



Test Report

Product Name : Wireless ADSL2+ Router
Model No. : DSL-2640R
FCC ID. : KA2DSL2640R

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

Date of Receipt : 2007/09/17
Issued Date : 2007/10/19
Report No. : 079220R-RFUSP05V01

The test results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

Test Report Certification

Issued Date : 2007/10/19

Report No. : 079220R-RFUSP05V01



Product Name : Wireless ADSL2+ Router

Applicant : D-Link Corporation

Address : No.289, Sinhu 3rd Rd., Neihu Distrct, Taipei City 114,
Taiwan, R.O.C.

Manufacturer : Alpha Networks Inc.

Model No. : DSL-2640R

FCC ID. : KA2DSL2640R

Rated Voltage : AC 120 V / 60 Hz

EUT Voltage : AC 120 V / 60 Hz

Trade Name : D-Link

Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2006

Test Result : Complied

The test results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of Quietek Corporation.

Documented By : *Demi Chang*
(Demi Chang / Engineering Adm. Specialist)

Reviewed By : *Halu Chung*
(Halu Chung / Assistant Engineer)

Approved By : *Roy Wang*
(Roy Wang / Manager)

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1. General Information

1.1. EUT Description

Product Name	Wireless ADSL2+ Router
Trade Name	D-Link
Model No.	DSL-2640R
Frequency Range	2412~2462MHz
Channel Number	11
Type of Modulation (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Type of Modulation (IEEE 802.11g)	Orthogonal Frequency Division Multiplexing (OFDM)
Data Speed (IEEE 802.11b)	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data Speed (IEEE 802.11g)	6Mbps,9Mbps,12Mbps,18Mbps,24Mbps,36Mbps,48Mbps,54Mbps
Antenna Gain	2dBi
Channel Control	Manual
Antenna Type	I-PEX (Application: 1/4 Dipole Antenna , Model Number: THW2056A)

Component	
Telecom Cable	Non-Shielded, 1.82m
LAN Cable	Non-Shielded, 1.6m
Power Adapter	AMIGO, AM-121200 A I/P: 120Vac / 60Hz / 200mA O/P: 12VAC, 1200mA, 14.4VA Cable Out: Non-Shielded, 1.8m

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

Note:

1. This device is a Wireless ADSL2+ Router included a 2.4GHz receiving function, and 2.4GHz transmitting function.
2. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
3. Regards to the frequency band operation; the highest rate that was included the lowest, middle and highest frequency of channel were selected to perform the test, and then shown on this report.
4. This device is a composite device in accordance with Part 15 regulations. The function receiving was measured and made a test report that the report number is 075H006-RFUSP01V02 under Declaration of Conformity.

1.2. Operational Description

The EUT is capable of transferring data with a maximum wireless signal rate of up to 11 Mbps and 54Mbps in the 2.4GHz frequency — the same wireless frequency as 802.11b. The EUT also offers four Ethernet ports to support multiple computers.

The advanced wireless technology built into the EUT offers data transfer speeds with a maximum wireless signal rate of up to 11 Mbps and 54Mbps through its wireless channels allowing streaming videos and other high bandwidth applications, such as online gaming events, to operate without the hassle of Ethernet cables. The ability to use high bandwidth applications also makes streaming real-time programs more enjoyable and more efficient.

The device delivers Internet sharing, local area network connectivity and security in a single device. The EUT has a 10/100 WAN port for connection to Cable or xDSL modem. The four-port 10/100 Ethernet switch along with the built-in 802.11b/g wireless access point provides network connectivity to multiple machines in the Local Area Network (LAN).

Preliminary tests were performed at different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. The following table is a list of the test modes shown in this test report.

Test Item	Mode	Channel	Data Rate
Peak Power Output	802.11b /BPSK	1/6/11	1Mbps
	802.11g /BPSK	1/6/11	6Mbps
Conducted Emission	802.11b /CCK	6	11Mbps
	802.11g /64-QAM	6	54Mbps
Radiated Emission	802.11b /BPSK	1/6/11	1Mbps
	802.11g /BPSK	1/6/11	6Mbps
Band Edge	802.11b /BPSK	1/11	1Mbps
	802.11g /BPSK	1/11	6Mbps
Occupied Bandwidth	802.11b /BPSK	1/6/11	1Mbps
	802.11g /BPSK	1/6/11	6Mbps
Power Density	802.11b /BPSK	1/6/11	1Mbps
	802.11g /BPSK	1/6/11	6Mbps

1.3. Test Mode

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

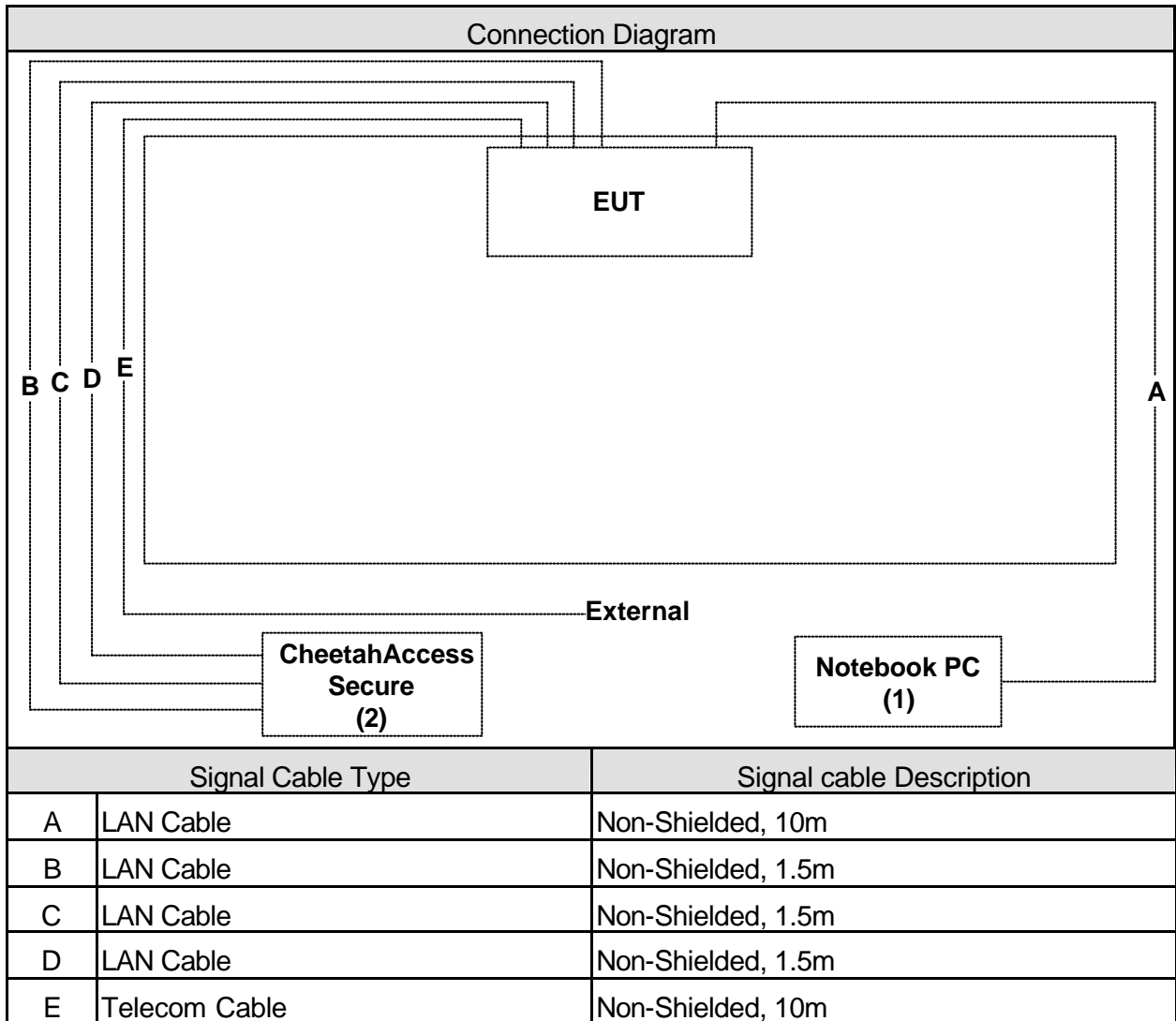
Pre-Test Mode	
EMI	Mode 1: Transmit
Final Test Mode	
TX	Mode 1: Transmit

1.4. Tested System Details

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

Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1 Notebook PC	DELL	LATITUDE D400	N/A	DoC	Non-Shielded, 1.7m, one ferrite core bonded
2 CheetahAccess Secure	Accton	AC-IG1104	N/A	DoC	Non-Shielded, 1.8m

1.5. Configuration of tested System



1.6. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.4.
2	Turn on the power of all equipment.
3	Boot the Notebook PC from Hard Disk.
4	Data will be communicated between computer and EUT.
5	All the peripheral will be retrieved during the test.
6	Repeat the above procedure (4) to (5).

1.7. Test Facility

Ambient conditions in the laboratory:

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

Site Description:

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



Accredited by CNLA
Accreditation Number: 1313
Effective through: September 27, 2007



1313

ILAC MRA

Accredited by NVLAP
NVLAP Lab Code: 200347-0
Effective through: September 30, 2006



NVLAP Lab Code : 200347-0

Site Name: Quietek Corporation
Site Address: No.75-1, Wang-Yeh Valley, Yung-Hsing,
Chiung-Lin, Hsin-Chu County,
Taiwan, R.O.C.

TEL : 886-3-592-8858 / FAX : 886-3-592-8859
E-Mail : service@quietek.com

2. Peak Power Output

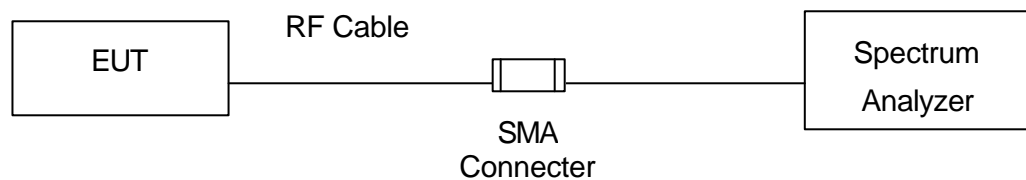
2.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R&S	FSP/ 100005	Oct., 2007
2	No.1 OATS			Sep., 2007

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2.2. Test Setup



2.3. Limits

The maximum peak power shall be less 1 Watt.

2.4. Test Specification

According to FCC CFR Title 47 Part 15 Subpart C Section 15.247:2005

2.5. Uncertainty

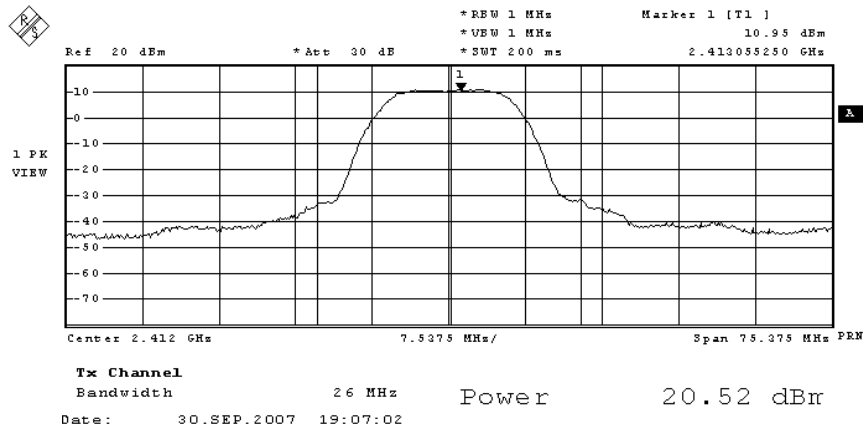
The measurement uncertainty is defined as ± 1.27 dB.

2.6. Test Result

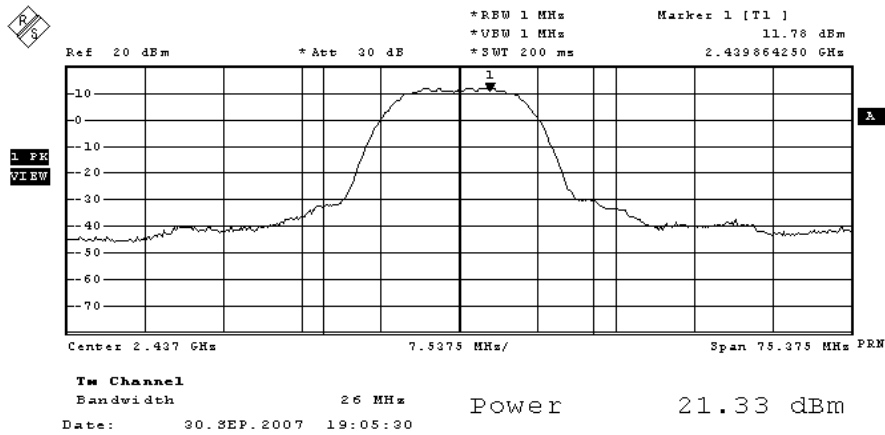
Product	Wireless ADSL2+ Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2007/09/30	Test Site	No.1 OATS

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	20.52	1Watt= 30 dBm	Pass
6	2437	21.33	1Watt= 30 dBm	Pass
11	2462	22.25	1Watt= 30 dBm	Pass

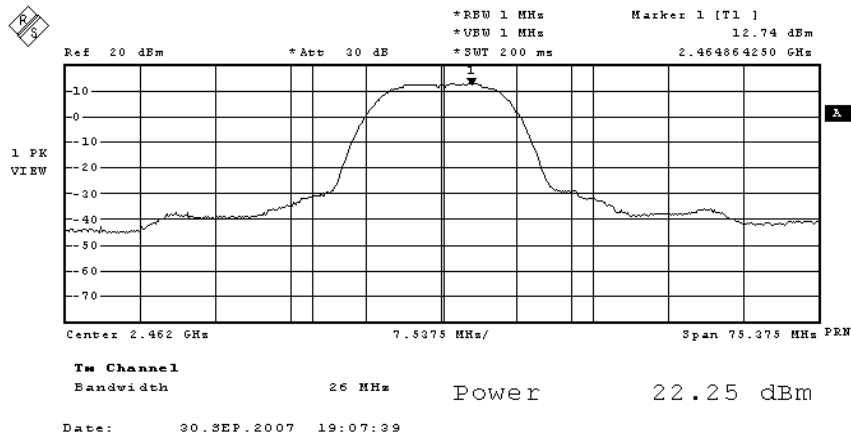
Channel 1



Channel 6



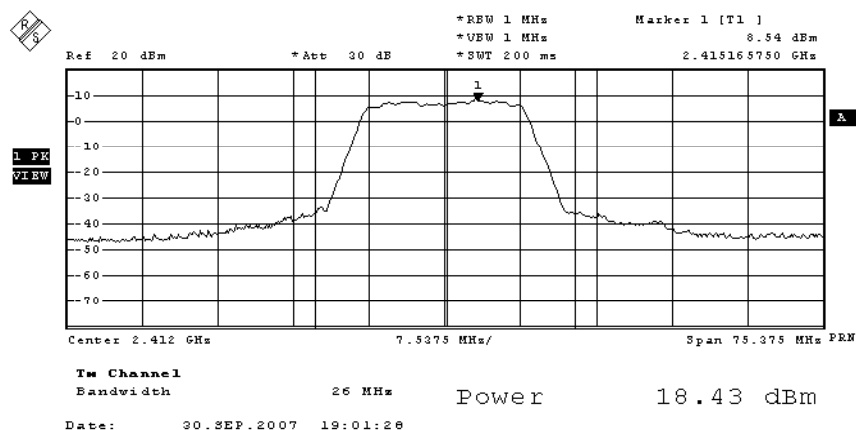
Channel 11



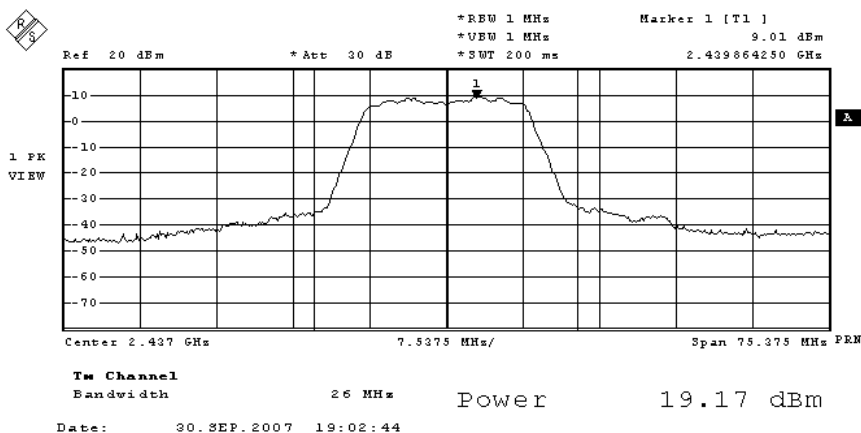
Product	Wireless ADSL2+ Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2007/09/30	Test Site	No.1 OATS

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	18.43	1Watt= 30 dBm	Pass
6	2437	19.17	1Watt= 30 dBm	Pass
11	2462	20.31	1Watt= 30 dBm	Pass

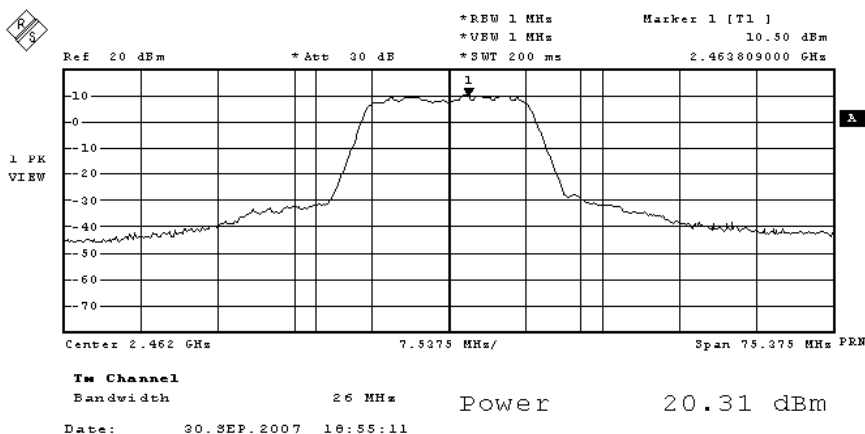
Channel 1



Channel 6



Channel 11



3. Conducted Emission

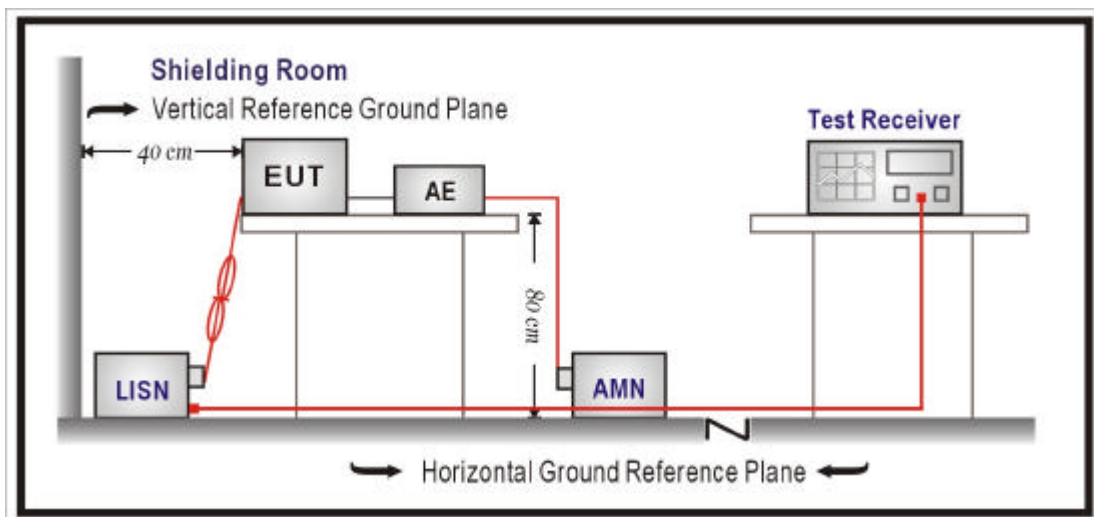
3.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/018	Sep., 2007	
2	Artificial Mains Network	R & S	ENV4200/848411/10	Feb., 2007	Peripherals
3	LISN	R & S	ESH3-Z5/825562/002	Feb., 2007	EUT
4	Pulse Limiter	R & S	ESH3-Z2/357.8810.52	Feb., 2007	
5	No.2 Shielded Room			N/A	

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

3.2. Test Setup



3.3. Limits

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

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

3.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.

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

3.5. Test Specification

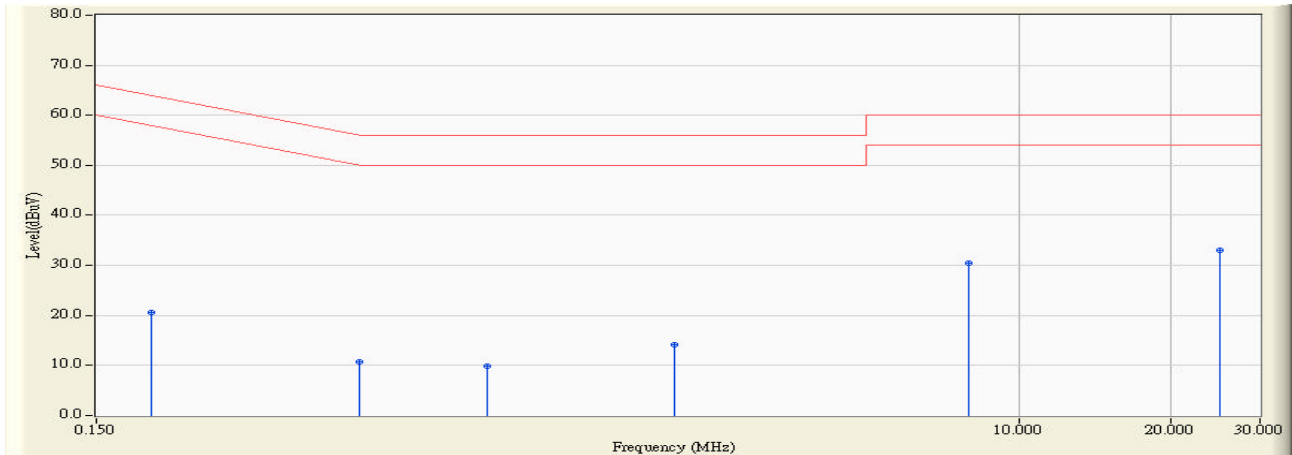
According to FCC Part 15 Subpart C Paragraph 15.207: 2006

3.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

3.7. Test Result

Site : ShieldingRoom 2	Time : 2007/09/27 - 15:00
Limit : CISPR_B_00M_QP	Margin : 6
EUT : Wireless ADSL2+ Router	Probe : QTK-LISN-SR2 - Line1
Power : AC 120V / 60 Hz	Note : Mode 1: Transmit-B

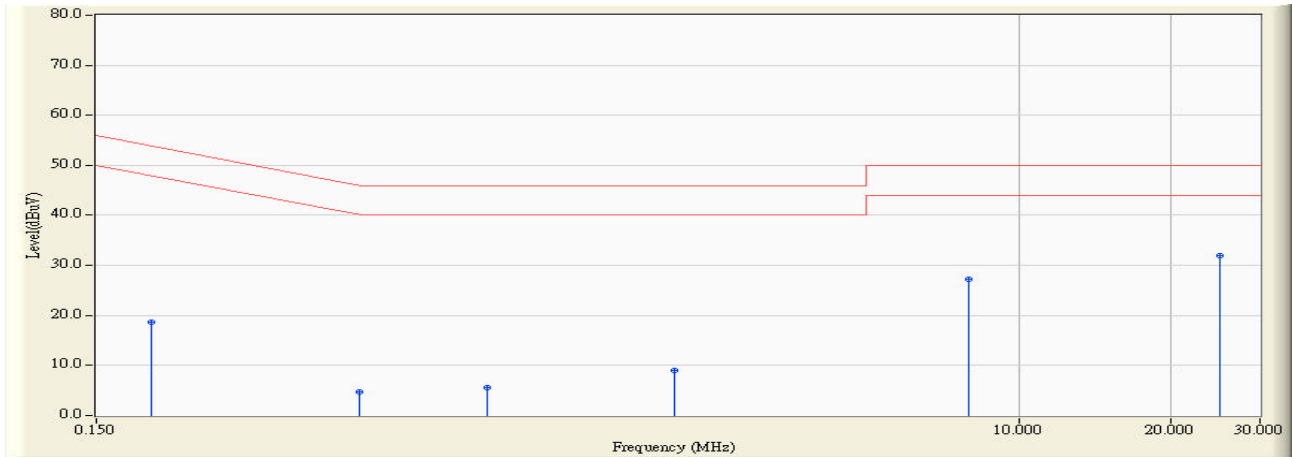


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.193	0.200	20.350	20.550	-44.221	64.771	QUASIPeAK
2		0.498	0.210	10.440	10.650	-45.407	56.057	QUASIPeAK
3		0.888	0.210	9.720	9.930	-46.070	56.000	QUASIPeAK
4		2.080	0.320	13.730	14.050	-41.950	56.000	QUASIPeAK
5		7.970	0.540	29.970	30.510	-29.490	60.000	QUASIPeAK
6	*	25.002	1.330	31.740	33.070	-26.930	60.000	QUASIPeAK

Note:

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

Site : ShieldingRoom 2	Time : 2007/09/27 - 15:00
Limit : CISPR_B_00M_AV	Margin : 6
EUT : Wireless ADSL2+ Router	Probe : QTK-LISN-SR2 - Line1
Power : AC 120V / 60 Hz	Note : Mode 1: Transmit-B

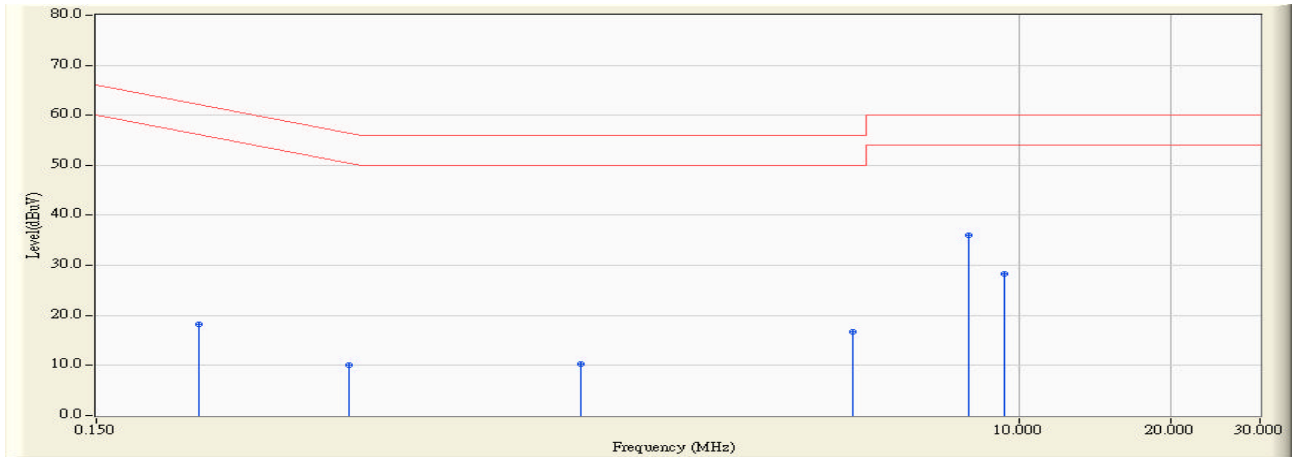


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.193	0.200	18.410	18.610	-36.161	54.771	AVERAGE
2		0.498	0.210	4.460	4.670	-41.387	46.057	AVERAGE
3		0.888	0.210	5.260	5.470	-40.530	46.000	AVERAGE
4		2.080	0.320	8.770	9.090	-36.910	46.000	AVERAGE
5		7.970	0.540	26.650	27.190	-22.810	50.000	AVERAGE
6	*	25.002	1.330	30.540	31.870	-18.130	50.000	AVERAGE

Note:

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

Site : ShieldingRoom 2	Time : 2007/09/27 - 15:06
Limit : CISPR_B_00M_QP	Margin : 6
EUT : Wireless ADSL2+ Router	Probe : QTK-LISN-SR2 - Line2
Power : AC 120V / 60 Hz	Note : Mode 1: Transmit-B

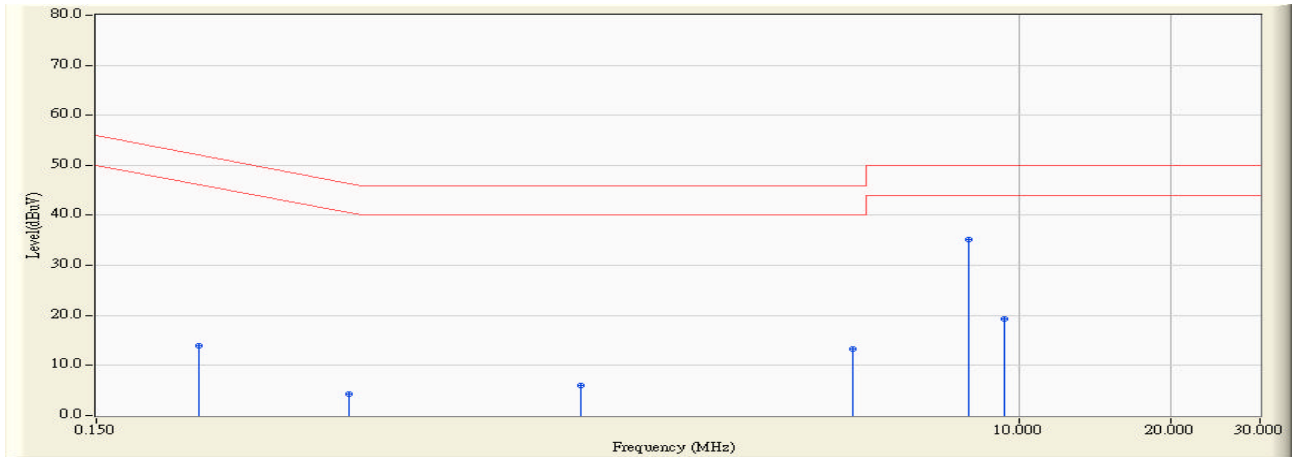


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.240	0.200	18.120	18.320	-45.109	63.429	QUASPEAK
2	0.474	0.205	9.980	10.185	-46.558	56.743	QUASPEAK
3	1.361	0.211	10.120	10.331	-45.669	56.000	QUASPEAK
4	4.689	0.380	16.440	16.820	-39.180	56.000	QUASPEAK
5	* 7.978	0.480	35.490	35.970	-24.030	60.000	QUASPEAK
6	9.357	0.510	27.870	28.380	-31.620	60.000	QUASPEAK

Note:

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

Site : ShieldingRoom 2	Time : 2007/09/27 - 15:06
Limit : CISPR_B_00M_AV	Margin : 6
EUT : Wireless ADSL2+ Router	Probe : QTK-LISN-SR2 - Line2
Power : AC 120V / 60 Hz	Note : Mode 1: Transmit-B

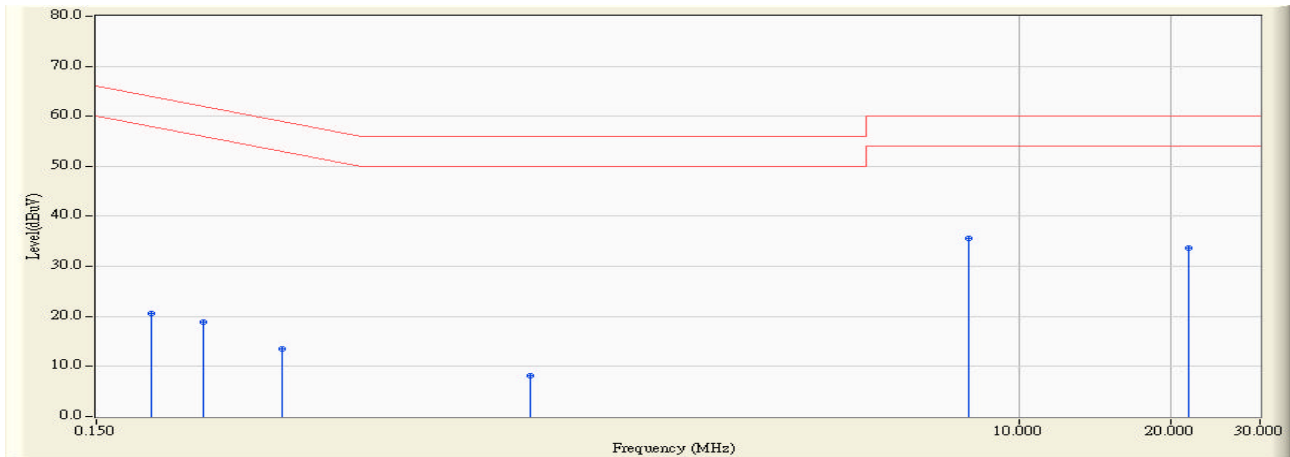


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.240	0.200	13.750	13.950	-39.479	53.429	AVERAGE
2	0.474	0.205	4.080	4.285	-42.458	46.743	AVERAGE
3	1.361	0.211	5.760	5.971	-40.029	46.000	AVERAGE
4	4.689	0.380	12.860	13.240	-32.760	46.000	AVERAGE
5	* 7.978	0.480	34.720	35.200	-14.800	50.000	AVERAGE
6	9.357	0.510	18.800	19.310	-30.690	50.000	AVERAGE

Note:

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

Site : ShieldingRoom 2	Time : 2007/09/27 - 15:31
Limit : CISPR_B_00M_QP	Margin : 6
EUT : Wireless ADSL2+ Router	Probe : QTK-LISN-SR2 - Line1
Power : AC 120V / 60 Hz	Note : Mode 1: Transmit-G

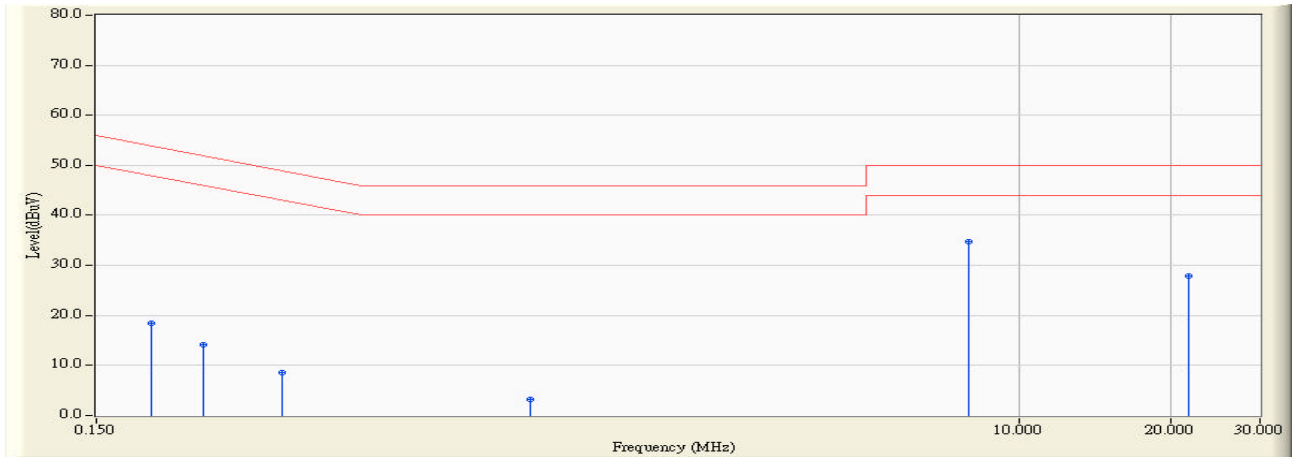


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.193	0.200	20.390	20.590	-44.181	64.771	QUASIPeAK
2	0.244	0.200	18.750	18.950	-44.364	63.314	QUASIPeAK
3	0.349	0.200	13.270	13.470	-46.844	60.314	QUASIPeAK
4	1.080	0.220	7.940	8.160	-47.840	56.000	QUASIPeAK
5	* 7.978	0.540	35.140	35.680	-24.320	60.000	QUASIPeAK
6	21.662	1.220	32.360	33.580	-26.420	60.000	QUASIPeAK

Note:

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

Site : ShieldingRoom 2	Time : 2007/09/27 - 15:31
Limit : CISPR_B_00M_AV	Margin : 6
EUT : Wireless ADSL2+ Router	Probe : QTK-LISN-SR2 - Line1
Power : AC 120V / 60 Hz	Note : Mode 1: Transmit-G

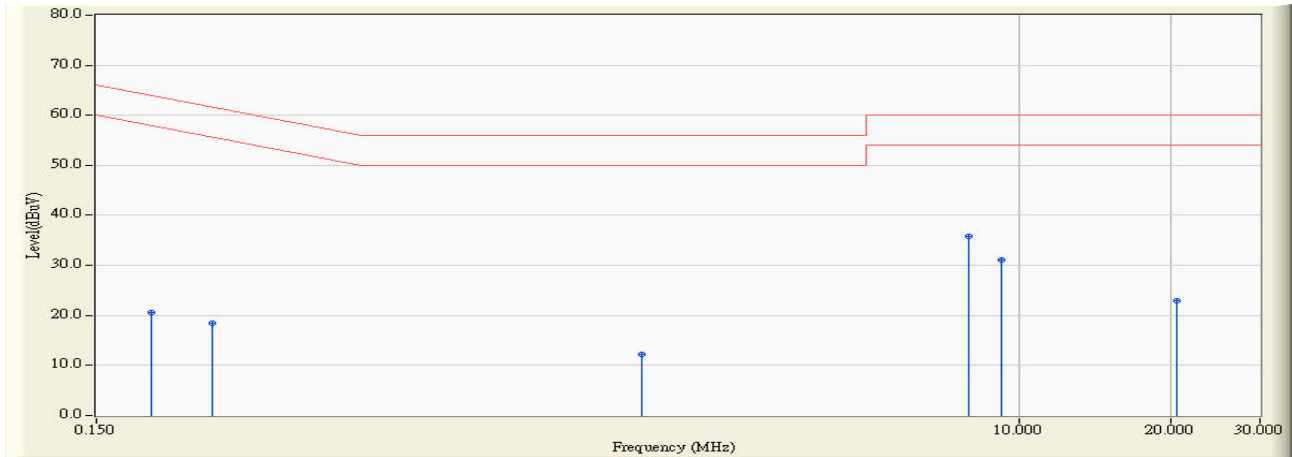


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.193	0.200	18.280	18.480	-36.291	54.771	AVERAGE
2		0.244	0.200	13.900	14.100	-39.214	53.314	AVERAGE
3		0.349	0.200	8.450	8.650	-41.664	50.314	AVERAGE
4		1.080	0.220	3.020	3.240	-42.760	46.000	AVERAGE
5	*	7.978	0.540	34.220	34.760	-15.240	50.000	AVERAGE
6		21.662	1.220	26.680	27.900	-22.100	50.000	AVERAGE

Note:

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

Site : ShieldingRoom 2	Time : 2007/09/27 - 15:34
Limit : CISPR_B_00M_QP	Margin : 6
EUT : Wireless ADSL2+ Router	Probe : QTK-LISN-SR2 - Line2
Power : AC 120V / 60 Hz	Note : Mode 1: Transmit-G

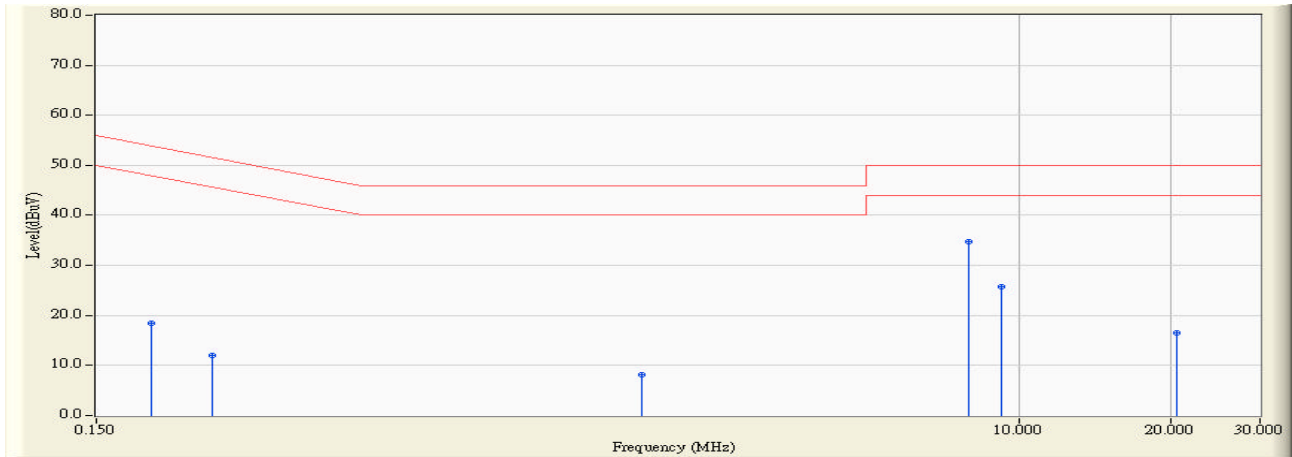


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.193	0.200	20.430	20.630	-44.141	64.771	QUASPEAK
2	0.255	0.200	18.150	18.350	-44.650	63.000	QUASPEAK
3	1.795	0.220	11.990	12.210	-43.790	56.000	QUASPEAK
4	* 7.982	0.480	35.350	35.830	-24.170	60.000	QUASPEAK
5	9.255	0.510	30.540	31.050	-28.950	60.000	QUASPEAK
6	20.478	0.890	21.960	22.850	-37.150	60.000	QUASPEAK

Note:

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

Site : ShieldingRoom 2	Time : 2007/09/27 - 15:34
Limit : CISPR_B_00M_AV	Margin : 6
EUT : Wireless ADSL2+ Router	Probe : QTK-LISN-SR2 - Line2
Power : AC 120V / 60 Hz	Note : Mode 1: Transmit-G



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.193	0.200	18.350	18.550	-36.221	54.771	AVERAGE
2	0.255	0.200	11.900	12.100	-40.900	53.000	AVERAGE
3	1.795	0.220	7.860	8.080	-37.920	46.000	AVERAGE
4	* 7.982	0.480	34.220	34.700	-15.300	50.000	AVERAGE
5	9.255	0.510	25.310	25.820	-24.180	50.000	AVERAGE
6	20.478	0.890	15.530	16.420	-33.580	50.000	AVERAGE

Note:

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

4. Radiated Emission

4.1. Test Equipment

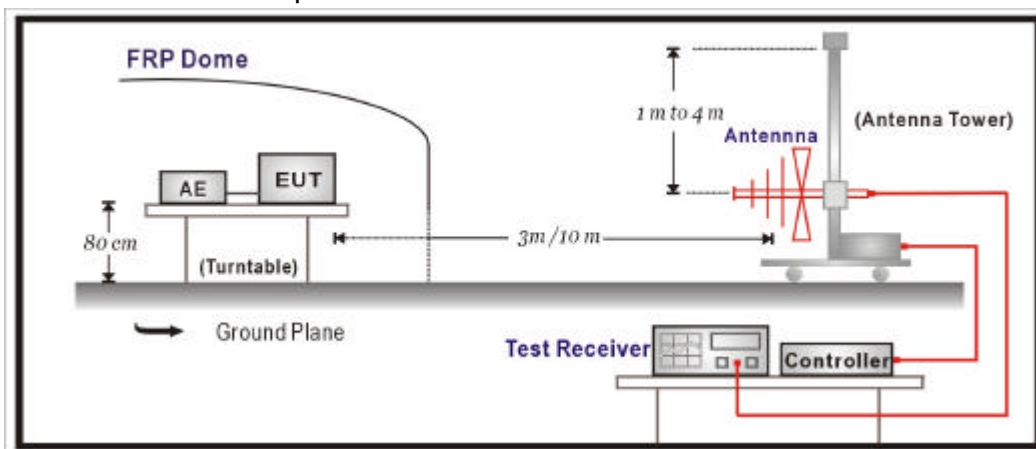
The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	X Test Receiver	R & S	ESCS 30 / 825442/017	Jan., 2007
2	X Spectrum Analyzer	Advantest	R3261C / 81720266	N/A
3	X Pre-Amplifier	HP	8447D / 2944A09276	N/A
4	X Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2007
5	X Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2007
6	X Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2007
7	X Horn Antenna	Schwarzbeck	BBHA 9120D / BBHA9120D312	Jul., 2007
8	No.1 OATS			Sep., 2007

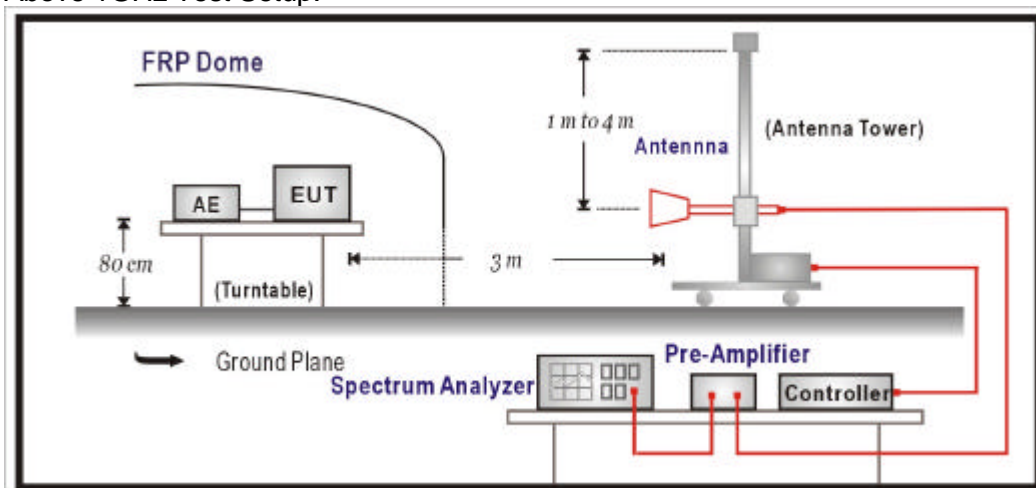
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
2. " N/A " Ca1.Date is used to Pre-test, not final test.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limits

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

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

- Remarks :
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4:2003 on radiated measurement.

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit. The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

4.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2006

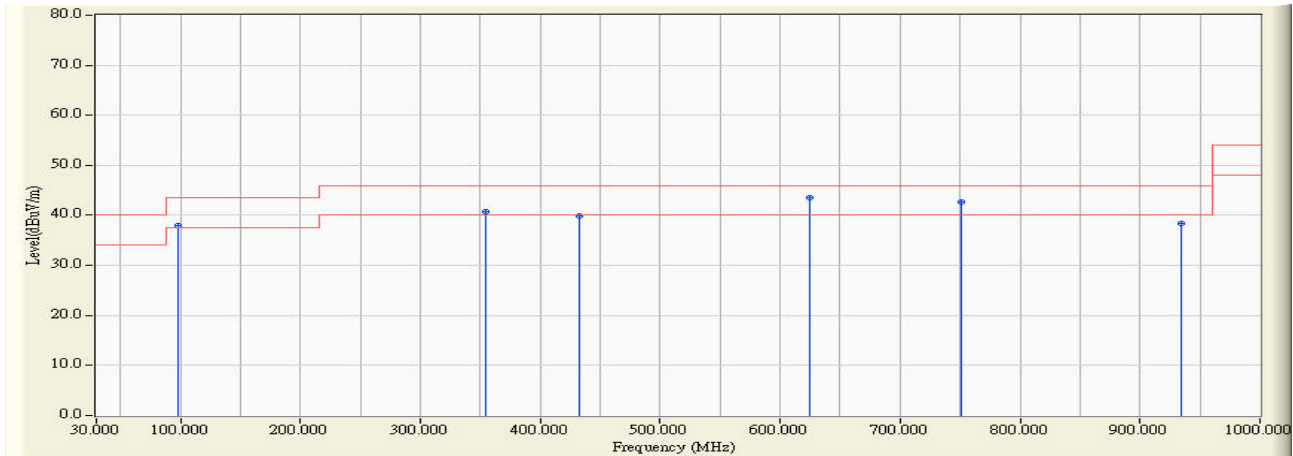
4.6. Uncertainty

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

4.7. Test Result

30MHz-1GHz Spurious:

Site : Site 1	Time : 2007/09/30 - 15:50
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Wireless ADSL2+ Router	Probe : FCC_RF_30-1G(200605) - HORIZONTAL
Power : AC120V/ 60Hz	Note : Mode 1: Transmit-B

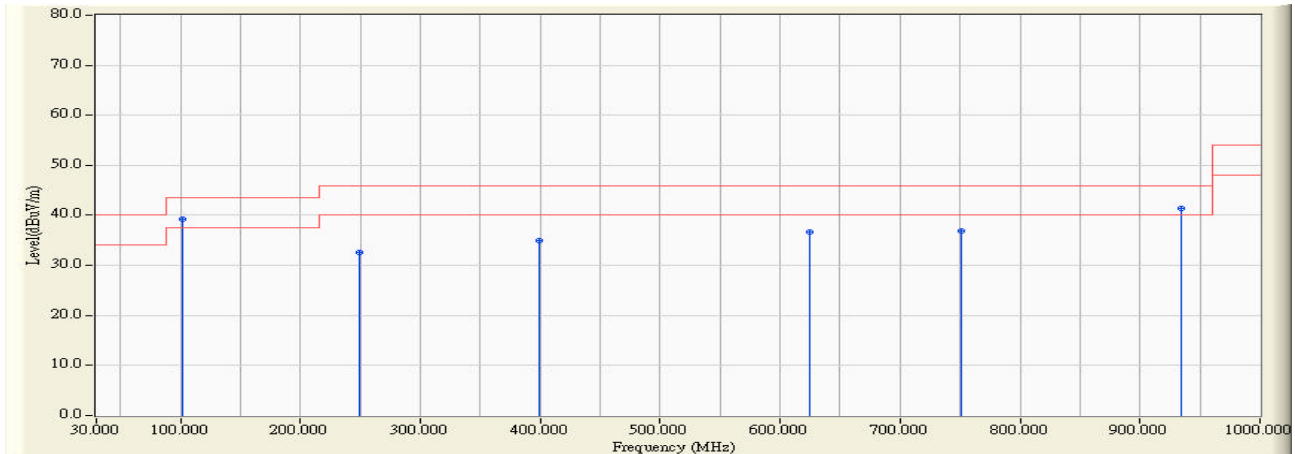


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	98.036	-8.660	46.545	37.884	-5.616	43.500	QUASIPeAK
2	354.629	-5.077	45.870	40.793	-5.207	46.000	QUASIPeAK
3	432.385	1.904	37.956	39.860	-6.140	46.000	QUASIPeAK
4	* 624.830	1.779	41.725	43.504	-2.496	46.000	QUASIPeAK
5	751.182	3.516	39.084	42.600	-3.400	46.000	QUASIPeAK
6	933.908	3.903	34.572	38.475	-7.525	46.000	QUASIPeAK

Note:

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

Site : Site 1	Time : 2007/09/30 - 15:50
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Wireless ADSL2+ Router	Probe : FCC_RF_30-1G(200605) - VERTICAL
Power : AC120V/ 60Hz	Note : Mode 1: Transmit-B

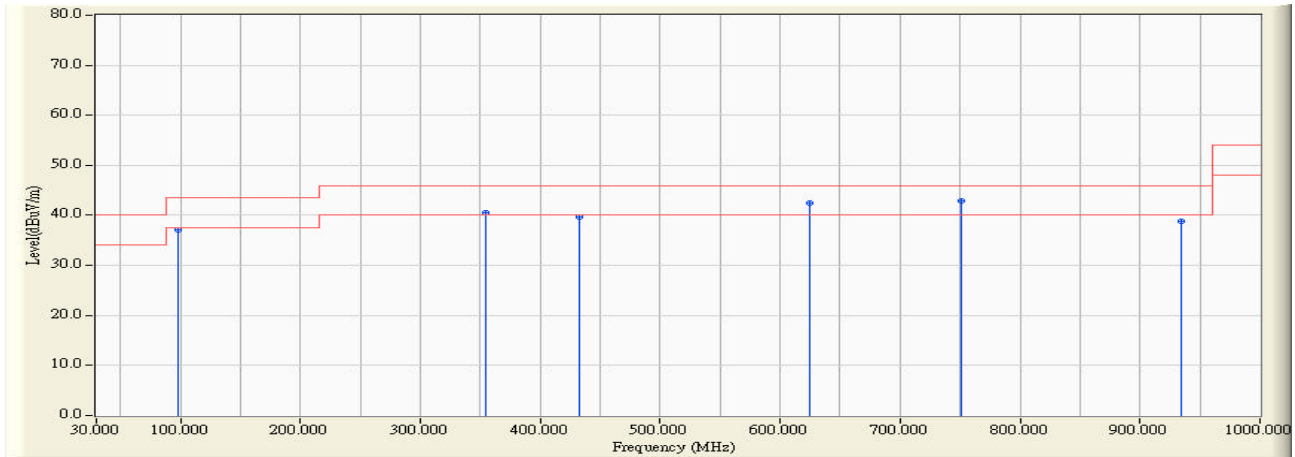


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	101.924	-1.274	40.553	39.279	-4.221	43.500	QUASPEAK
2		249.659	-7.861	40.362	32.502	-13.498	46.000	QUASPEAK
3		399.339	-0.493	35.436	34.944	-11.056	46.000	QUASPEAK
4		624.830	0.623	36.032	36.655	-9.345	46.000	QUASPEAK
5		751.182	1.935	34.944	36.879	-9.121	46.000	QUASPEAK
6		933.908	7.251	34.180	41.431	-4.569	46.000	QUASPEAK

Note:

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

Site : Site 1	Time : 2007/09/30 - 15:51
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Wireless ADSL2+ Router	Probe : FCC_RF_30-1G(200605) - HORIZONTAL
Power : AC120V/ 60Hz	Note : Mode 1: Transmit-G

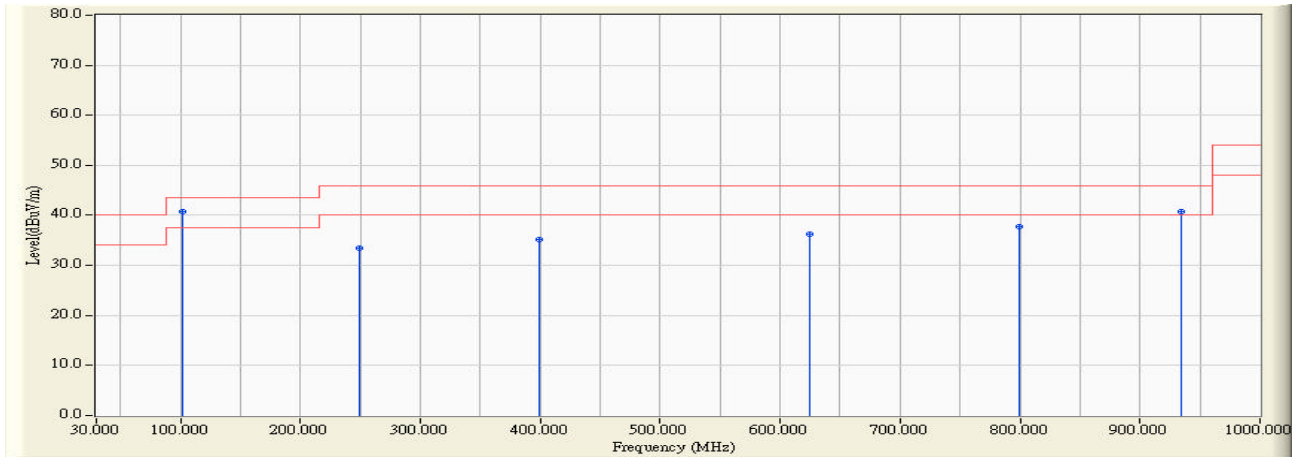


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	98.036	-8.660	45.789	37.128	-6.372	43.500	QUASPEAK
2	354.629	-5.077	45.563	40.486	-5.514	46.000	QUASPEAK
3	432.385	1.904	37.826	39.730	-6.270	46.000	QUASPEAK
4	624.830	1.779	40.696	42.475	-3.525	46.000	QUASPEAK
5	* 751.182	3.516	39.427	42.943	-3.057	46.000	QUASPEAK
6	933.908	3.903	34.840	38.743	-7.257	46.000	QUASPEAK

Note:

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

Site : Site 1	Time : 2007/09/30 - 15:52
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Wireless ADSL2+ Router	Probe : FCC_RF_30-1G(200605) - VERTICAL
Power : AC120V/ 60Hz	Note : Mode 1: Transmit-G



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	101.924	-1.274	41.983	40.709	-2.791	43.500	QUASPEAK
2		249.659	-7.861	41.340	33.480	-12.520	46.000	QUASPEAK
3		399.339	-0.493	35.613	35.121	-10.879	46.000	QUASPEAK
4		624.830	0.623	35.556	36.179	-9.821	46.000	QUASPEAK
5		799.780	4.910	32.910	37.821	-8.179	46.000	QUASPEAK
6		933.908	7.251	33.478	40.729	-5.271	46.000	QUASPEAK

Note:

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