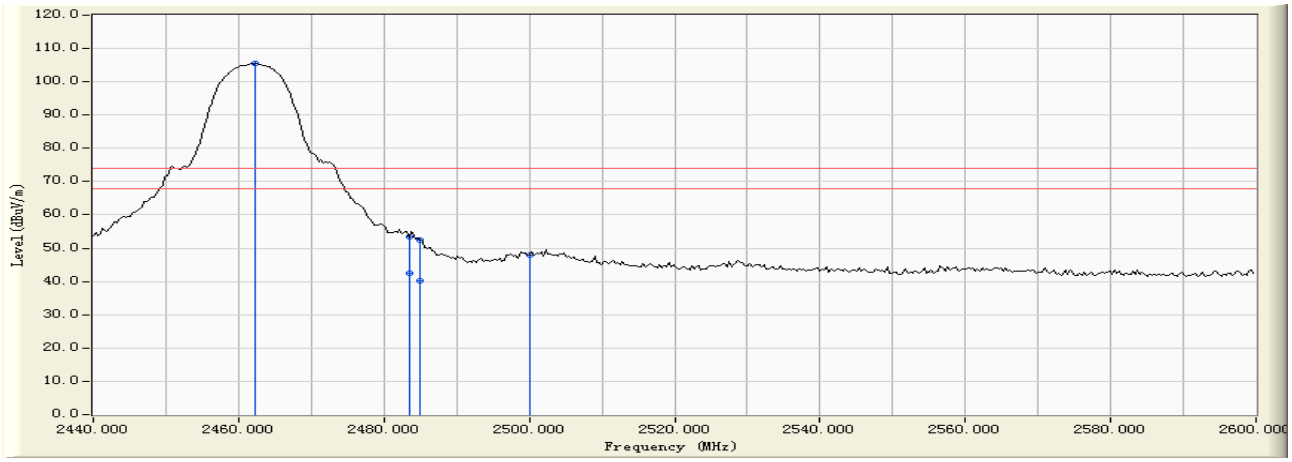


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-10.012	52.301	42.289	-31.711	74.000	PEAK
2		2362.036	-10.030	57.208	47.178	-26.822	74.000	PEAK
3		2390.000	-10.041	59.676	49.636	-24.364	74.000	PEAK
4		2390.000	-10.041	48.320	38.280	-15.720	54.000	AVERAGE
5	*	2412.335	-10.016	113.280	103.263	29.263	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/09 - 11:38**
Limit : FCC_15_03M_PK	**Margin : 0**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2462MHz)**

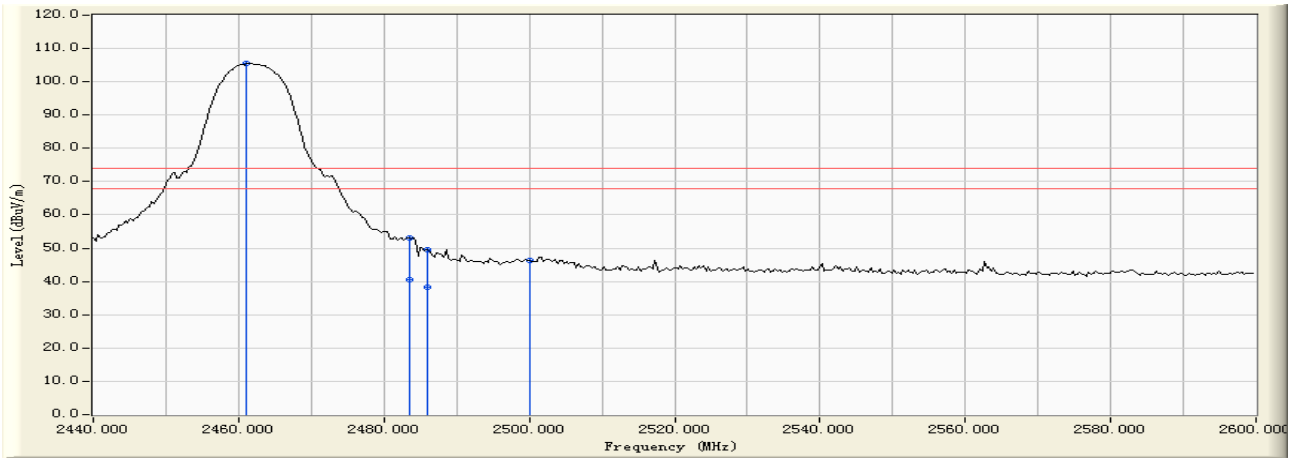


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2462.355	-9.908	115.337	105.428	31.428	74.000	PEAK
2		2483.500	-9.856	63.357	53.501	-20.499	74.000	PEAK
3		2483.500	-9.856	52.170	42.314	-11.686	54.000	AVERAGE
4		2485.030	-9.854	62.337	52.483	-21.517	74.000	PEAK
5		2485.030	-9.854	50.100	40.246	-13.754	54.000	AVERAGE
6		2500.000	-9.810	57.854	48.044	-25.956	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/09 - 11:36**
Limit : FCC_15_03M_PK	**Margin : 0**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC120V/60Hz	**Note : Mode 1: Transmit by 802.11b (An0) (2462MHz)**

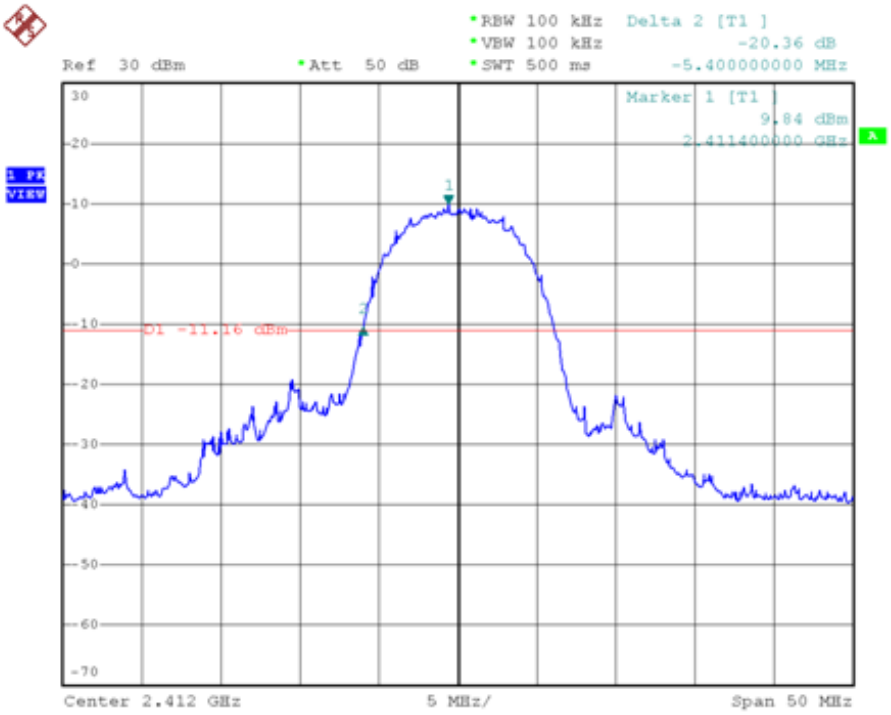


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.078	-9.911	115.452	105.541	31.541	74.000	PEAK
2		2483.500	-9.856	62.818	52.962	-21.038	74.000	PEAK
3		2483.500	-9.856	50.310	40.454	-13.546	54.000	AVERAGE
4		2485.988	-9.851	59.266	49.414	-24.586	74.000	PEAK
5		2485.988	-9.851	48.260	38.408	-15.592	54.000	AVERAGE
6		2500.000	-9.810	56.080	46.270	-27.730	74.000	PEAK

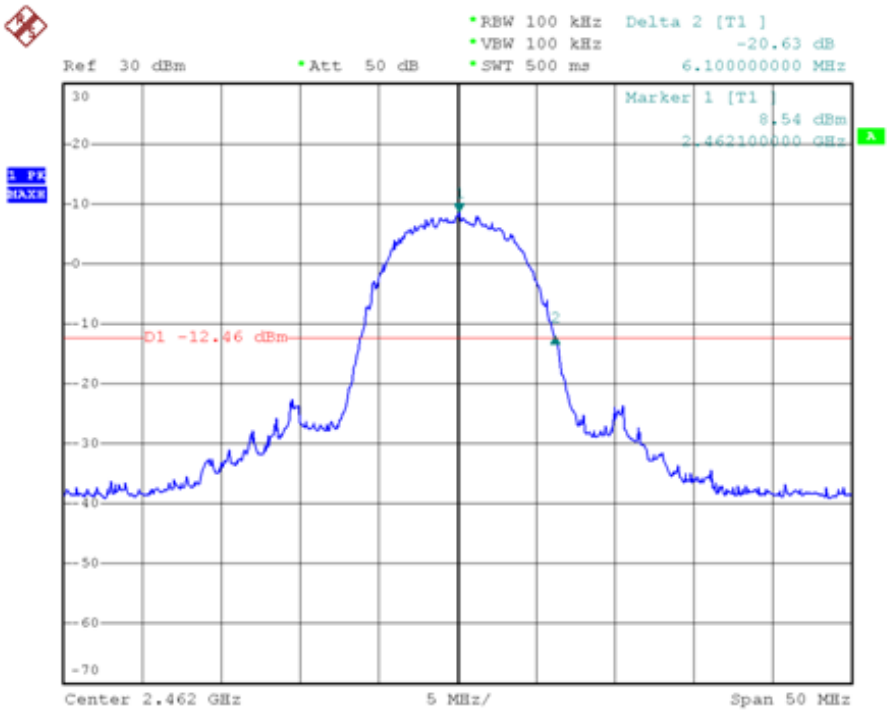
Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

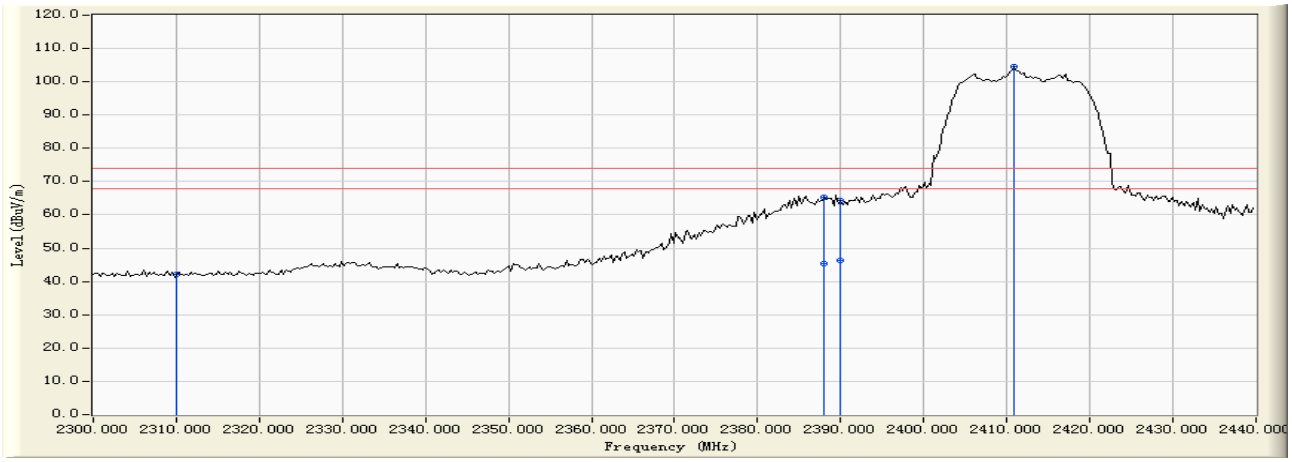
Band Edge (20dBc RF Conducted Measurement)
Mode 1: Transmit by 802.11b (An0) (2412MHz)



Band Edge (20dBc RF Conducted Measurement)
Mode 1: Transmit by 802.11b (An0) (2462MHz)



Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/09 - 12:32**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC120V/60Hz	**Note : Mode 2: Transmit by 802.11g (An0) (2412MHz)**

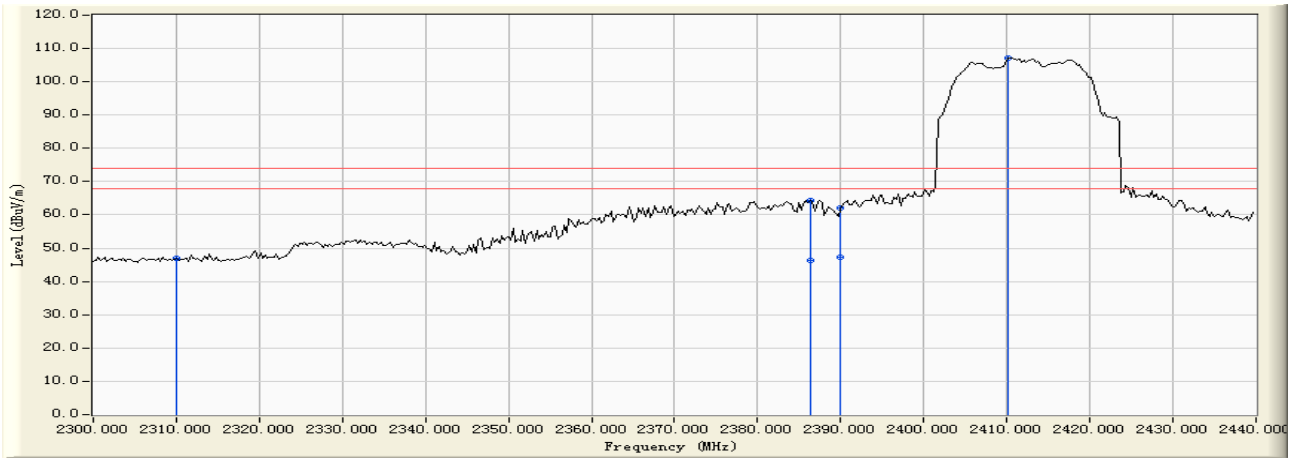


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-10.012	52.086	42.074	-31.926	74.000	PEAK
2		2388.024	-10.038	75.442	65.404	-8.596	74.000	PEAK
3		2388.024	-10.038	55.390	45.352	-8.648	54.000	AVERAGE
4		2390.000	-10.041	74.227	64.187	-9.813	74.000	PEAK
5		2390.000	-10.041	56.320	46.280	-7.720	54.000	AVERAGE
6	*	2410.938	-10.018	114.454	104.437	30.437	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/09 - 12:28**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC120V/60Hz	**Note : Mode 2: Transmit by 802.11g (An0) (2412MHz)**

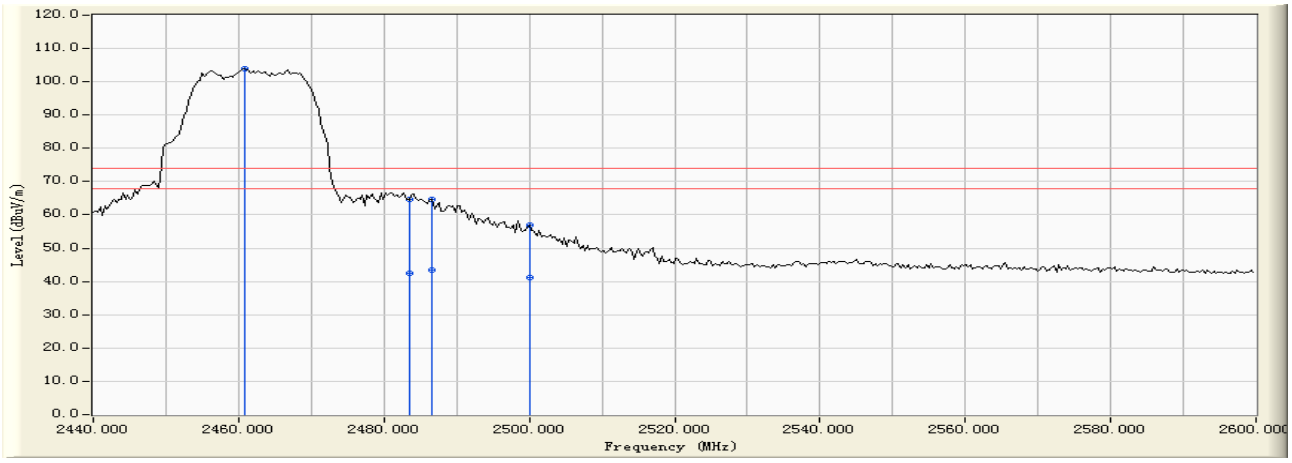


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-10.012	56.980	46.968	-27.032	74.000	PEAK
2		2386.347	-10.036	74.388	64.351	-9.649	74.000	PEAK
3		2386.347	-10.036	56.310	46.273	-7.727	54.000	AVERAGE
4		2390.000	-10.041	71.998	61.958	-12.042	74.000	PEAK
5		2390.000	-10.041	57.320	47.280	-6.720	54.000	AVERAGE
6	*	2410.100	-10.018	117.268	107.250	33.250	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/09 - 11:45**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC120V/60Hz	**Note : Mode 2: Transmit by 802.11g (An0) (2462MHz)**

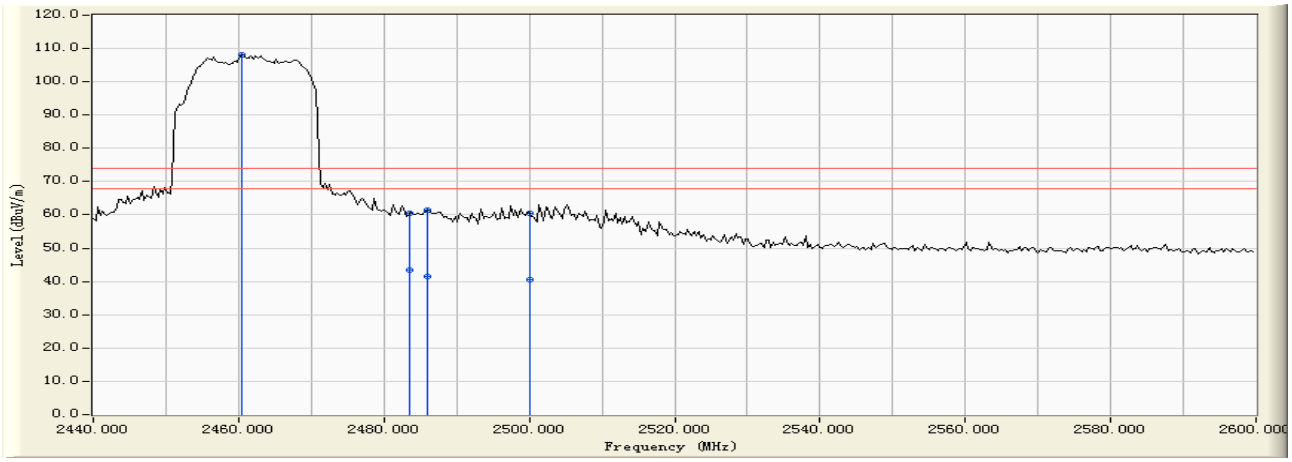


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2460.758	-9.912	113.936	104.024	30.024	74.000	PEAK
2		2483.500	-9.856	74.598	64.742	-9.258	74.000	PEAK
3		2483.500	-9.856	52.360	42.504	-11.496	54.000	AVERAGE
4		2486.627	-9.850	74.465	64.614	-9.386	74.000	PEAK
5		2486.627	-9.850	53.160	43.309	-10.691	54.000	AVERAGE
6		2500.000	-9.810	66.627	56.817	-17.183	74.000	PEAK
7		2500.000	-9.810	51.040	41.230	-12.770	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/09 - 12:23**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC120V/60Hz	**Note : Mode 2: Transmit by 802.11g (An0) (2462MHz)**

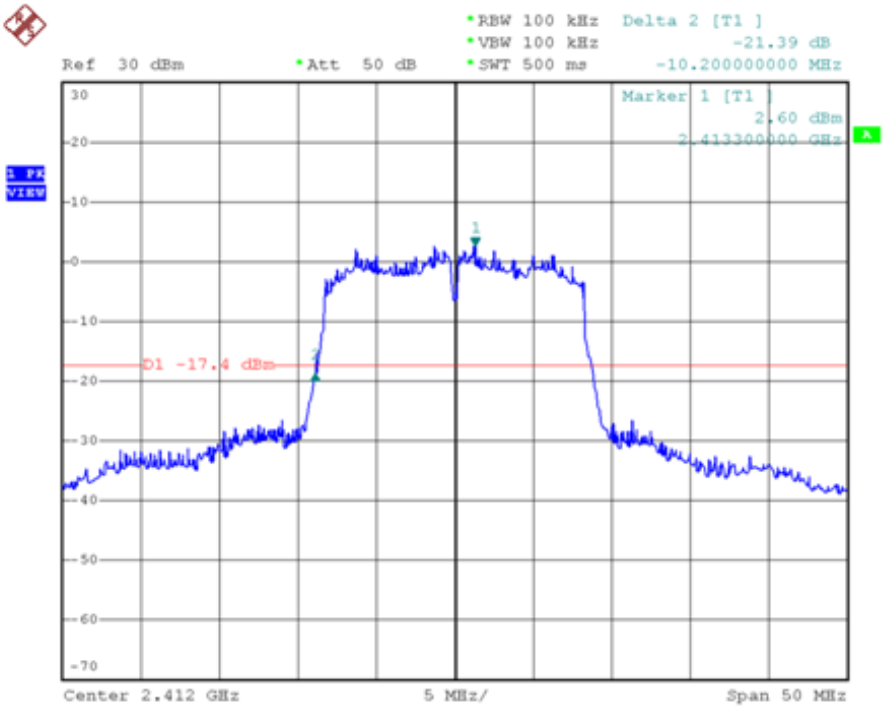


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2460.439	-9.913	118.029	108.117	34.117	74.000	PEAK
2		2483.500	-9.856	70.235	60.379	-13.621	74.000	PEAK
3		2483.500	-9.856	53.160	43.304	-10.696	54.000	AVERAGE
4		2485.988	-9.851	71.453	61.601	-12.399	74.000	PEAK
5		2485.988	-9.851	51.370	41.518	-12.482	54.000	AVERAGE
6		2500.000	-9.810	70.429	60.619	-13.381	74.000	PEAK
7		2500.000	-9.810	50.390	40.580	-13.420	54.000	AVERAGE

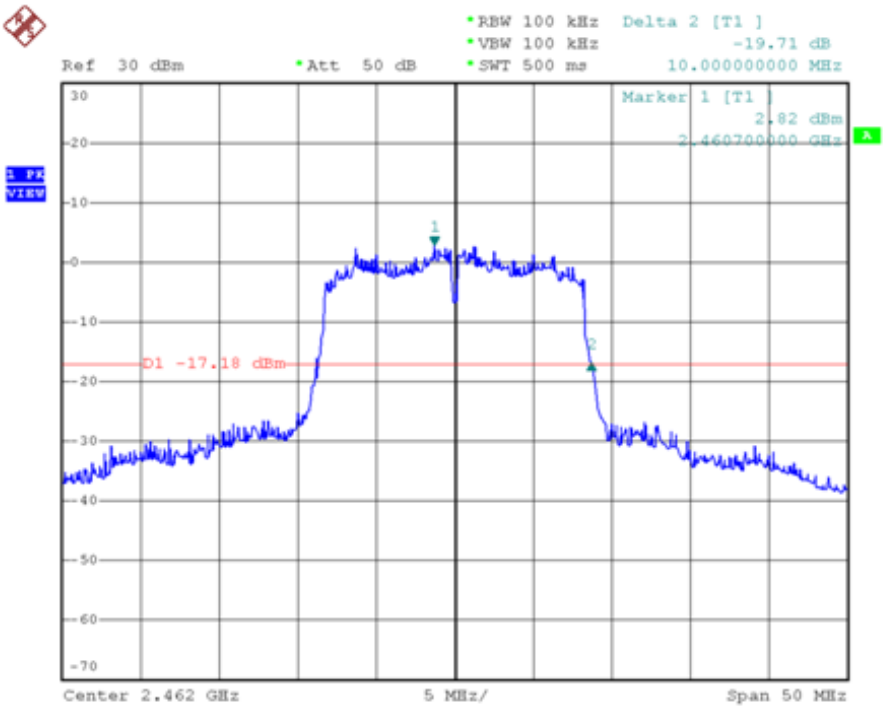
Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

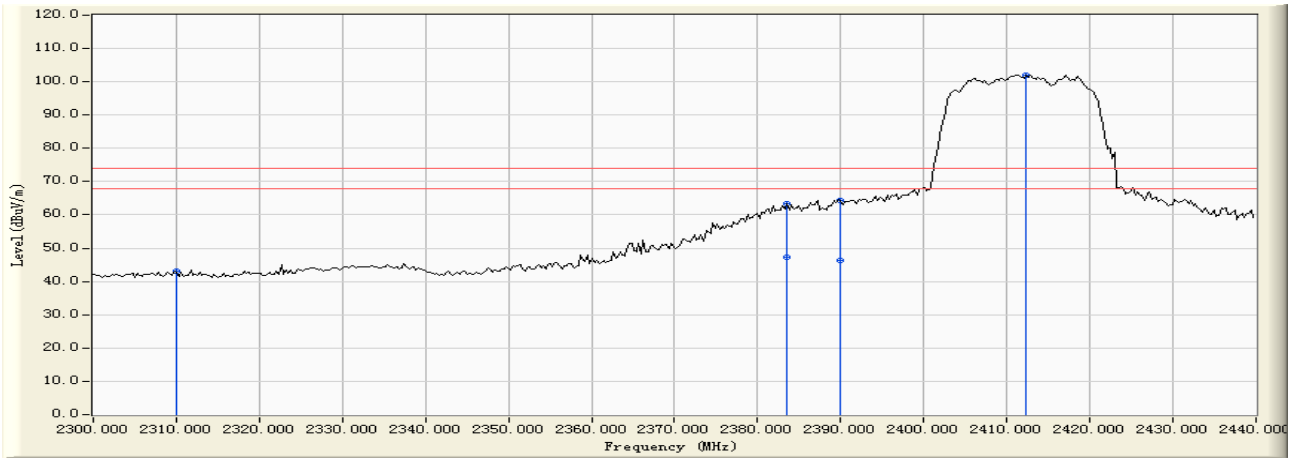
Band Edge (20dBc RF Conducted Measurement)
Mode 2: Transmit by 802.11g (An0) (2412MHz)



Band Edge (20dBc RF Conducted Measurement)
Mode 2: Transmit by 802.11g (An0) (2462MHz)



Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/09 - 12:40**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC120V/60Hz	**Note : Mode 3: Transmit by 802.11n（20MHz）(An0) (2412MHz)**

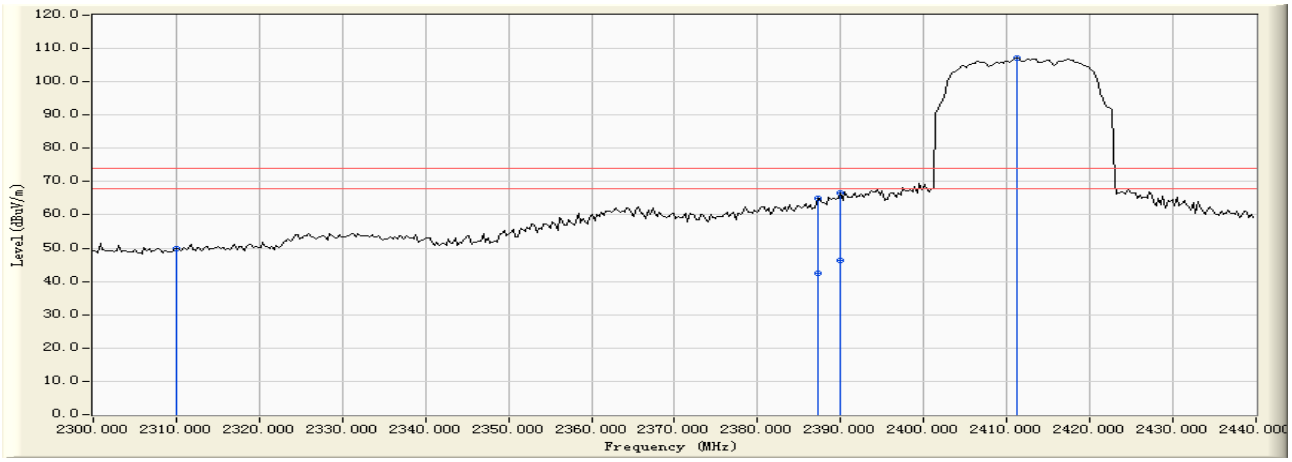


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-10.012	52.967	42.955	-31.045	74.000	PEAK
2		2383.500	-10.034	57.200	47.166	-6.834	54.000	AVERAGE
3		2383.553	-10.035	73.270	63.236	-10.764	74.000	PEAK
4		2390.000	-10.041	74.397	64.357	-9.643	74.000	PEAK
5		2390.000	-10.041	56.320	46.280	-7.720	54.000	AVERAGE
6	*	2412.335	-10.016	112.140	102.123	28.123	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/09 - 12:42**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC120V/60Hz	**Note : Mode 3: Transmit by 802.11n（20MHz）(An0) (2412MHz)**

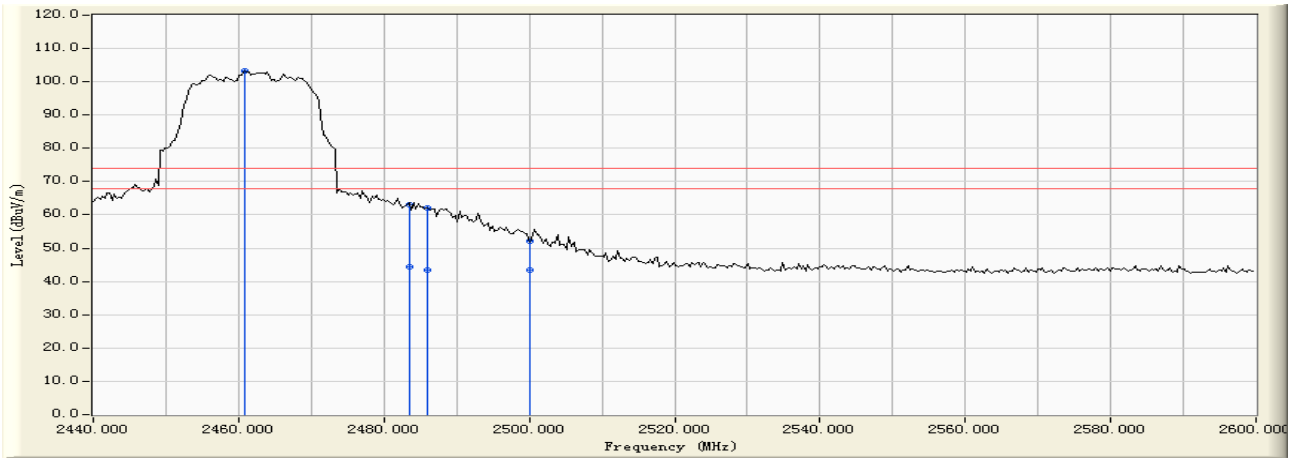


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-10.012	59.829	49.817	-24.183	74.000	PEAK
2		2387.186	-10.038	75.122	65.084	-8.916	74.000	PEAK
3		2387.186	-10.038	52.370	42.332	-11.668	54.000	AVERAGE
4		2390.000	-10.041	76.610	66.570	-7.430	74.000	PEAK
5		2390.000	-10.041	56.320	46.280	-7.720	54.000	AVERAGE
6	*	2411.218	-10.017	117.206	107.189	33.189	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/09 - 12:48**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC120V/60Hz	**Note : Mode 3: Transmit by 802.11n（20MHz）(An0) (2462MHz)**

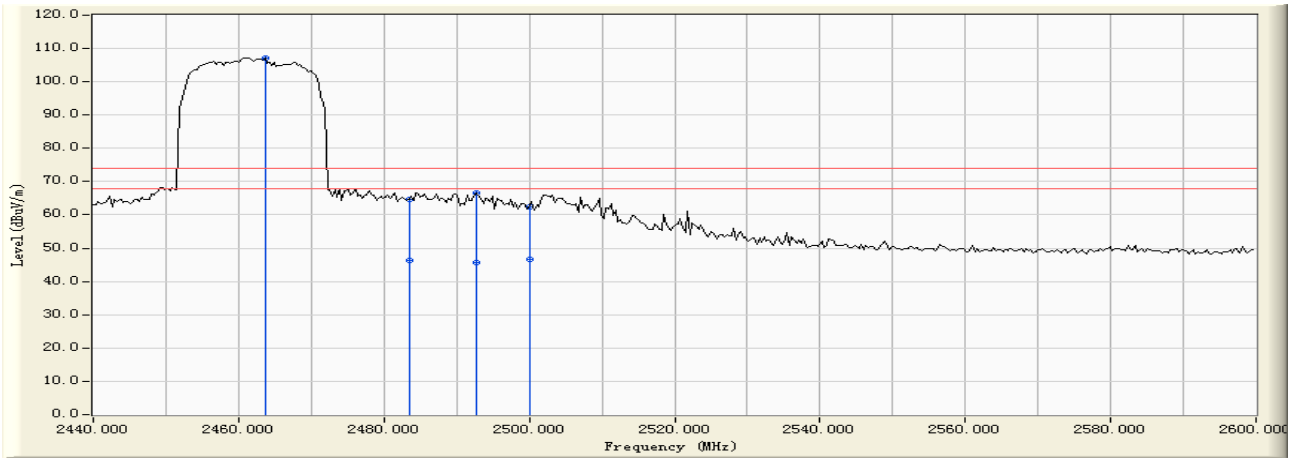


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2460.758	-9.912	113.305	103.393	29.393	74.000	PEAK
2		2483.500	-9.856	72.994	63.138	-10.862	74.000	PEAK
3		2483.500	-9.856	54.360	44.504	-9.496	54.000	AVERAGE
4		2485.988	-9.851	72.087	62.235	-11.765	74.000	PEAK
5		2485.988	-9.851	53.210	43.358	-10.642	54.000	AVERAGE
6		2500.000	-9.810	61.815	52.005	-21.995	74.000	PEAK
7		2500.000	-9.810	53.210	43.400	-10.600	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/09 - 12:45**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC120V/60Hz	**Note : Mode 3: Transmit by 802.11n（20MHz）(An0) (2462MHz)**

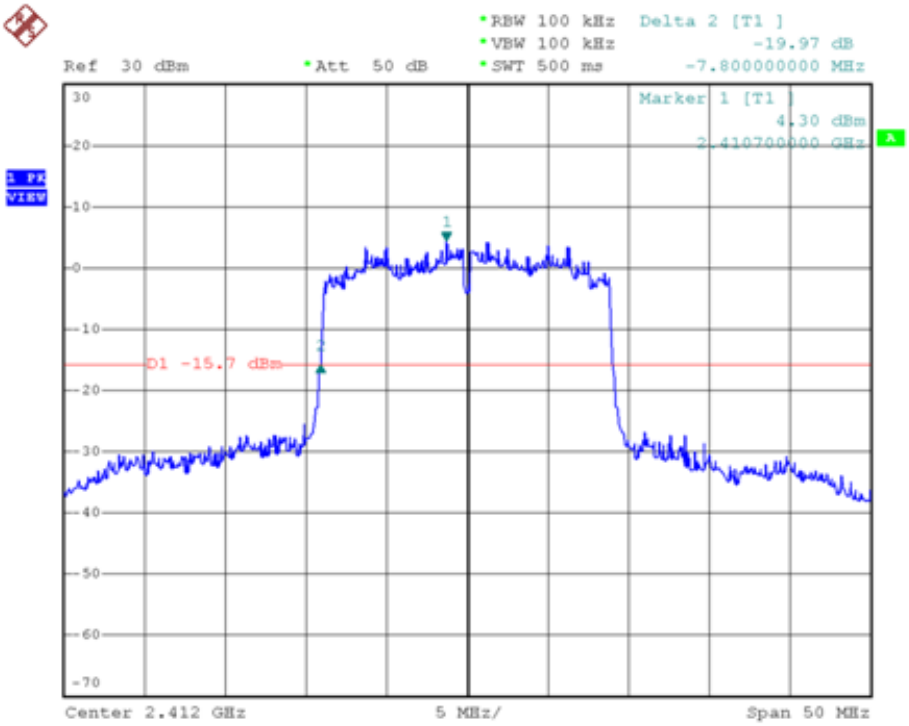


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.633	-9.907	117.126	107.219	33.219	74.000	PEAK
2		2483.500	-9.856	74.617	64.761	-9.239	74.000	PEAK
3		2483.500	-9.856	56.320	46.464	-7.536	54.000	AVERAGE
4		2492.695	-9.834	76.357	66.523	-7.477	74.000	PEAK
5		2492.695	-9.834	55.360	45.526	-8.474	54.000	AVERAGE
6		2500.000	-9.810	72.305	62.495	-11.505	74.000	PEAK
7		2500.000	-9.810	56.370	46.560	-7.440	54.000	AVERAGE

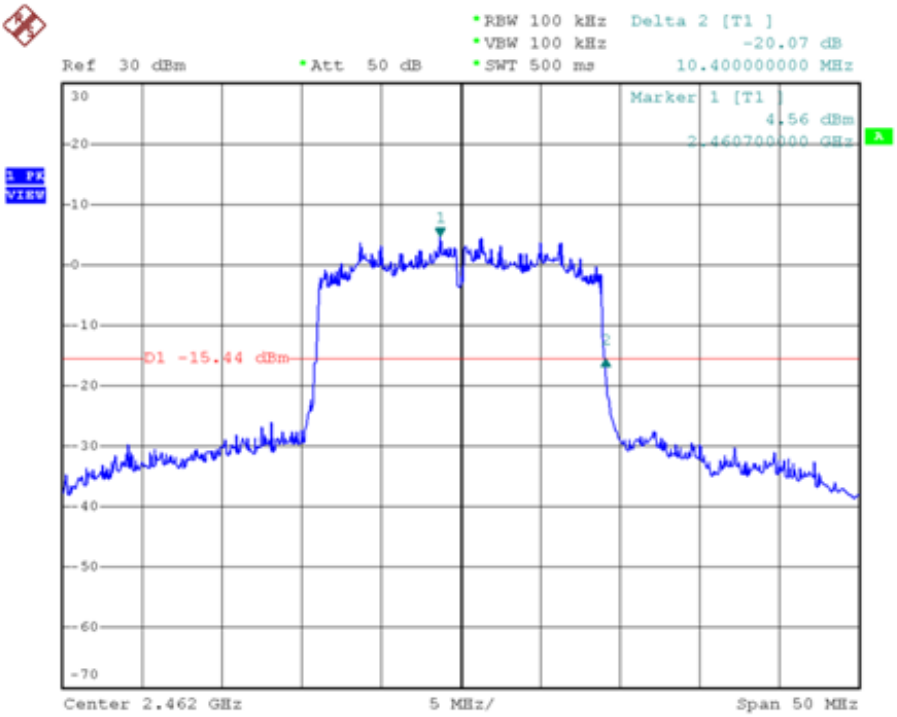
Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

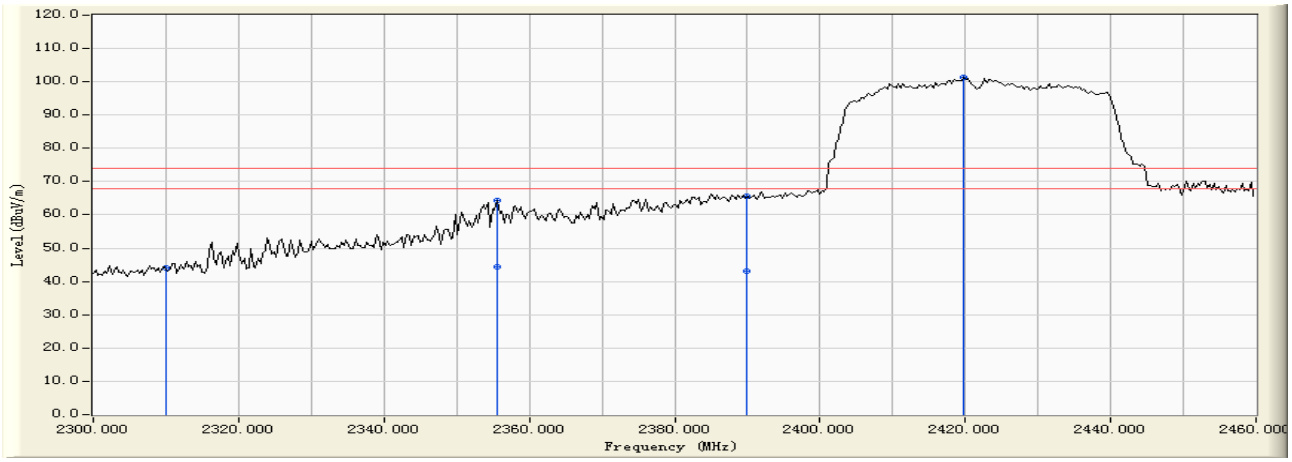
Band Edge (20dBc RF Conducted Measurement)
Mode 3: Transmit by 802.11n（20MHz）(An0) (2412MHz)



Band Edge (20dBc RF Conducted Measurement)
Mode 3: Transmit by 802.11n（20MHz）(An0) (2462MHz)



Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/09 - 12:59**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC120V/60Hz	**Note : Mode 4: Transmit by 802.11n（40MHz）(An0) (2422MHz)**

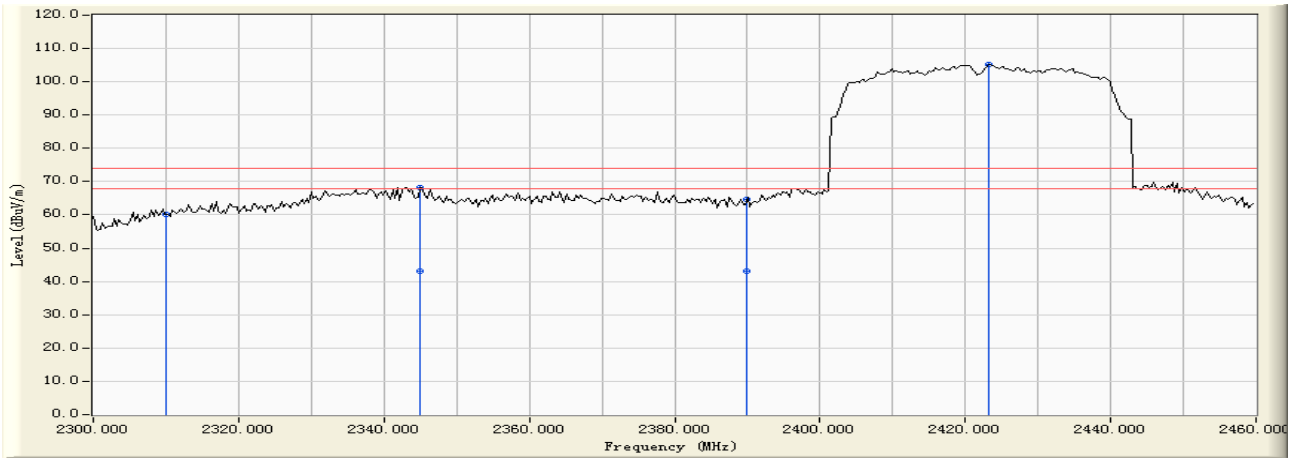


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-10.012	53.970	43.958	-30.042	74.000	PEAK
2		2355.569	-10.025	74.428	64.402	-9.598	74.000	PEAK
3		2355.569	-10.025	54.310	44.284	-9.716	54.000	AVERAGE
4		2390.000	-10.041	75.679	65.639	-8.361	74.000	PEAK
5		2390.000	-10.041	53.120	43.080	-10.920	54.000	AVERAGE
6	*	2419.760	-10.008	111.387	101.379	27.379	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/09 - 13:02**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC120V/60Hz	**Note : Mode 4: Transmit by 802.11n（40MHz）(An0) (2422MHz)**

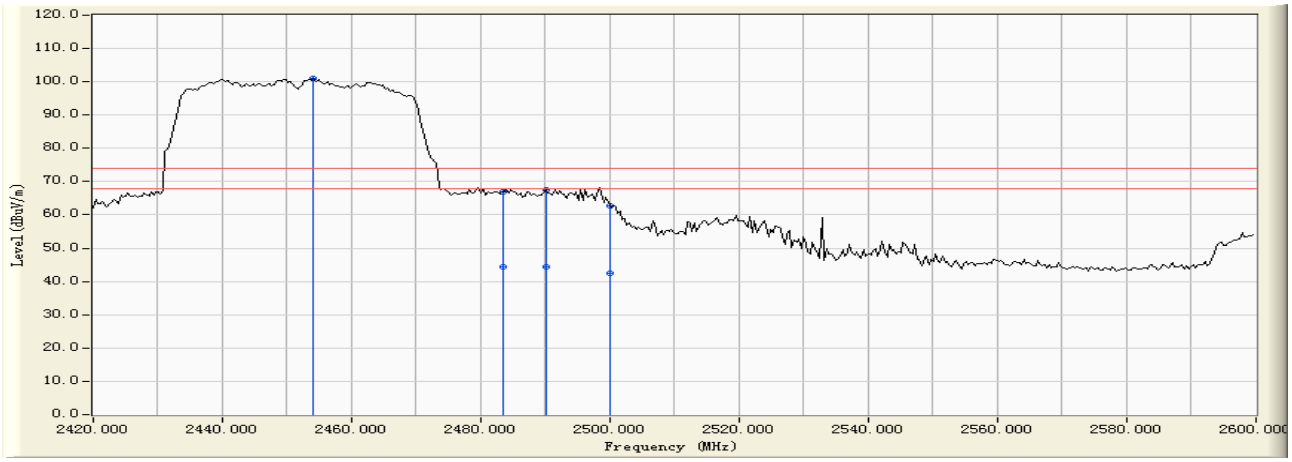


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-10.012	70.155	60.143	-13.857	74.000	PEAK
2		2345.030	-10.024	78.229	68.205	-5.795	74.000	PEAK
3		2345.030	-10.024	53.260	43.236	-10.764	54.000	AVERAGE
4		2390.000	-10.041	74.783	64.743	-9.257	74.000	PEAK
5		2390.000	-10.041	53.260	43.220	-10.780	54.000	AVERAGE
6	*	2423.273	-10.001	115.202	105.201	31.201	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/09 - 13:12**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - HORIZONTAL**
Power : AC120V/60Hz	**Note : Mode 4: Transmit by 802.11n（40MHz）(An0) (2452MHz)**

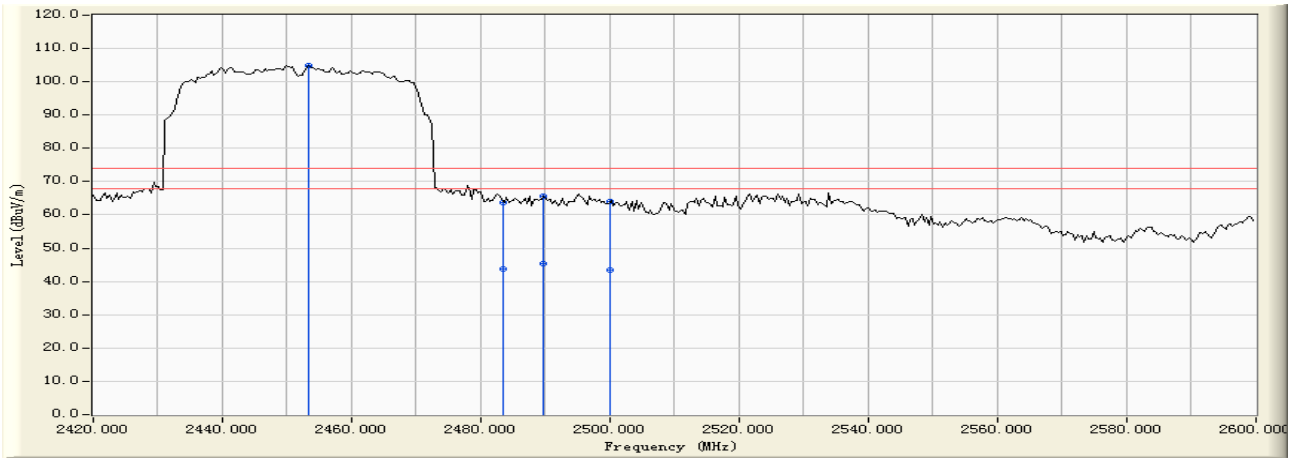


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2454.132	-9.927	110.851	100.924	26.924	74.000	PEAK
2		2483.500	-9.856	76.784	66.928	-7.072	74.000	PEAK
3		2483.500	-9.856	54.360	44.504	-9.496	54.000	AVERAGE
4		2490.060	-9.843	77.518	67.676	-6.324	74.000	PEAK
5		2490.060	-9.843	54.320	44.478	-9.522	54.000	AVERAGE
6		2500.000	-9.810	72.563	62.753	-11.247	74.000	PEAK
7		2500.000	-9.810	52.340	42.530	-11.470	54.000	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Fred	
Site : EMC Lab AC 102	**Time : 2010/05/09 - 13:07**
Limit : FCC_15_03M_PK	**Margin : 6**
EUT : Wireless router with VDSL2/ADSL broadband access	**Probe : BBHA9120D(1-18GHz) - VERTICAL**
Power : AC120V/60Hz	**Note : Mode 4: Transmit by 802.11n（40MHz）(An0) (2452MHz)**

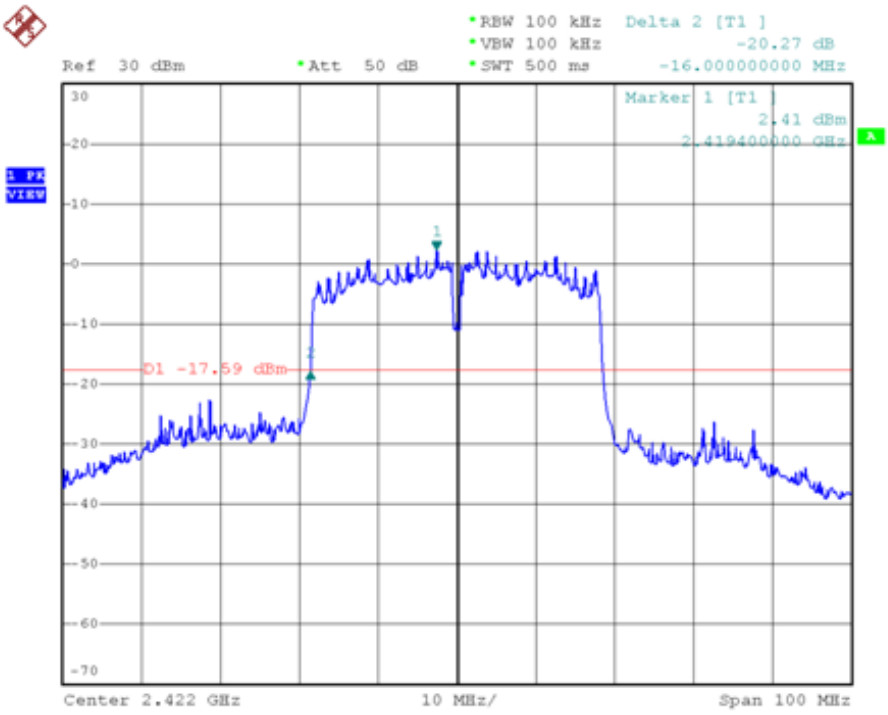


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2453.413	-9.929	114.825	104.896	30.896	74.000	PEAK
2		2483.500	-9.856	73.680	63.824	-10.176	74.000	PEAK
3		2483.500	-9.856	53.620	43.764	-10.236	54.000	AVERAGE
4		2489.701	-9.843	75.457	65.614	-8.386	74.000	PEAK
5		2489.701	-9.843	55.320	45.477	-8.523	54.000	AVERAGE
6		2500.000	-9.810	73.932	64.122	-9.878	74.000	PEAK
7		2500.000	-9.810	53.160	43.350	-10.650	54.000	AVERAGE

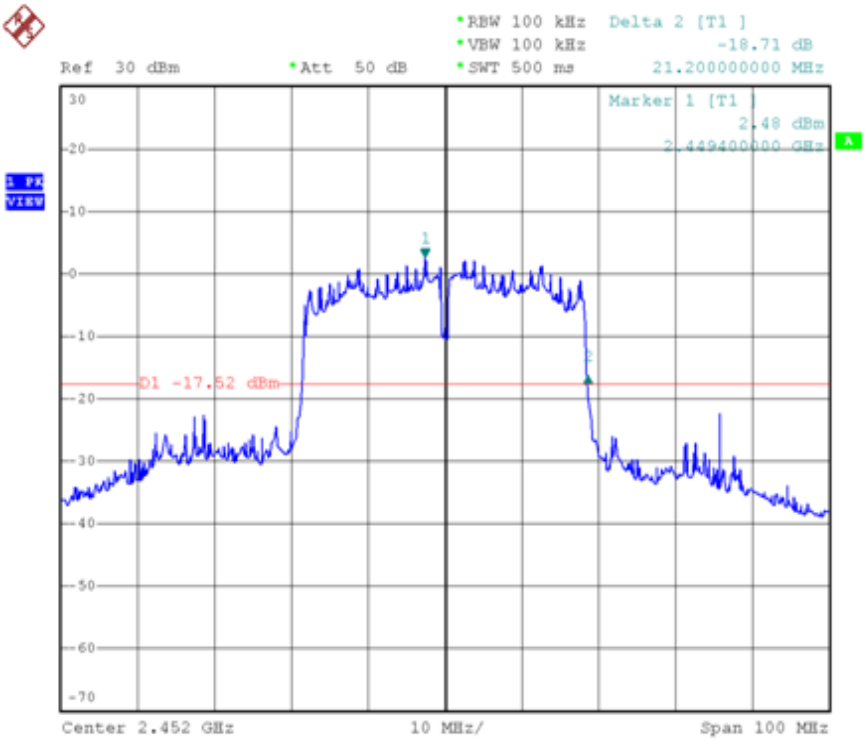
Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Band Edge (20dBc RF Conducted Measurement)
Mode 4: Transmit by 802.11n（40MHz）(An0) (2422MHz)



Band Edge (20dBc RF Conducted Measurement)
Mode 4: Transmit by 802.11 n（40MHz）(An0) (2452MHz)



8. Power Spectral Density

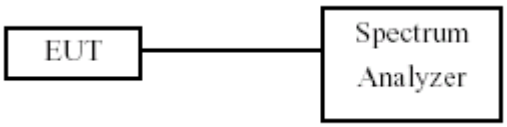
8.1. Test Limit

For digitally modulated systems, the 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.

8.2. Test Procedure

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

8.3. Test Setup Layout



8.4. Measurement Equipment

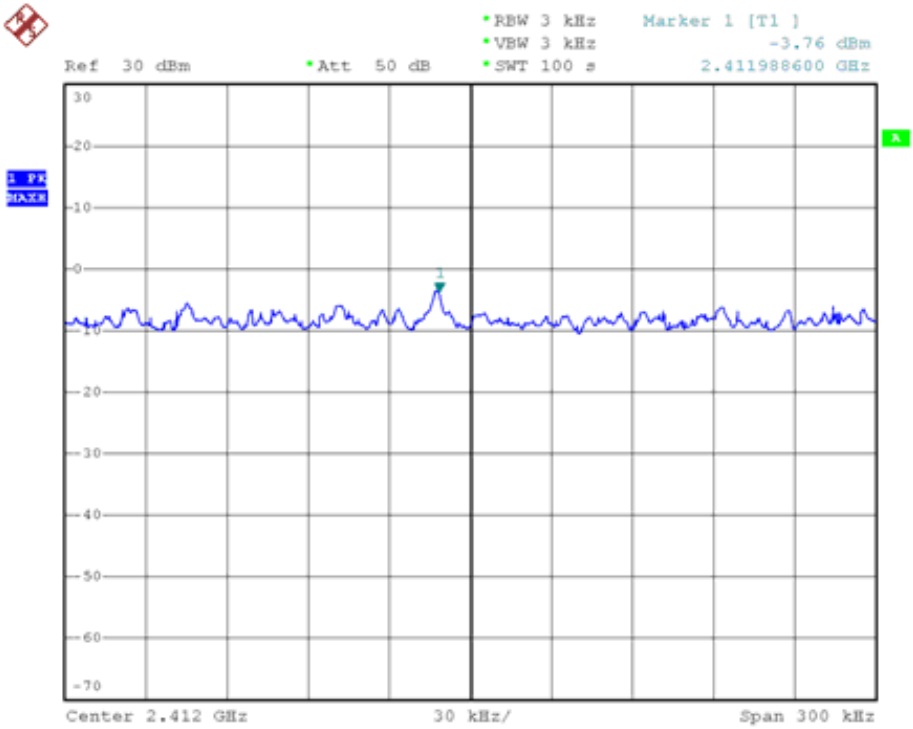
Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date
Spectrum Analyzer	R&S	FSP40	100324	2009.11.02
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2009.10.19

8.5. Test Result and Data

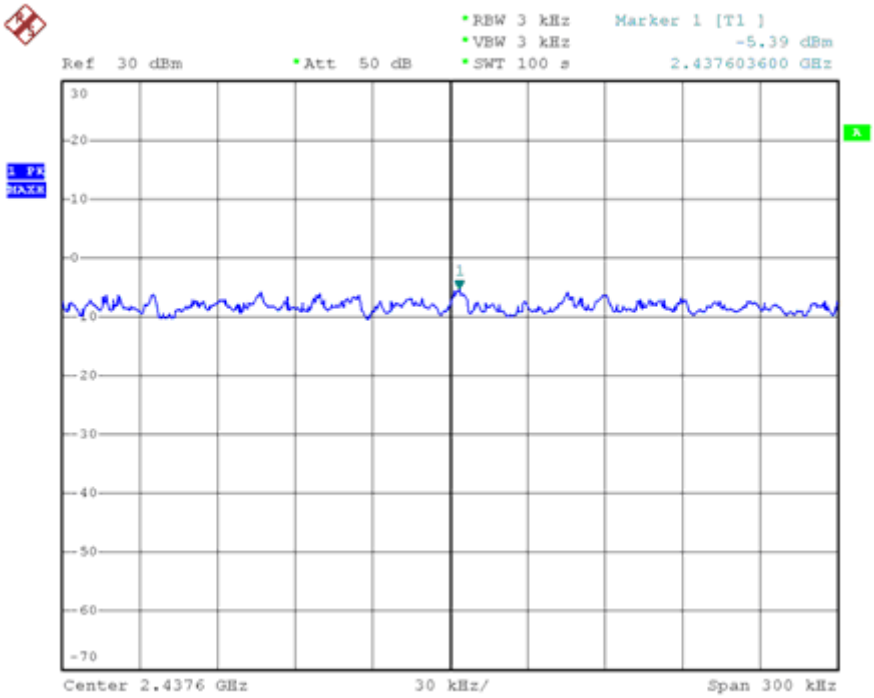
Test Item	Power Spectral Density
Test Mode	Mode 1: Transmit by 802.11b (An0)
Test Date	2010-05-10

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-3.76	8	Pass
06	2437	-5.39	8	Pass
11	2462	-3.88	8	Pass

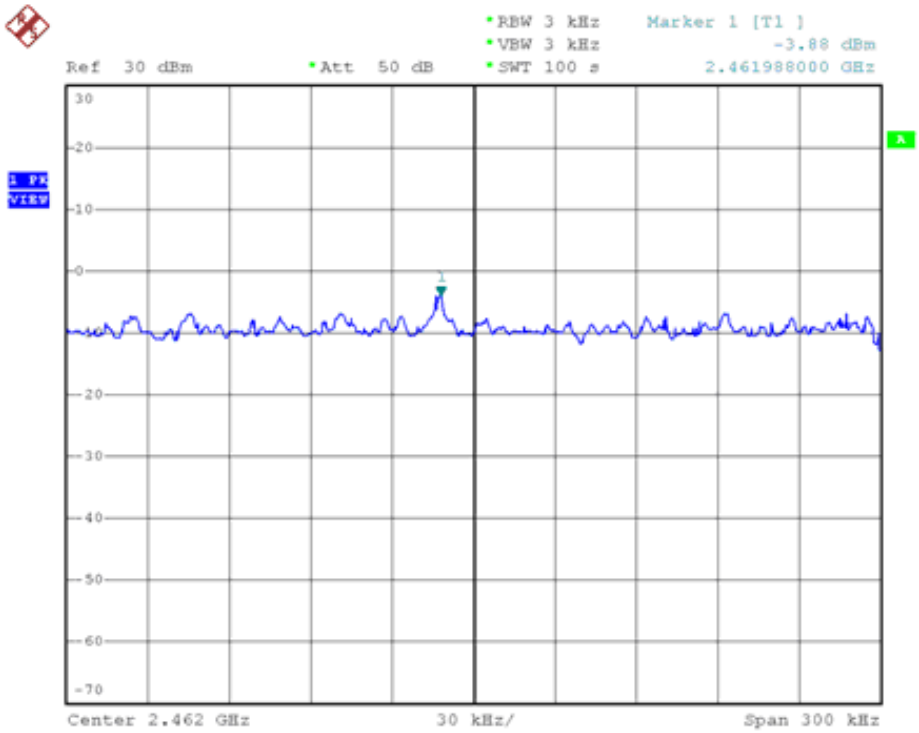
Channel 01 (2412MHz)



Channel 06 (2437MHz)



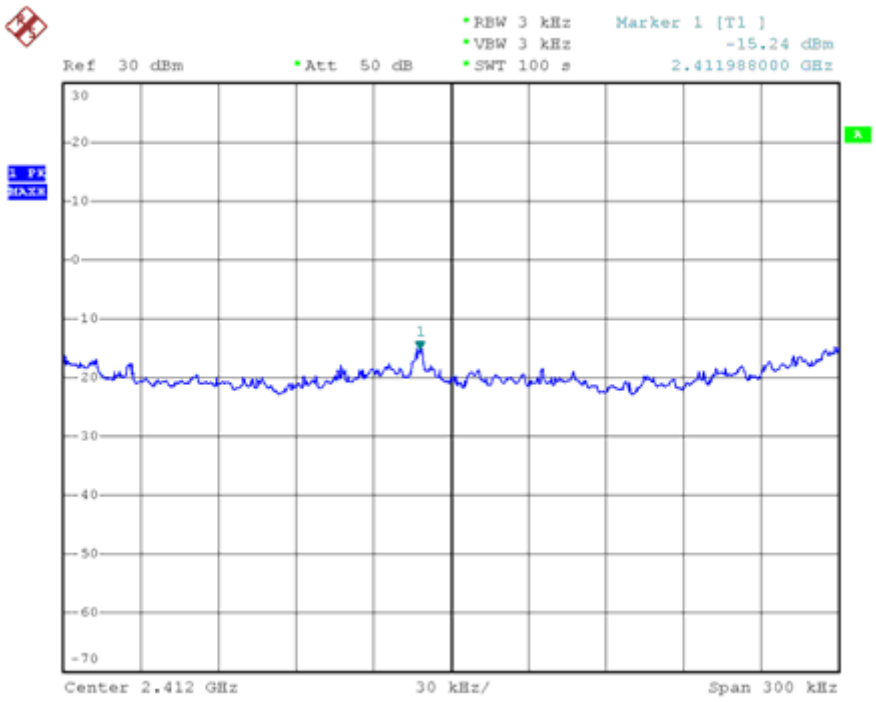
Channel 11 (2462MHz)



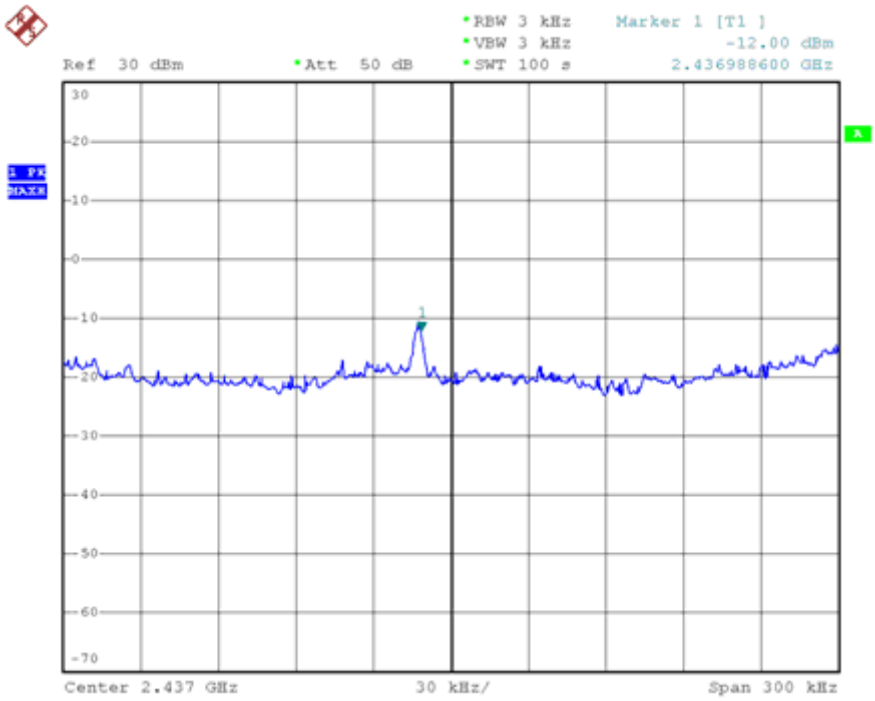
Test Item	Power Spectral Density
Test Mode	Mode 2: Transmit by 802.11g (An0)
Test Date	2010-05-10

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-15.24	8	Pass
06	2437	-12.00	8	Pass
11	2462	-13.32	8	Pass

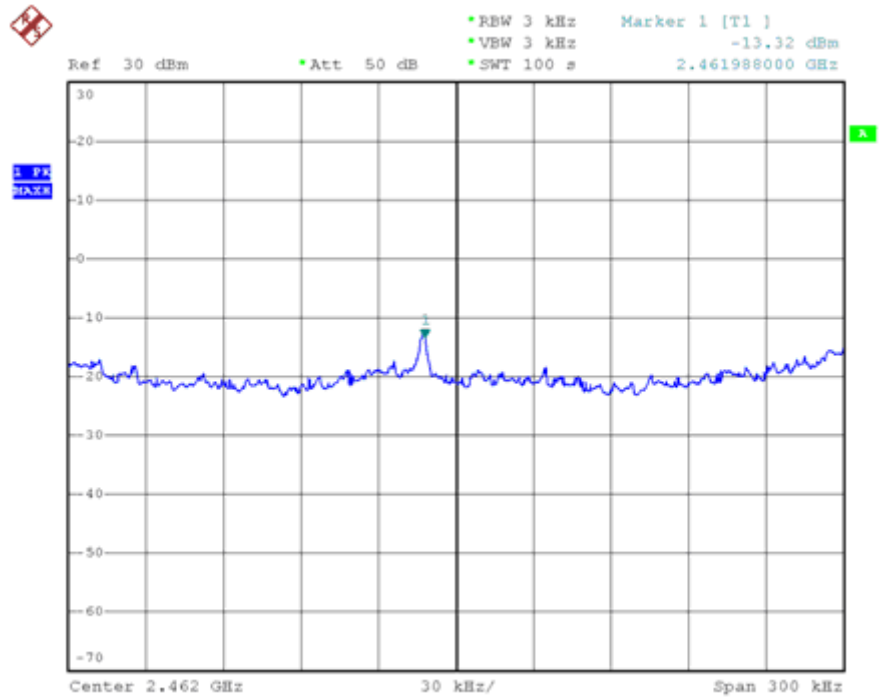
Channel 01 (2412MHz)



Channel 06 (2437MHz)



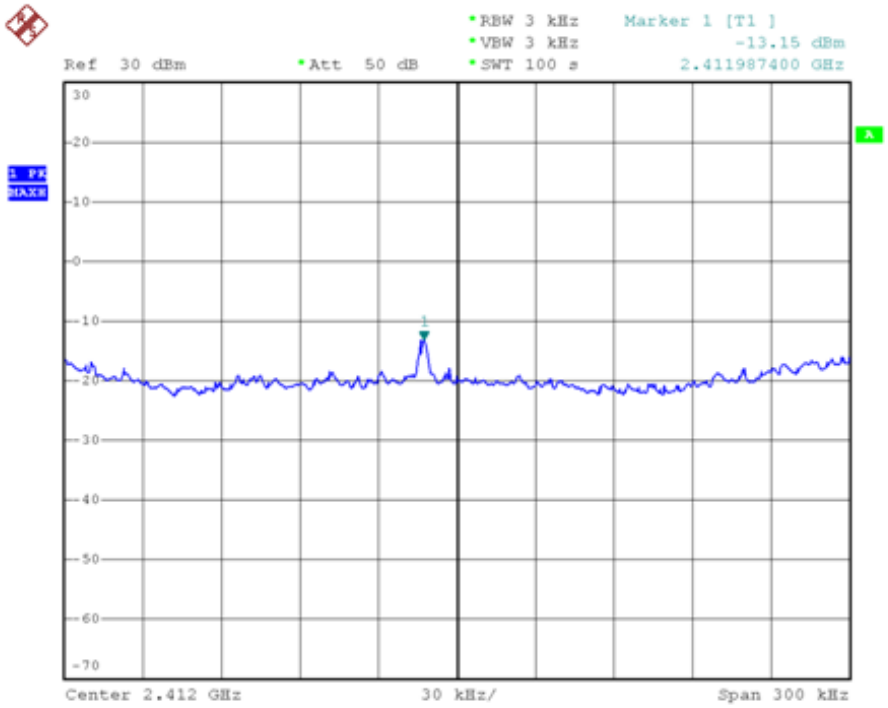
Channel 11 (2462MHz)



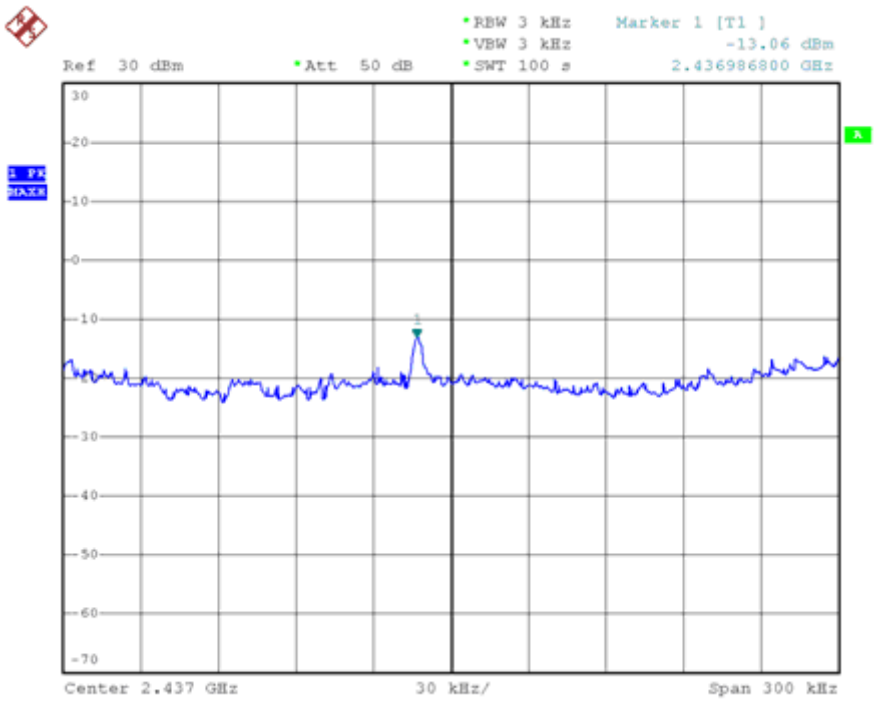
Test Item	Power Spectral Density
Test Mode	Mode 3: Transmit by 802.11n（20MHz）(An0)
Test Date	2010-05-10

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-13.15	8	Pass
06	2437	-13.06	8	Pass
11	2462	-12.42	8	Pass

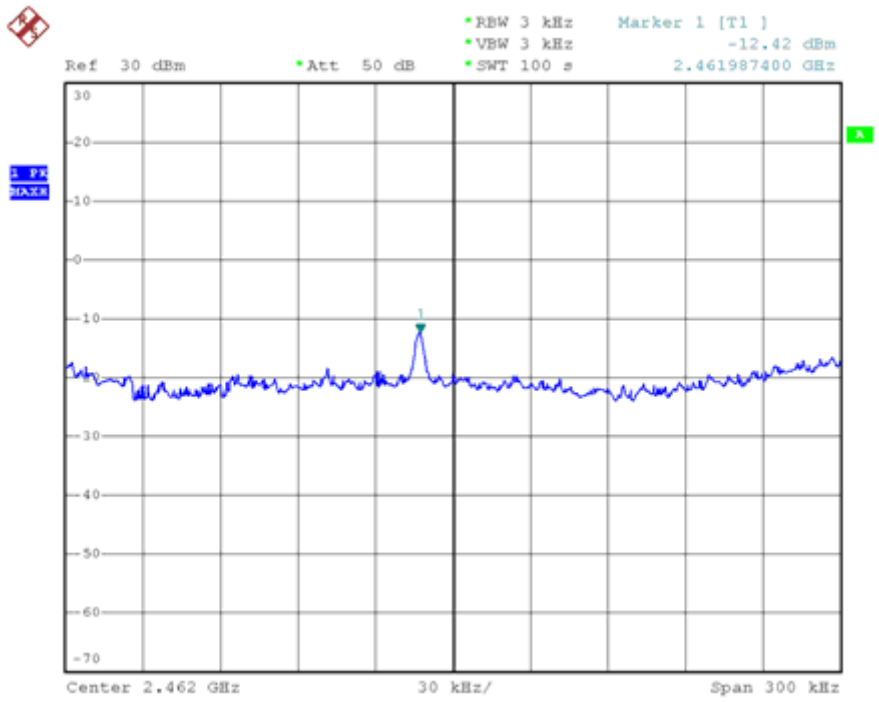
Channel 01 (2412MHz)



Channel 06 (2437MHz)



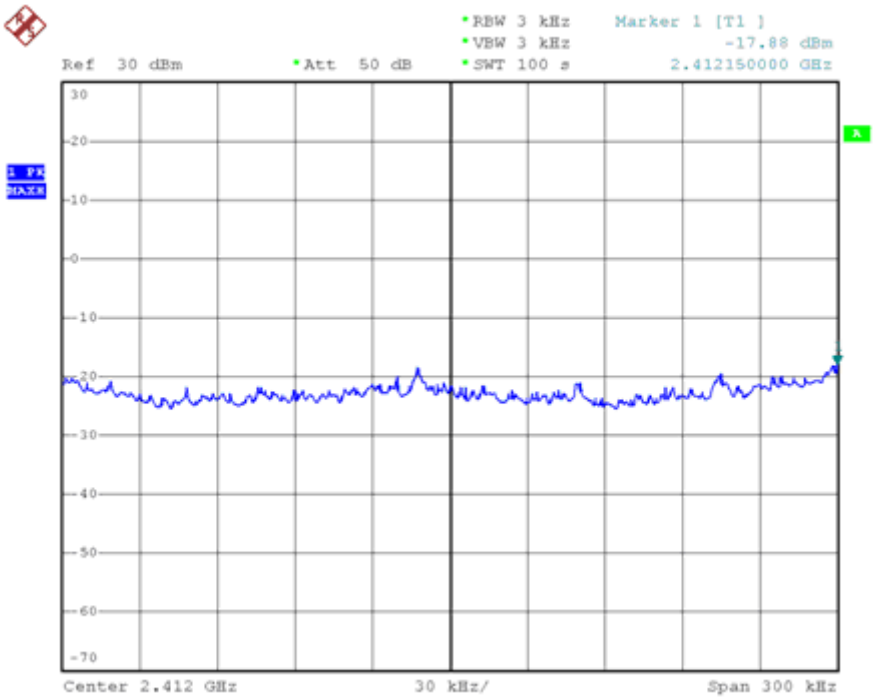
Channel 11 (2462MHz)



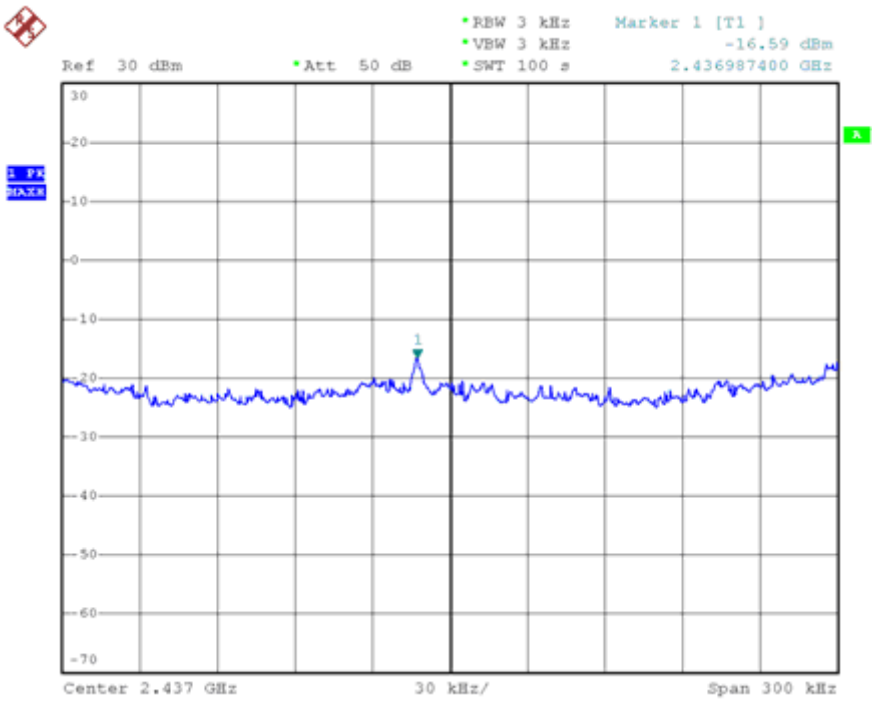
Test Item	Power Spectral Density
Test Mode	Mode 3: Transmit by 802.11n（20MHz）(An1)
Test Date	2010-05-10

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-17.88	8	Pass
06	2437	-16.59	8	Pass
11	2462	-17.99	8	Pass

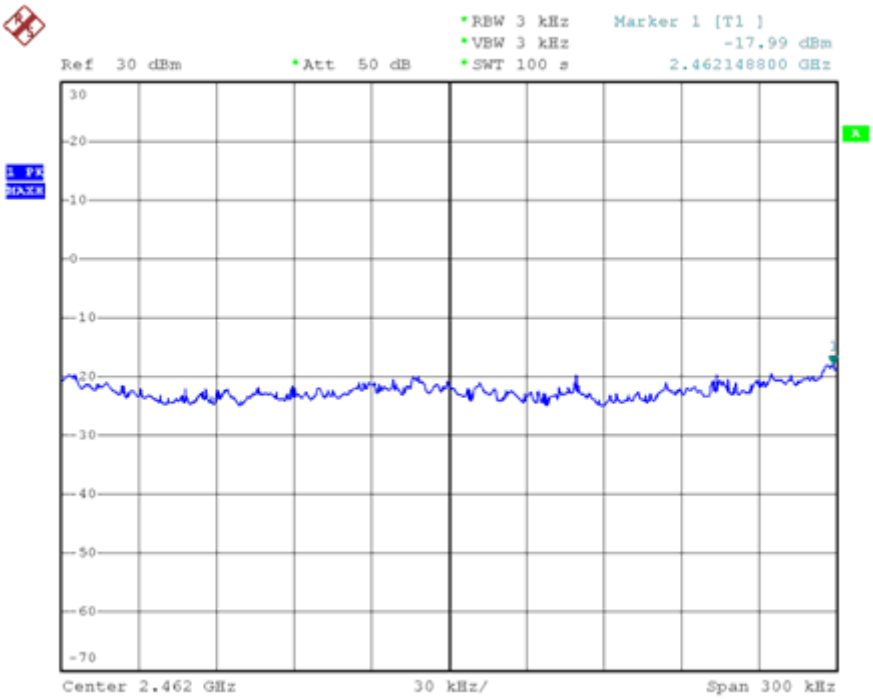
Channel 01 (2412MHz)



Channel 06 (2437MHz)



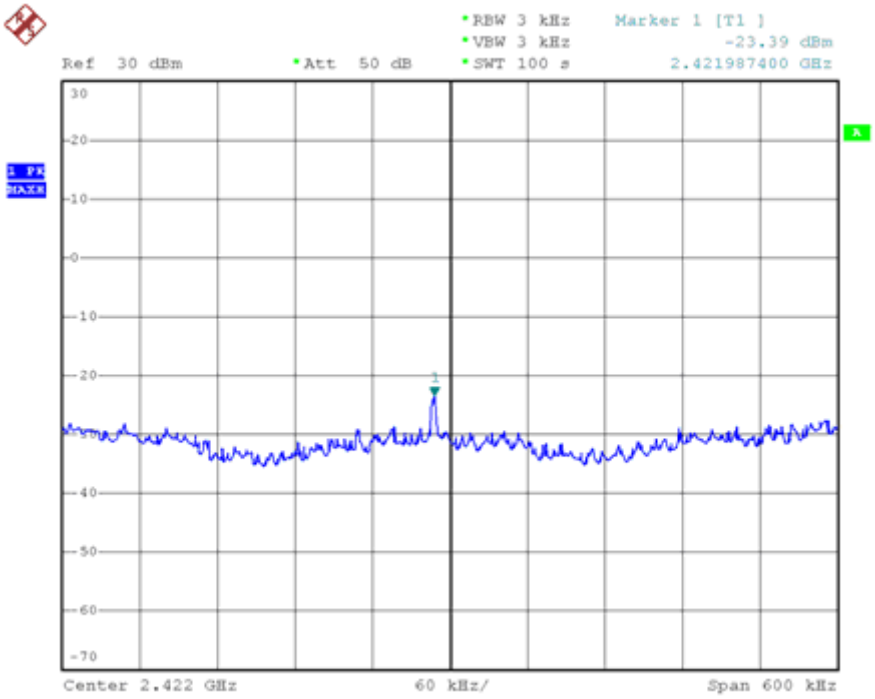
Channel 11 (2462MHz)



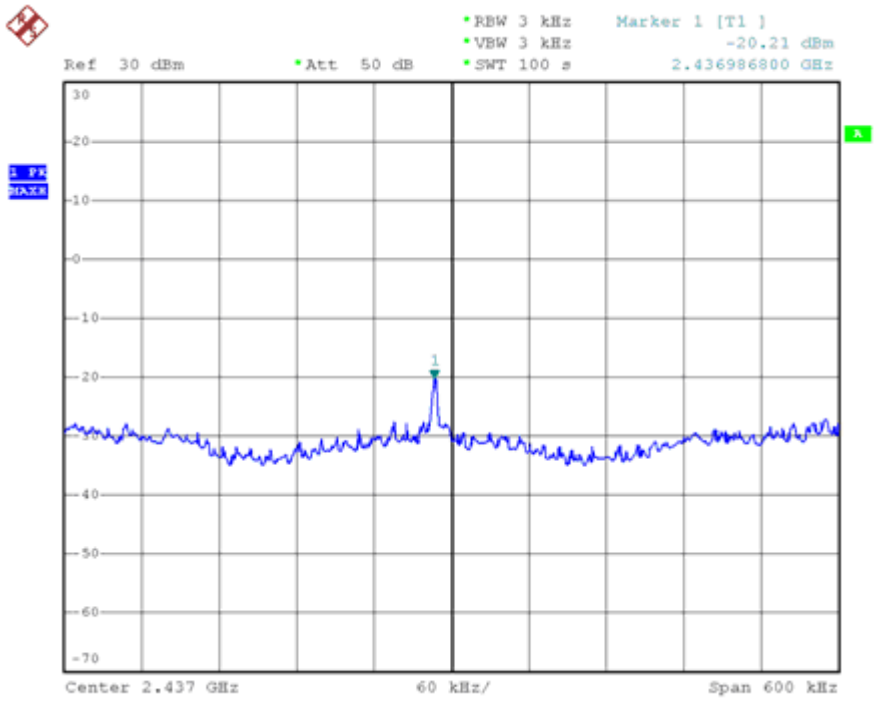
Test Item	Power Spectral Density
Test Mode	Mode 4: Transmit by 802.11n（40MHz）(An0)
Test Date	2010-05-10

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
03	2422	-23.39	8	Pass
06	2437	-20.21	8	Pass
09	2452	-21.73	8	Pass

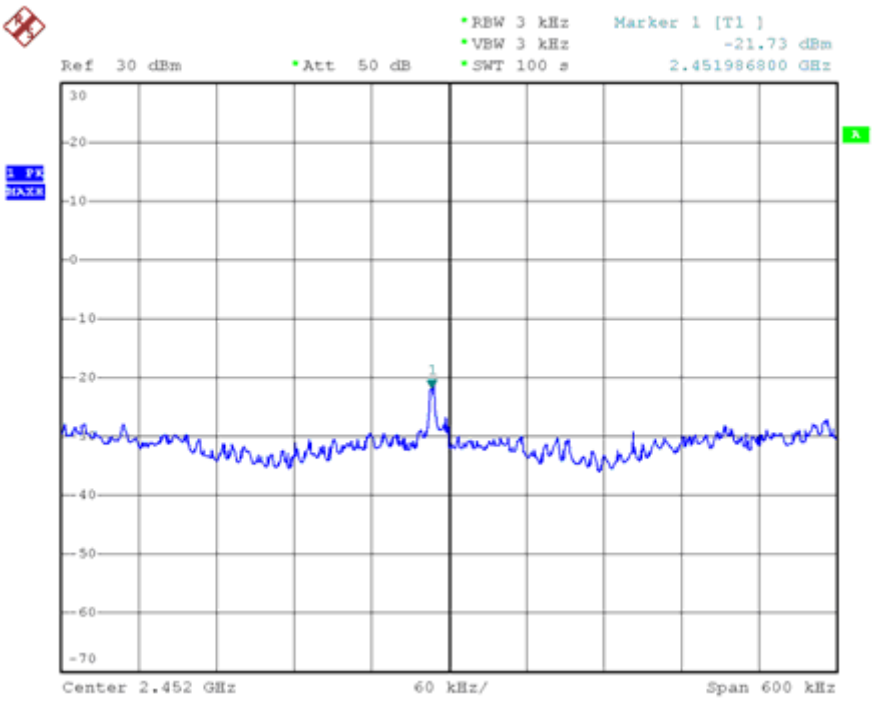
Channel 03 (2422MHz)



Channel 06 (2437MHz)



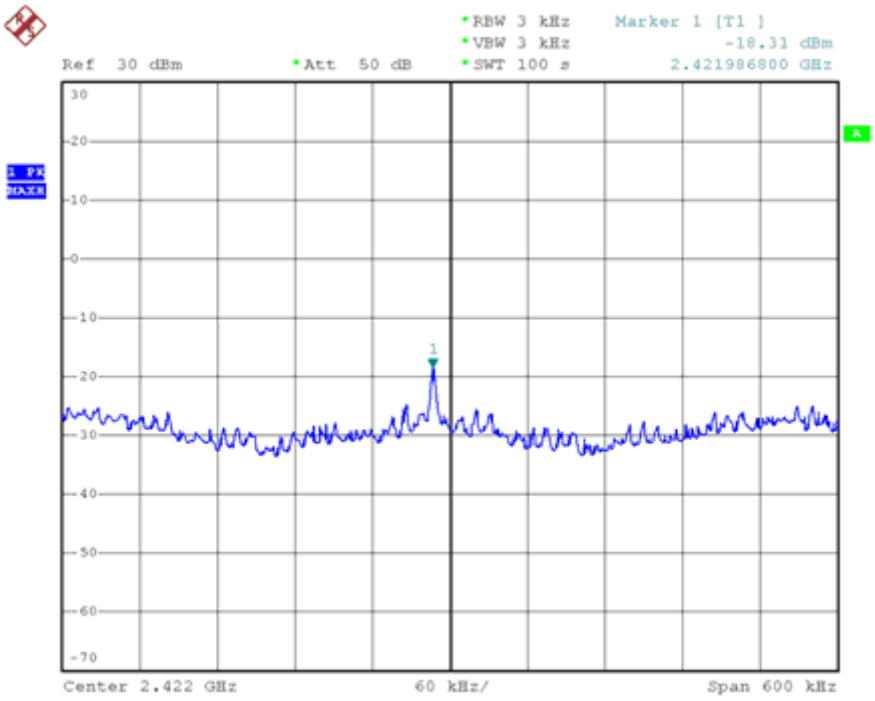
Channel 09 (2452MHz)



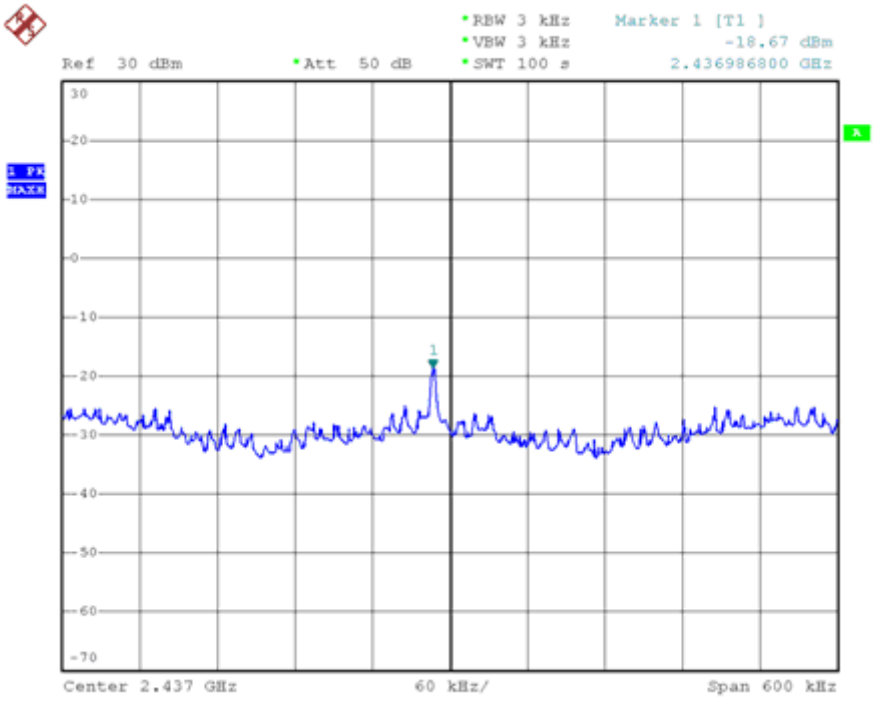
Test Item	Power Spectral Density
Test Mode	Mode 4: Transmit by 802.11n（40MHz）(An1)
Test Date	2010-05-10

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
03	2422	-18.31	8	Pass
06	2437	-18.67	8	Pass
09	2452	-23.10	8	Pass

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)