

Neutron Engineering Inc.

EMC TEST Report

FCC ID: P27IP806GAV3

This report concerns (check one) : Criginal Grant Class II Change

Issued Date : Jun. 09, 2006

Report No.: 0605067

Equipment : ADSL Wireless Broadband Router witn 4-Port Switch Model No.: IP806GA V3

Applicant: SerComm Corporation

Address: 8F, No. 3-1, YuanQu St., Nankang, Taipei 115, Taiwan, R.O.C.

Tested by:

Neutron Engineering Inc. EMC Laboratory **Data of Test:** May 18, 2006 ~ Jun. 01, 2006

Testing Engineer

Technical Manager

Authorized Signatory

NEUTRON ENGINEERING INC.

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Report No.: NEI-FCCP-1-0605067



Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A**.

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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.





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1. CERTIFICATION

Equipment: ADSL Wireless Broadband Router with 4-Port Switch Trade Name: Sercomm Model No.: IP806GA V3 Applicant: SerComm Corporation Data of Test: May 18, 2006 ~ Jun. 01, 2006 Test Item: ENGINEERING SAMPLE Standards: FCC Part15, Subpart C / RSS-210: 2004/ ANCI C63.4 : 2003

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-0605067) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and CNLA according to the ISO-17025 quality assessment standard and technical standard(s).



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

	FCC Part15, Subpart C					
Standard Section	Test Item	Judgment	Remark			
15.207	Conducted Emission	PASS				
15.247 (c)	Antenna conducted Spurious Emission	PASS				
15.247 (a)(2)	6dB Bandwidth	PASS				
15.247 (b)	Peak Output Power	PASS				
15.247 (c)	Radiated Spurious Emission	PASS				
15.247 (d)	Power Spectral Density	PASS				
15.203	Antenna Requirement	PASS				
1.1307 1.1310 2.1091 2.1093	RF Exposure Compliance	PASS				

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report



2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **C01/OS02** at the location of No.132-1, Lane 329, Sec. 2, Palain Road, Shijr City, Taipei, Taiwan.

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y \pm U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately 95 % \circ

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
C01	ANSI	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	NOTE	
OS-01	ANSI	30MHz ~ 200MHz	V	3.82		
		30MHz ~ 200MHz	Н	3.60		
		200MHz ~ 1,000MHz	V	3.86		
		200MHz ~ 1,000MHz	Н	3.94		
OS-02	ANSI	30MHz ~ 200MHz	V	2.48		
		30MHz ~ 200MHz	Н	2.16		
		200MHz ~ 1,000MHz	V	2.50		
		200MHz ~ 1,000MHz	Н	2.66		



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	ADSL Wireless Broadband Router witn 4-Port Switch			
Trade Name	Sercomm			
Model No.	IP806GA V3			
Product Description	details of EUT technical User's Manual.	2400~2483.5 MHz CCK, DQPSK, DBPSK, OFDM 802.11b:11Mbps 802.11g: 54Mbps 11 CH Diope Antenna 2 dBi 19.29 dBm (Max.) as an ITE/Computing Device. More specification, please refer to the		
Power Supply	DC Voltage supplied from AC/DC adapter. AC I/P 100-120V, 50/60Hz 0.3A / DC O/P 12V, 1A			
Connecting I/O Port(s)	Please refer to the User	's Manual		

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2. CH 01 CH 11 for 802.11b, 802.11g

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

3. The sample tested including the following sub-system/module/accessory:

Sub-system	Brand / Model No.
Power Adaptor	DVE / DSR-12R-10 AUS
	OEM / ADS18B-W 120100

All the above power adapters were tested, and the model: DSR-12R-10 AUS, was found to be the worst case during the pr-scanning test. This power adapter of the worst case was used for final testing and collecting test data included in this report.

4. The antenna has two different connectors; one is fixed on the enclosure and the other is removable. But the removable one is not standard. It is reversed in polarity and if users want to use the standard connector is not allowed.

All the above modes were tested, and the removable mode was found to be the worst case during the pr-scanning test. This mode of the worst case was used for final testing and collecting test data included in this report.



3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Test Mode	Description
Mode 1	CH01
Mode 2	CH06
Mode 3	CH11

For Conducted / Radiated Test					
Final Test Mode	Description				
Mode 1	CH01				
Mode 2	CH06				
Mode 3	CH11				



3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

E-1 EUT



3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	ADSL Wireless Broadband Router witn 4-Port Switch	Sercomm	IP806GA V3	P27IP806GAV3	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
N/A				

Note:

(1) The support equipment was authorized by Declaration of Confirmation.

(2) For detachable type I/O cable should be specified the length in cm in ^[]Length ^[] column.



4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A	(dBuV)	Class B	(dBuV)	Standard
	Quasi-peak	Average	Quasi-peak	Average	Stanuaru
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	Rolf Heine	NNB-2/16Z	98053	Dec. 19, 2006
2	Pulse Limiter	ulse Limiter Electro-Metrics		112644	Nov. 29, 2006
3	Test Cable	N/A	C01	N/A	Nov. 29, 2006
4	EMI Test Receiver	R&S	ESCI	100082	Feb. 01, 2007

Remark: " N/A" denotes No Model No., Serial No. or No Calibration specified.



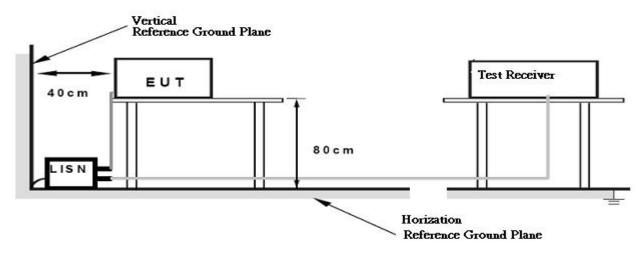


4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP





4.1.6 EUT OPERATING CONDITIONS

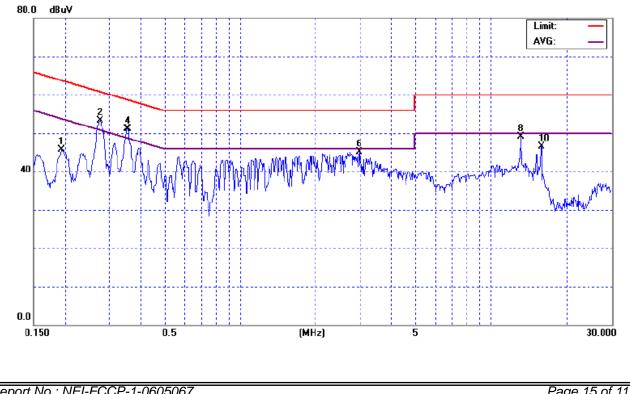
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



4.1.7 TEST RESULTS

EUT :			SL Wireless E uter witn 4-Po		Model No.	:	IP80	6GA V3	
Temperati	ure :	22 °C			Relative Hu	midity:	58 %	, D	
Pressure :		101	I4 hPa		Test Power	:	AC 1	20V/60Hz	
Test Mode	e :	802	2.11b/CH01						
Freq.	Termir	nal	Measure	d(dBuV)	Limits((dBuV)		Margin	Note
(MHz)	L/N		QP-Mode	AV-Mode	QP-Mode	AV-Mo	bde	(dB)	NULE
0.19	Line		45.68	*	63.89	53.8	9	-18.21	(QP)
0.27	Line		53.39	37.99	60.98	50.9	8	-7.59	(QP)
0.35	Line		51.11	37.11	58.87	48.8	7	-7.76	(QP)
2.97	Line	45.16		34.46	56.00	46.0	0	-10.84	(QP)
13.14	Line		49.04	37.14	60.00	50.0	0	-10.96	(QP)
15.82	Line		46.42	*	60.00	50.0	0	-13.58	(QP)

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz, VBW =10KHz, Swp. Time = 0.3 sec./MHz • Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz o
- (2) All readings are QP Mode value unless otherwise stated AVG in column of Note ... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform o In this case, a " * " marked in AVG Mode column of Interference Voltage Measured •
- (3) Measuring frequency range from 150KHz to 30MHz o

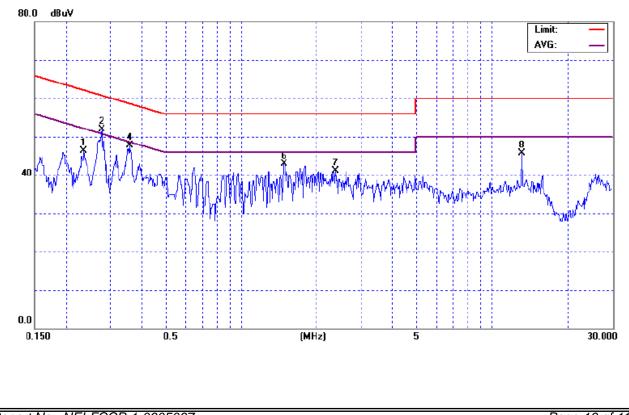






EUT :			SL Wireless E uter witn 4-Po		Model No.	:	IP80	6GA V3	
Temperatu	ure :	22 °C			Relative Hu	midity:	58 %)	
Pressure :		101	l4 hPa		Test Power	:	AC 1	20V/60Hz	
Test Mode	e :	802	2.11b/CH01						
Freq.	Termir	nal	Measure	d(dBuV)	Limits((dBuV)		Margin	Note
(MHz)	L/N		QP-Mode	AV-Mode	QP-Mode	AV-Mode		(dB)	NOLE
0.24	Neutr	al	46.37	*	62.27	52.2	7	-15.90	(QP)
0.28	Neutr	al	51.88	38.28	60.91	50.9	1	-9.03	(QP)
0.36	Neutr	al	47.70	36.70	58.80	48.8	0	-11.10	(QP)
1.48	Neutr	al	42.96	*	56.00	46.00		-13.04	(QP)
2.38	Neutr	al	41.13	*	56.00	46.0	0	-14.87	(QP)
13.14	Neutr	al	45.66	*	60.00	50.0	0	-14.34	(QP)

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz, VBW =10KHz, Swp. Time = 0.3 sec./MHz ∘ Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz, VBW=10Hz, Swp. Time =0.3 sec./MHz ∘
- (2) All readings are QP Mode value unless otherwise stated AVG in column of Note... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform ∘ In this case, a "*" marked in AVG Mode column of Interference Voltage Measured ∘
- (3) Measuring frequency range from 150KHz to 30MHz •

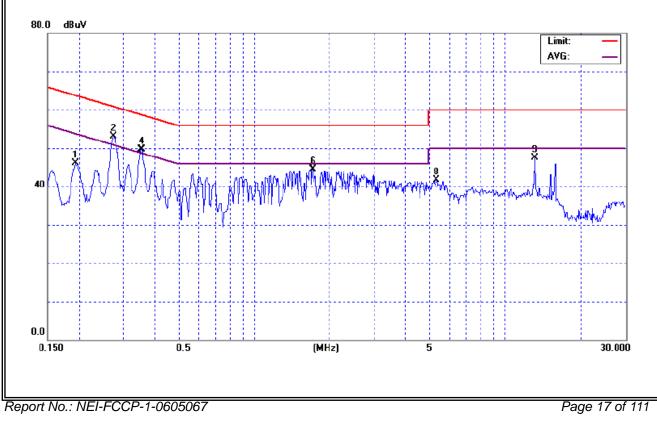


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EUT :		ADSL Wireless Broadband Router with 4-Port Switch			Model No.	:	IP80	P806GA V3		
Temperati	ature: 22 °C				Relative Hu	midity:	58 %	, 0		
Pressure :		101	l4 hPa		Test Power	:	AC 1	120V/60Hz		
Test Mode : 802.11b/CH06										
Freq.	Termir	inal Measured(dBuV)			Limits(Limits(dBuV)			Note	
(MHz)	L/N		QP-Mode	AV-Mode	QP-Mode	AV-Mo	ode	(dB)	NOLE	
0.19	Line		46.18	*	63.89	53.8	9	-17.71	(QP)	
0.27	Line		53.09	39.01	61.01	51.0	1	-7.92	(QP)	
0.35	Line		49.61	37.91	58.87	48.8	7	-9.26	(QP)	
1.71	Line	e 44.59		34.20	56.00	46.0	0	-11.41	(QP)	
5.32	Line	41.68		*	60.00	50.0	0	-18.32	(QP)	
13.14	Line		47.54	*	60.00	50.0	0	-12.46	(QP)	

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz;SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz ° Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz °
- (2) All readings are QP Mode value unless otherwise stated AVG in column of Note ... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform ∘ In this case, a "*" marked in AVG Mode column of Interference Voltage Measured ∘
- (3) Measuring frequency range from 150KHz to 30MHz \circ

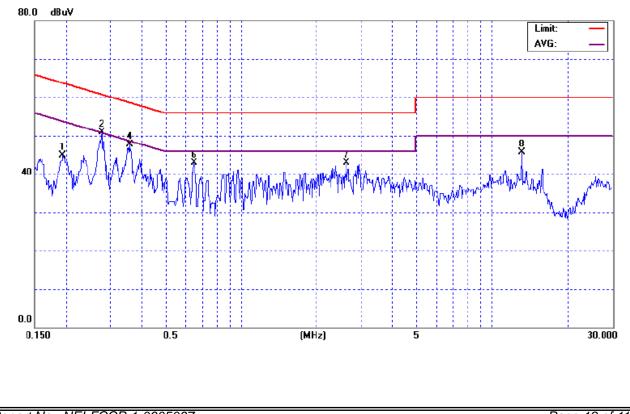






EUT :		ADSL Wireless Broadband Router with 4-Port Switch			Model No.	•	IP806G	SA V3	
Temperatu	ure :	22 ℃			Relative Hu	imidity:	58 %		
Pressure :		101	l4 hPa		Test Power	:	AC 120)V/60Hz	
Test Mode):	802	2.11b/CH06						
Freq.	Termir	nal	Measure	d(dBuV)	Limits((dBuV)		Margin	Note
(MHz)	L/N		QP-Mode	AV-Mode	QP-Mode	AV-Mo	ode	(dB)	NOIC
0.19	Neutr	al	44.97	*	63.84	53.8	4	-18.87	(QP)
0.28	Neutr	al	50.88	38.52	60.91	50.9	1	-10.03	(QP)
0.36	Neutr	al	47.70	35.68	58.80	48.8	0	-11.10	(QP)
0.65	Neutr	al	42.84	*	56.00	46.0	0	-13.16	(QP)
2.62	Neutr	al	42.94	*	56.00	46.0	0	-13.06	(QP)
13.14	Neutr	al	45.66	*	60.00	50.0	0	-14.34	(QP)

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz, VBW =10KHz, Swp. Time = 0.3 sec./MHz ∘ Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz, VBW=10Hz, Swp. Time =0.3 sec./MHz ∘
- (2) All readings are QP Mode value unless otherwise stated AVG in column of Note... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform ∘ In this case, a "*" marked in AVG Mode column of Interference Voltage Measured ∘
- (3) Measuring frequency range from 150KHz to 30MHz •

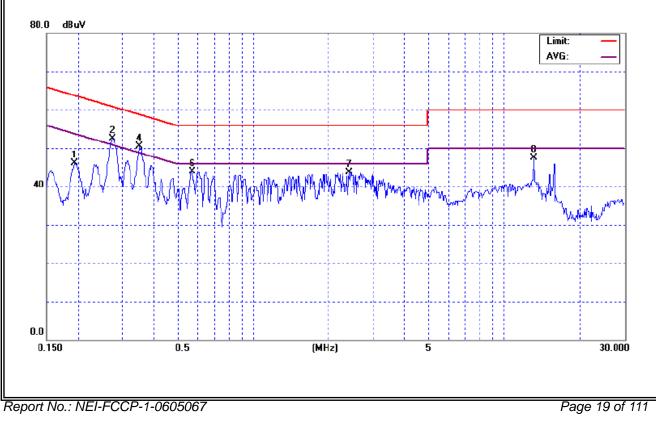


Report No.: NEI-FCCP-1-0605067



EUT :		ADSL Wireless Broadband Router witn 4-Port Switch			Model No.	:	IP80	6GA V3	
Temperati	ure :	22 ℃			Relative Hu	midity:	58 %	0	
Pressure :		101	l4 hPa		Test Power	:	AC 1	120V/60Hz	
Test Mode : 802.11b/CH11									
Freq.	Termir	nal	Measure	d(dBuV)	Limits((dBuV)		Margin	Note
(MHz)	L/N		QP-Mode	AV-Mode	QP-Mode	AV-Mo	bde	(dB)	NOLE
0.19	Line		46.18	*	63.89	53.8	9	-17.71	(QP)
0.27	Line		52.59	38.90	61.01	51.0	1	-8.42	(QP)
0.35	Line		50.41	37.61	58.93	48.9	3	-8.52	(QP)
0.57	Line		43.83	*	56.00	46.00		-12.17	(QP)
2.40	Line		43.64	*	56.00	46.0	0	-12.36	(QP)
13.14	Line		47.54	*	60.00	50.0	0	-12.46	(QP)

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz;SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz ° Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz °
- (2) All readings are QP Mode value unless otherwise stated AVG in column of Note ... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform ∘ In this case, a "*" marked in AVG Mode column of Interference Voltage Measured ∘
- (3) Measuring frequency range from 150KHz to 30MHz \circ

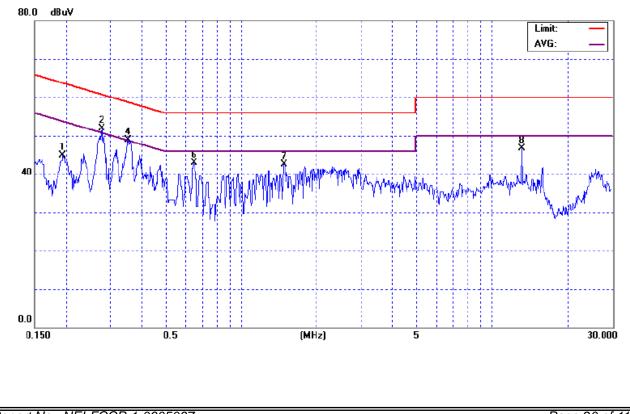






EUT :		ADSL Wireless Broadband Router with 4-Port Switch			Model No.	:	IP806		
Temperatu	ure :	22	°C	Relative Hu	midity:	58 %			
Pressure :		101	I4 hPa		Test Power	:	AC 12	20V/60Hz	
Test Mode	e :	802	2.11b/ CH11						
Freq.	Termir	nal	Measure	d(dBuV)	Limits((dBuV)		Margin	Note
(MHz)	L/N		QP-Mode	AV-Mode	QP-Mode	AV-Mo	ode	(dB)	NOLC
0.19	Neutr	al	44.97	*	63.84	53.8	4	-18.87	(QP)
0.28	Neutr	al	51.88	38.75	60.91	50.9	1	-9.03	(QP)
0.35	Neutr	al	48.90	36.55	58.88	48.8	8	-9.98	(QP)
0.65	Neutr	al	42.84	*	56.00	46.0	0	-13.16	(QP)
1.48	Neutr	al	42.46	*	56.00	46.0	0	-13.54	(QP)
13.14	Neutr	al	46.66	*	60.00	50.0	0	-13.34	(QP)

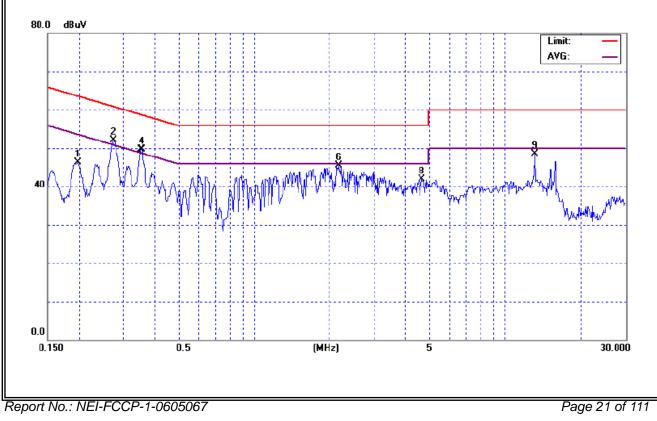
- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz, VBW =10KHz, Swp. Time = 0.3 sec./MHz ∘ Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz, VBW=10Hz, Swp. Time =0.3 sec./MHz ∘
- (2) All readings are QP Mode value unless otherwise stated AVG in column of Note... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform ∘ In this case, a "*" marked in AVG Mode column of Interference Voltage Measured ∘
- (3) Measuring frequency range from 150KHz to 30MHz •





EUT :	ADSL Wireless Broadband Router witn 4-Port Switch				Model No.	:	IP80	6GA V3	
Temperati	rature: 22 °C				Relative Hu	midity:	58 %	/ 0	
Pressure :		101	l4 hPa		Test Power	:	AC 1	120V/60Hz	
Test Mode	e :	2.11g/CH01							
Freq.	Termir	nal	Measure	d(dBuV)	Limits((dBuV)		Margin	Note
(MHz)	L/N		QP-Mode	AV-Mode	QP-Mode	AV-Mo	ode	(dB)	NOLE
0.20	Line		46.38	*	63.69	53.6	9	-17.31	(QP)
0.27	Line		52.09	39.84	61.01	51.0	1	-8.92	(QP)
0.35	Line		49.61	38.01	58.87	48.8	7	-9.26	(QP)
2.17	Line		45.53	35.53	56.00	46.00		-10.47	(AV)
4.63	Line		41.84	*	56.00	46.0	0	-14.16	(QP)
13.14	Line		48.54	38.29	60.00	50.0	0	-11.46	(QP)

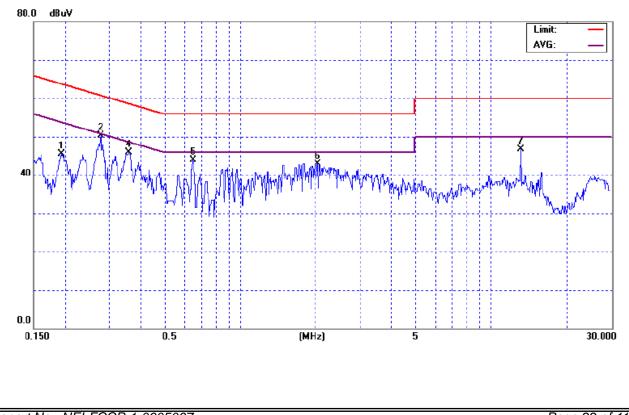
- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz;SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz ° Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz °
- (2) All readings are QP Mode value unless otherwise stated AVG in column of Note ... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform ∘ In this case, a "*" marked in AVG Mode column of Interference Voltage Measured ∘
- (3) Measuring frequency range from 150KHz to 30MHz \circ





EUT :		ADSL Wireless Broadband Router with 4-Port Switch			Model No.	:	IP80	6GA V3	
Temperatu	ure :	22 ℃			Relative Hu	midity:	58 %	/ 0	
Pressure :		101	l4 hPa		Test Power	:	AC 1	120V/60Hz	
Test Mode	e :	802	2.11g/CH01						
Freq.	Termir	nal	Measure	d(dBuV)	Limits((dBuV)		Margin	Note
(MHz)	L/N		QP-Mode	AV-Mode	QP-Mode	AV-Mo	ode	(dB)	NOLE
0.19	Neutra	al	45.47	*	63.84	53.8	4	-18.37	(QP)
0.28	Neutra	al	50.38	38.92	60.91	50.9	1	-10.53	(QP)
0.36	Neutra	al	45.90	*	58.76	48.7	6	-12.86	(QP)
0.65	Neutra	al	43.84	*	56.00	46.0	0	-12.16	(QP)
2.03	Neutra	al	42.91	*	56.00	46.0	0	-13.09	(QP)
13.14	Neutra	al	46.66	*	60.00	50.0	0	-13.34	(QP)

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz, VBW =10KHz, Swp. Time = 0.3 sec./MHz ∘ Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz, VBW=10Hz, Swp. Time =0.3 sec./MHz ∘
- (2) All readings are QP Mode value unless otherwise stated AVG in column of Note... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform ∘ In this case, a "*" marked in AVG Mode column of Interference Voltage Measured ∘
- (3) Measuring frequency range from 150KHz to 30MHz •

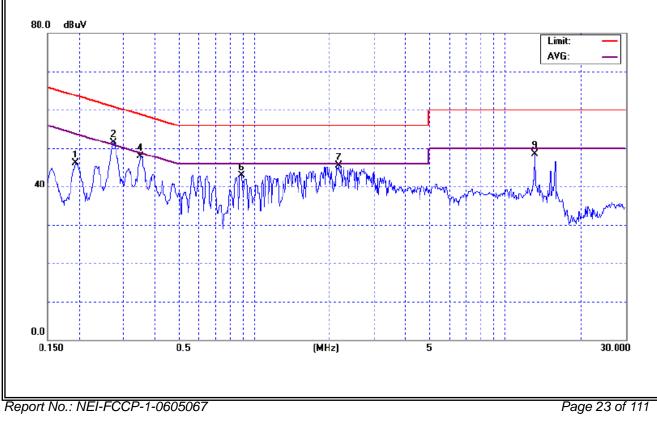


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EUT :		ADSL Wireless Broadband Router with 4-Port Switch			Model No. : IF			IP806GA V3		
Temperati	Ire : 22 ℃			Relative Hu	midity:	58 %	/ 0			
Pressure :		101	I4 hPa		Test Power	:	AC 1	120V/60Hz		
Test Mode	Test Mode : 802.11g/CH06									
Freq.	Termir	nal	Measure	d(dBuV)	Limits((dBuV)		Margin	Note	
(MHz)	L/N		QP-Mode	AV-Mode	QP-Mode	AV-Mode		(dB)	NOLE	
0.19	Line		46.18	*	63.89	53.8	9	-17.71	(QP)	
0.27	Line		51.59	38.68	61.01	51.0	1	-9.42	(QP)	
0.35	Line		47.91	37.41	58.93	48.9	3	-11.02	(QP)	
0.89	Line		42.90	*	56.00	46.00		-13.10	(QP)	
2.17	Line		45.53	35.79	56.00	46.0	0	-10.21	(AV)	
13.14	Line		48.54	38.30	60.00	50.0	0	-11.46	(QP)	

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz;SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz ° Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz °
- (2) All readings are QP Mode value unless otherwise stated AVG in column of Note ... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform ∘ In this case, a "*" marked in AVG Mode column of Interference Voltage Measured ∘
- (3) Measuring frequency range from 150KHz to 30MHz \circ

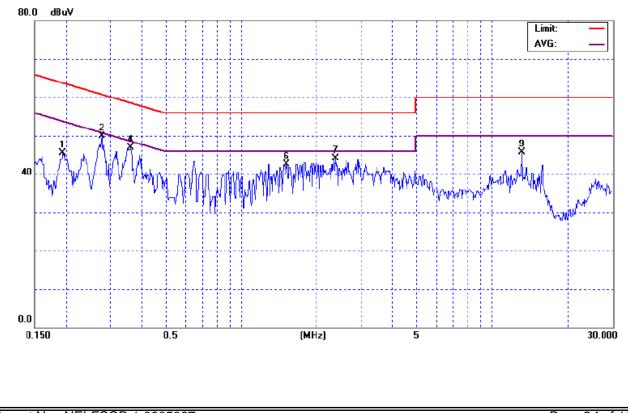






EUT :		ADSL Wireless Broadband Router witn 4-Port Switch		Model No.	Model No. : IP806GA V3			
Temperatu	ure :	22	°C		Relative Hu	midity:	58 %	
Pressure :		101	l4 hPa		Test Power	:	: AC 120V/60Hz	
Test Mode):	802	2.11g/CH06				•	
Freq.	Termir	nal	Measure	d(dBuV)	Limits((dBuV)	Margin	Note
(MHz)	L/N		QP-Mode	AV-Mode	QP-Mode	AV-Mo	ode (dB)	NOLE
0.19	Neutr	al	45.47	*	63.84	53.8	4 -18.37	(QP)
0.28	Neutr	al	49.88	38.58	60.91	50.9	1 -11.03	(QP)
0.36	Neutr	al	47.00	37.54	58.71	48.7	1 -11.17	(AV)
1.52	Neutr	al	42.47	*	56.00	46.0	0 -13.53	(QP)
2.38	Neutr	al	44.13	34.78	56.00	46.0	0 -11.22	(AV)
13.14	Neutr	al	45.66	*	60.00	50.0	0 -14.34	(QP)

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz, VBW =10KHz, Swp. Time = 0.3 sec./MHz ∘ Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz, VBW=10Hz, Swp. Time =0.3 sec./MHz ∘
- (2) All readings are QP Mode value unless otherwise stated AVG in column of Note... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform ∘ In this case, a "*" marked in AVG Mode column of Interference Voltage Measured ∘
- (3) Measuring frequency range from 150KHz to 30MHz •

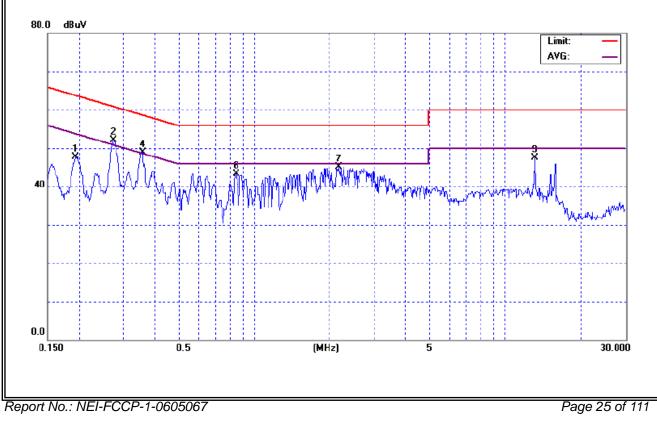


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EUT :			SL Wireless Broadband uter witn 4-Port Switch Model No. : IP806GA		6GA V3				
Temperati	ure :	22	°C		Relative Hu	midity:	58 %	, 0	
Pressure :		101	l4 hPa		Test Power	:	AC 1	120V/60Hz	
Test Mode	e :	802	2.11g/CH11						
Freq.	Termir	nal	Measure	d(dBuV)	Limits((dBuV)		Margin	Note
(MHz)	L/N		QP-Mode	AV-Mode	QP-Mode	AV-Mo	bde	(dB)	NOLE
0.19	Line		47.68	*	63.89	53.8	9	-16.21	(QP)
0.27	Line		52.09	38.94	61.01	51.0	1	-8.92	(QP)
0.36	Line		48.81	37.81	58.82	48.8	2	-10.01	(QP)
0.85	Line		43.39	*	56.00	46.0	0	-12.61	(QP)
2.17	Line		45.03	34.86	56.00	46.0	0	-10.97	(QP)
13.14	Line		47.54	*	60.00	50.0	0	-12.46	(QP)

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz;SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz ° Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz °
- (2) All readings are QP Mode value unless otherwise stated AVG in column of Note ... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform ∘ In this case, a "*" marked in AVG Mode column of Interference Voltage Measured ∘
- (3) Measuring frequency range from 150KHz to 30MHz \circ

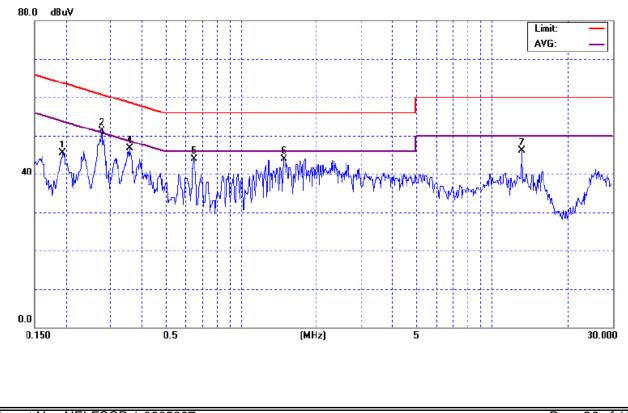






EUT :		ADSL Wireless Broadband Router witn 4-Port Switch		Model No.	Model No. : IP806GA		6GA V3		
Temperati	ure :	22	°C		Relative Hu	midity:	58 %	þ	
Pressure :		101	l4 hPa		Test Power	:	AC 1	20V/60Hz	
Test Mode	e :	802	2.11g/CH11						
Freq.	Termir	nal	Measure	d(dBuV)	Limits((dBuV)		Margin	Note
(MHz)	L/N		QP-Mode	AV-Mode	QP-Mode	AV-Mo	ode	(dB)	NOLE
0.19	Neutr	al	45.47	*	63.84	53.8	4	-18.37	(QP)
0.28	Neutr	al	51.38	37.95	60.91	50.9	1	-9.53	(QP)
0.36	Neutr	al	46.70	*	58.80	48.8	0	-12.10	(QP)
0.65	Neutr	al	43.84	*	56.00	46.0	0	-12.16	(QP)
1.48	Neutr	al	43.96	*	56.00	46.0	0	-12.04	(QP)
13.14	Neutr	al	46.16	*	60.00	50.0	0	-13.84	(QP)

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz, VBW =10KHz, Swp. Time = 0.3 sec./MHz ∘ Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz, VBW=10Hz, Swp. Time =0.3 sec./MHz ∘
- (2) All readings are QP Mode value unless otherwise stated AVG in column of Note... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform ∘ In this case, a "*" marked in AVG Mode column of Interference Voltage Measured ∘
- (3) Measuring frequency range from 150KHz to 30MHz •



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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 30MHz-1000MHz)

FREQUENCY (MHz)	Class A	(dBuV)	Class B	(dBuV)	Standard	
FREQUENCT (MILZ)	10m	30m	10m	3m	Stanuaru	
30.00 -230.00	40.00	30.00	30.00	40.00	CISPR	
230.0 -1000.0	47.00	37.00	37.00	47.00	CISPR	
30.00 - 88.00	39.00	N/A	30.00	40.00	FCC	
88.00 - 216.0	43.50	N/A	33.50	43.50	FCC	
216.0 -960.0	46.00	N/A	36.00	46.00	FCC	
above 960.0	49.50	N/A	46.00	54.00	FCC	

Note:

(1) The tighter limit applies at the band edges.

(2) Emission level (dBuV/m)=20log Emission level (uV/m).

(3) A measuring distance of 10m is a primary used. However, either 3m or 10m (instead of 10m) distance my be allowed. If the distance is 3m, add 10dB to the QP-limit above. If the distance is 10m, subtract 10dB from the QP-limit above.

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBu	ıV/m) (at 3m)	Class B (dBuV/m) (at 3m)		
	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80	60	74	54	

Notes:

(1) The limit for radiated test was performed according to FCC PART 15B.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower



4.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Jan. 09, 2007
2	Horn Antenna	Schwarzbeck	BBHA 9120D	D325	Oct. 26, 2006
3	Microwave Pre_amplifier	Agilent	8449B	3008A01714	Mar. 15, 2007
4	Microflex Cable	United Microwave	57793	1m	Mar. 11, 2007
5	Microflex Cable	United Microwave	A30A30-500 6	10M	Jul. 09, 2006

Remark: " N/A" denotes No Model No. / Serial No. and No Calibration specified.

4.2.3 TEST PROCEDURE

- a. The measuring distance of at 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m or 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

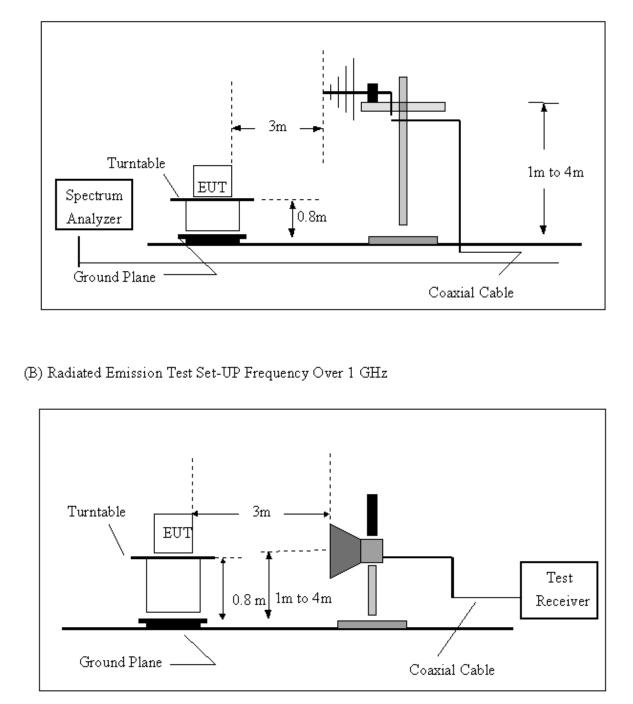
4.2.4 DEVIATION FROM TEST STANDARD

No deviation



4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

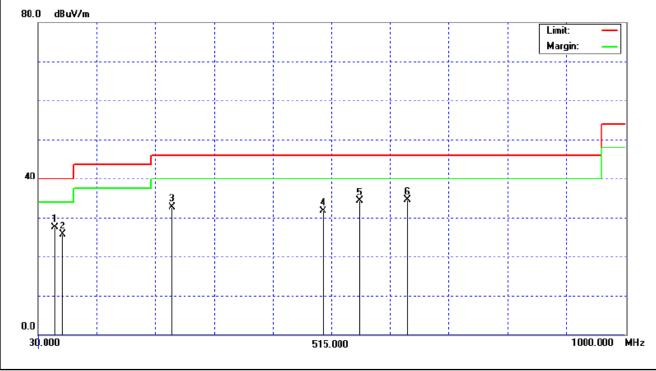


4.2.7 TEST RESULTS (Between 30 – 1000 MHz)

	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	28 ℃	Relative Humidity:	74 %
Pressure :	1018 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11b/CH01		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOIC
56.70	V	44.49	-17.04	27.45	40.00	- 12.55	
70.27	V	44.43	-18.82	25.61	40.00	- 14.39	
250.02	V	48.51	-15.88	32.63	46.00	- 13.37	
500.02	V	41.01	-9.30	31.71	46.00	- 14.29	
560.00	V	42.45	-8.24	34.21	46.00	- 11.79	
640.00	V	41.42	-6.88	34.54	46.00	- 11.46	

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency o "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission •
- (5) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

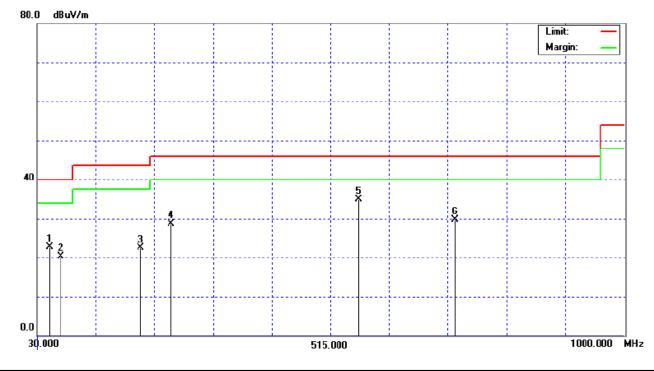




	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	28 ℃	Relative Humidity:	74 %
Pressure :	1018 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11b/CH01		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
51.04	Н	39.21	-16.59	22.62	40.00	- 17.38	
67.48	Н	38.59	-18.38	20.21	40.00	- 19.79	
199.56	Н	40.24	-17.82	22.42	43.50	- 21.08	
250.01	Н	44.60	-15.88	28.72	46.00	- 17.28	
560.00	Н	43.17	-8.24	34.93	46.00	- 11.07	
719.80	Н	34.91	-5.19	29.72	46.00	- 16.28	

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of <code>"Note_"</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ° "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission •
- (5) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

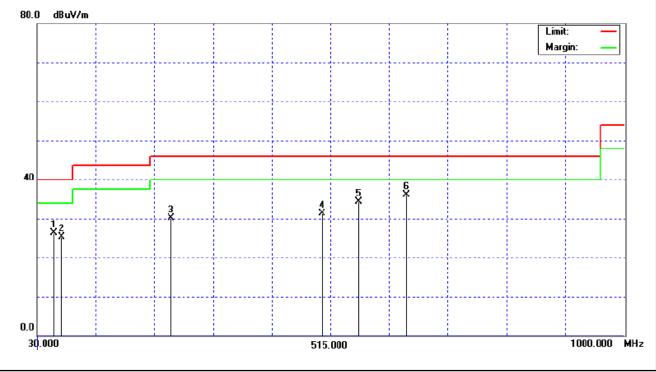




	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	28 ℃	Relative Humidity:	74 %
Pressure :	1018 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11b/CH06		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
56.71	V	43.33	-17.04	26.29	40.00	- 13.71	
70.26	V	44.09	-18.82	25.27	40.00	- 14.73	
250.10	V	46.00	-15.88	30.12	46.00	- 15.88	
500.05	V	40.52	-9.30	31.22	46.00	- 14.78	
560.01	V	42.60	-8.24	34.36	46.00	- 11.64	
640.01	V	43.00	-6.88	36.12	46.00	- 9.88	

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ° "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission •
- (5) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

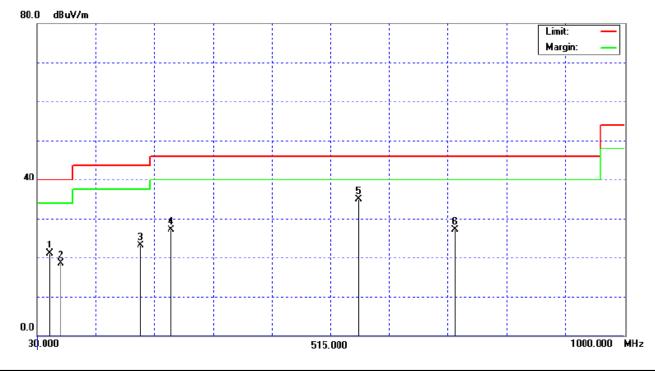




	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	28 ℃	Relative Humidity:	74 %
Pressure :	1018 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11b/CH06		

				-			
Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
51.04	Н	37.65	-16.59	21.06	40.00	- 18.94	
67.44	Н	36.80	-18.37	18.43	40.00	- 21.57	
199.51	Н	40.86	-17.82	23.04	43.50	- 20.46	
250.01	Н	43.00	-15.88	27.12	46.00	- 18.88	
560.12	Н	43.05	-8.24	34.81	46.00	- 11.19	
719.86	Н	32.30	-5.19	27.11	46.00	- 18.89	

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ° "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

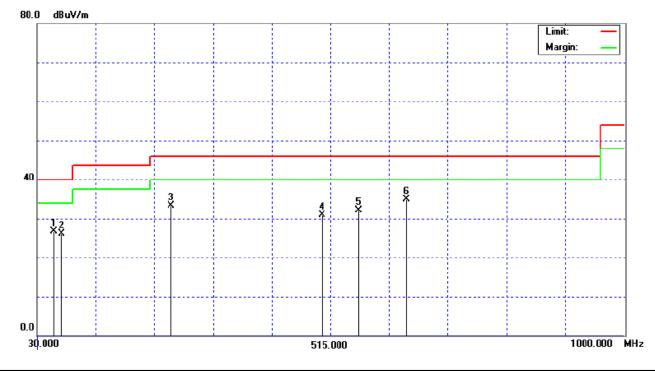




	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	28 ℃	Relative Humidity:	74 %
Pressure :	1018 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11b/CH11		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
56.68	V	43.80	-17.04	26.76	40.00	- 13.24	
70.28	V	45.00	-18.82	26.18	40.00	- 13.82	
250.14	V	49.10	-15.88	33.22	46.00	- 12.78	
500.00	V	40.23	-9.30	30.93	46.00	- 15.07	
560.14	V	40.40	-8.24	32.16	46.00	- 13.84	
640.06	V	41.85	-6.88	34.97	46.00	- 11.03	

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of <code>"Note_"</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ° "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission •
- (5) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

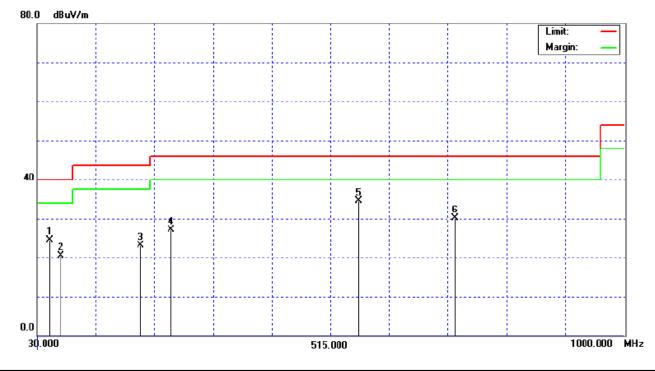




	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	28 ℃	Relative Humidity:	74 %
Pressure :	1018 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11b/CH11		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
51.09	Н	41.20	-16.60	24.60	40.00	- 15.40	
67.48	Н	38.94	-18.38	20.56	40.00	- 19.44	
199.72	Н	41.00	-17.82	23.18	43.50	- 20.32	
250.02	Н	43.00	-15.88	27.12	46.00	- 18.88	
560.10	Н	42.71	-8.24	34.47	46.00	- 11.53	
719.94	Н	35.34	-5.19	30.15	46.00	- 15.85	

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ° "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

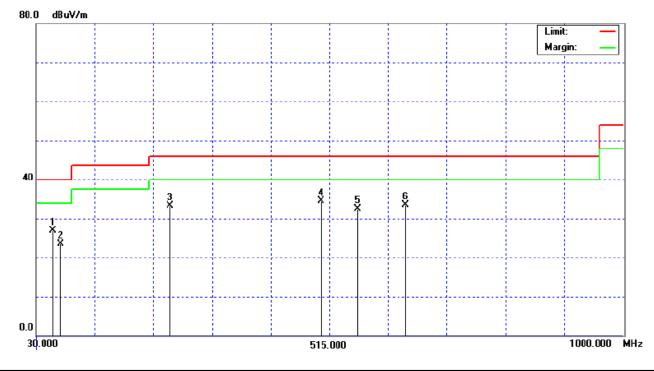




	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	28 ℃	Relative Humidity:	74 %
Pressure :	1018 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11g/CH01		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
56.67	V	44.03	-17.04	26.99	40.00	- 13.01	
70.29	V	42.42	-18.82	23.60	40.00	- 16.40	
250.01	V	49.10	-15.88	33.22	46.00	- 12.78	
500.01	V	43.80	-9.30	34.50	46.00	- 11.50	
560.01	V	40.77	-8.24	32.53	46.00	- 13.47	
640.03	V	40.31	-6.88	33.43	46.00	- 12.57	

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of <code>"Note_"</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ° "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

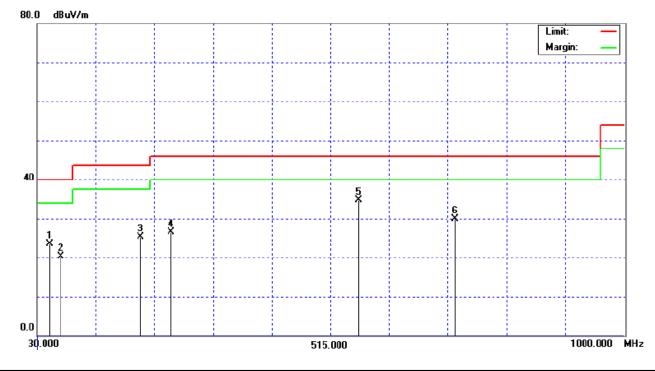




	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	28 ℃	Relative Humidity:	74 %
Pressure :	1018 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11g/CH01		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
51.13	Н	40.11	-16.60	23.51	40.00	- 16.49	
67.74	Н	38.75	-18.42	20.33	40.00	- 19.67	
199.50	Н	43.04	-17.82	25.22	43.50	- 18.28	
250.01	Н	42.30	-15.88	26.42	46.00	- 19.58	
560.01	Н	43.00	-8.24	34.76	46.00	- 11.24	
719.83	Н	35.10	-5.19	29.91	46.00	- 16.09	

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ° "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

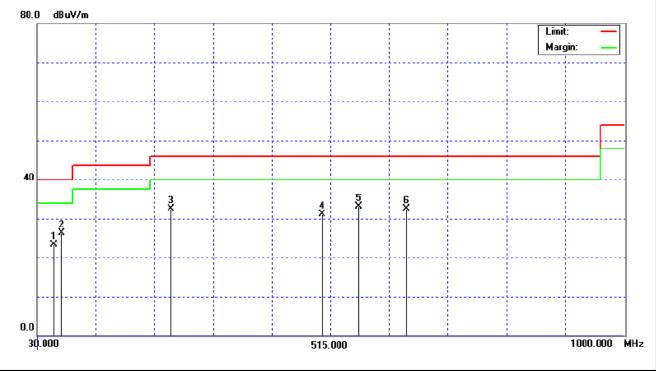




	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	28 ℃	Relative Humidity:	74 %
Pressure :	1018 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11g/CH06		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
56.83	V	40.40	-17.05	23.35	40.00	- 16.65	
70.29	V	45.20	-18.82	26.38	40.00	- 13.62	
250.10	V	48.34	-15.88	32.46	46.00	- 13.54	
500.04	V	40.40	-9.30	31.10	46.00	- 14.90	
560.01	V	41.30	-8.24	33.06	46.00	- 12.94	
640.00	V	39.48	-6.88	32.60	46.00	- 13.40	

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ° "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

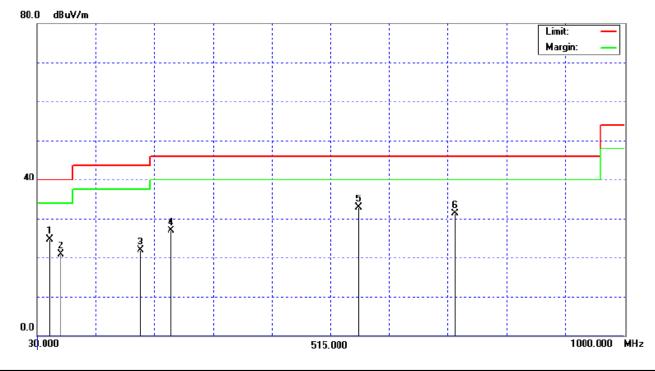




	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	28 ℃	Relative Humidity:	74 %
Pressure :	1018 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11g/CH06		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
51.20	Н	41.30	-16.60	24.70	40.00	- 15.30	
67.53	Н	39.30	-18.39	20.91	40.00	- 19.09	
199.94	Н	39.74	-17.82	21.92	43.50	- 21.58	
250.08	Н	42.70	-15.88	26.82	46.00	- 19.18	
560.01	Н	41.11	-8.24	32.87	46.00	- 13.13	
719.82	Н	36.54	-5.19	31.35	46.00	- 14.65	

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ° "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission •
- (5) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

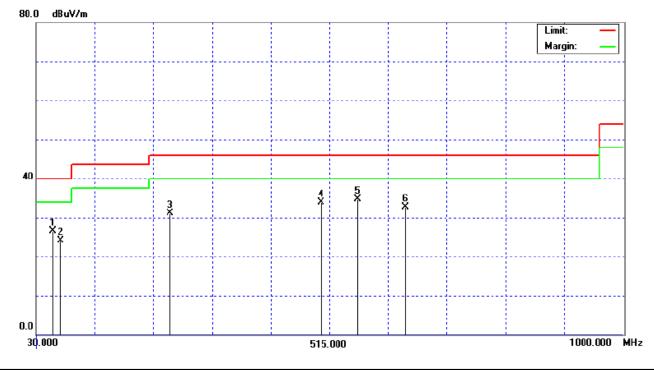




	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	28 ℃	Relative Humidity:	74 %
Pressure :	1018 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11g/CH11		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
56.75	V	43.50	-17.05	26.45	40.00	- 13.55	
70.70	V	42.98	-18.89	24.09	40.00	- 15.91	
250.10	V	47.00	-15.88	31.12	46.00	- 14.88	
500.00	V	43.12	-9.30	33.82	46.00	- 12.18	
560.00	V	43.00	-8.24	34.76	46.00	- 11.24	
640.13	V	39.64	-6.88	32.76	46.00	- 13.24	

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of <code>"Note_"</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ° "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission •
- (5) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

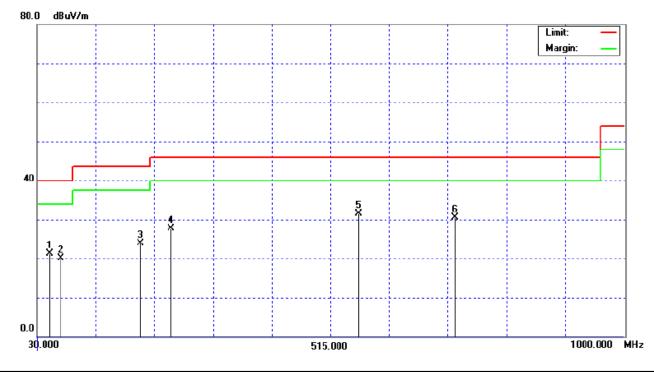




	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	28 ℃	Relative Humidity:	74 %
Pressure :	1018 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11g/CH11		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
51.13	Н	37.85	-16.60	21.25	40.00	- 18.75	
67.48	Н	38.40	-18.38	20.02	40.00	- 19.98	
199.52	Н	41.74	-17.82	23.92	43.50	- 19.58	
250.13	Н	43.60	-15.88	27.72	46.00	- 18.28	
560.09	Н	39.77	-8.24	31.53	46.00	- 14.47	
719.99	Н	35.60	-5.19	30.41	46.00	- 15.59	

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of <code>"Note_"</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ° "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission •
- (5) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.





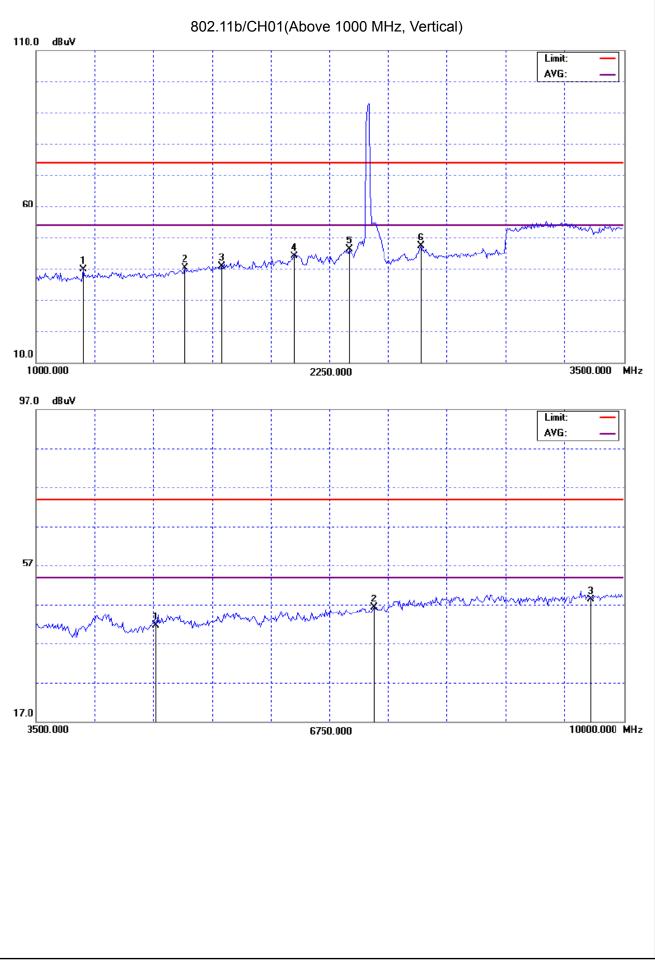
4.2.8 TEST RESULTS (Above 1000 MHz)

	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	23 ℃	Relative Humidity:	68 %
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11b/CH01		

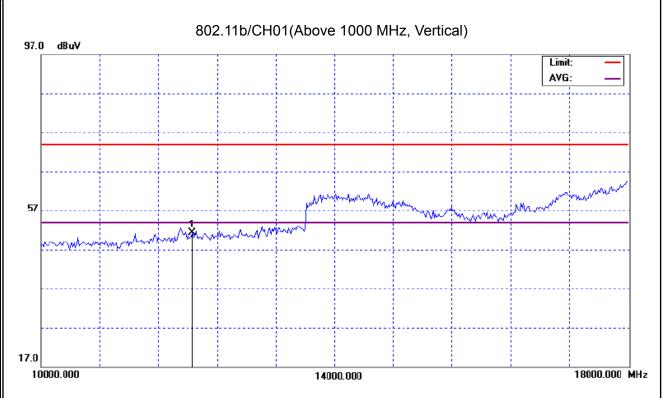
Freq.	Ant.Pol.	Reading		Ant./CF	A	Act.		Limit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
4824.00	V	36.90	*	4.75	41.65	*	74.00	54.00	X/H
7236.00	V	36.96	*	9.42	46.38	*	74.00	54.00	X/H
9648.00	V	36.05	*	12.29	48.34	*	74.00	54.00	X/H
12060.00	V	35.73	*	15.54	51.27	*	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency.
 "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (5) Data of measurement within this frequency range shown "*" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand









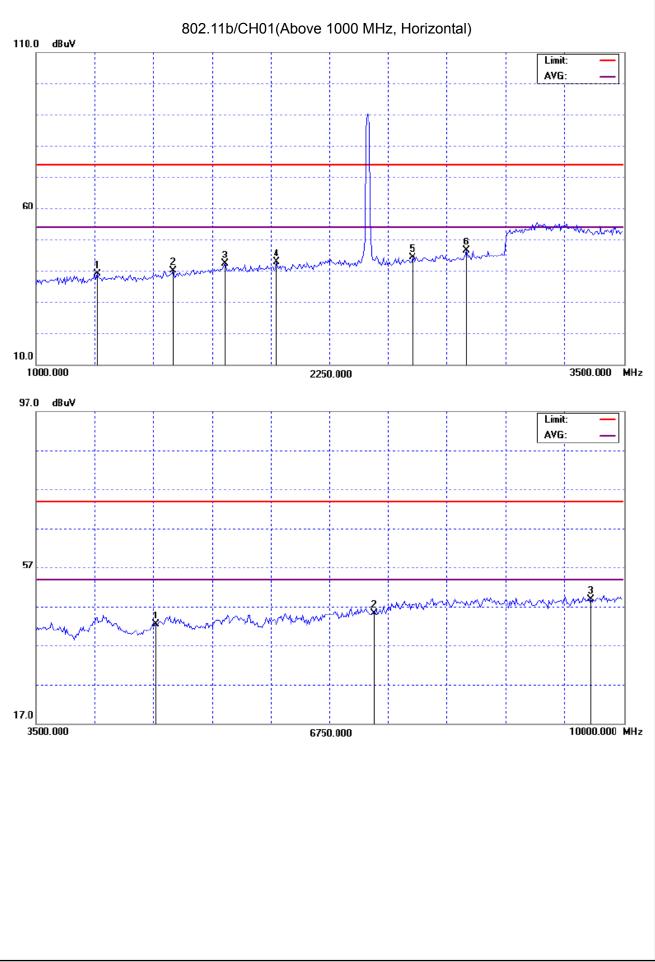


	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	23 ℃	Relative Humidity:	68 %
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11b/CH01		

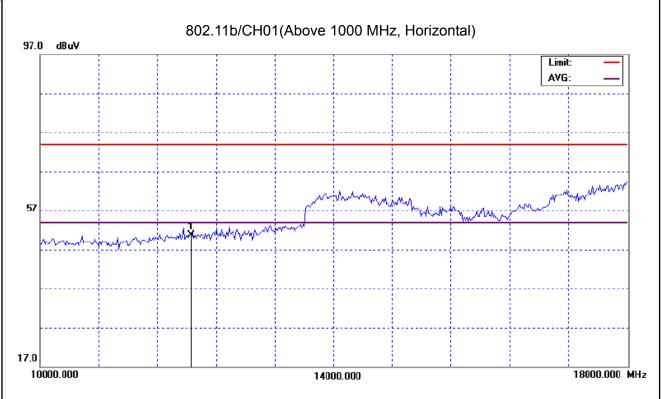
Freq.	Ant.Pol.	Reading		Ant./CF	A	Act.		Limit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
4824.00	Н	37.79	*	4.75	42.54	*	74.00	54.00	X/H
7236.00	Н	35.90	*	9.42	45.32	*	74.00	54.00	X/H
9648.00	Н	36.55	*	12.29	48.84	*	74.00	54.00	X/H
12060.00	Н	35.21	*	15.54	50.75	*	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency.
 "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown "*" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand











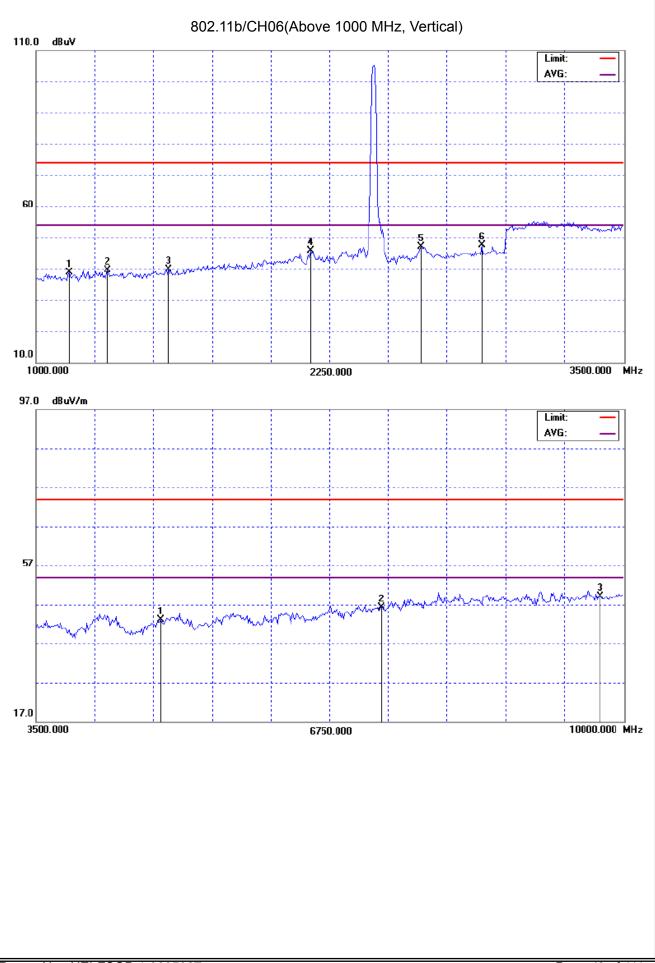
	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	23 ℃	Relative Humidity:	68 %
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11b/CH06		

Freq.	Ant.Pol.	Reading		Ant./CF	A	Act.		Limit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
4874.00	V	38.22	*	4.90	43.12	*	74.00	54.00	X/H
7311.00	V	36.46	*	9.76	46.22	*	74.00	54.00	X/H
9748.00	V	36.63	*	12.40	49.03	*	74.00	54.00	X/H
12185.00	V	34.50	*	15.58	50.08	*	74.00	54.00	X/H

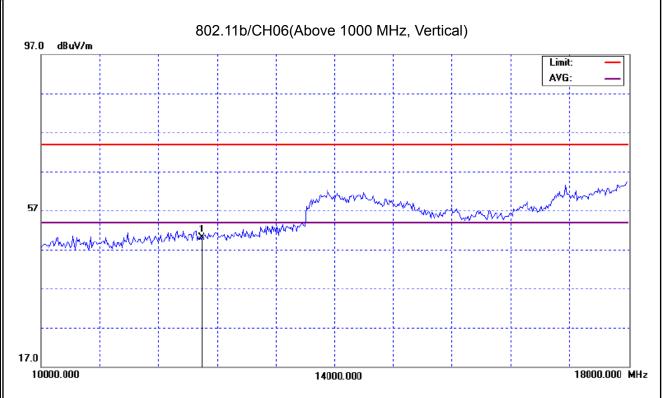
- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency.
 "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown "*" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand



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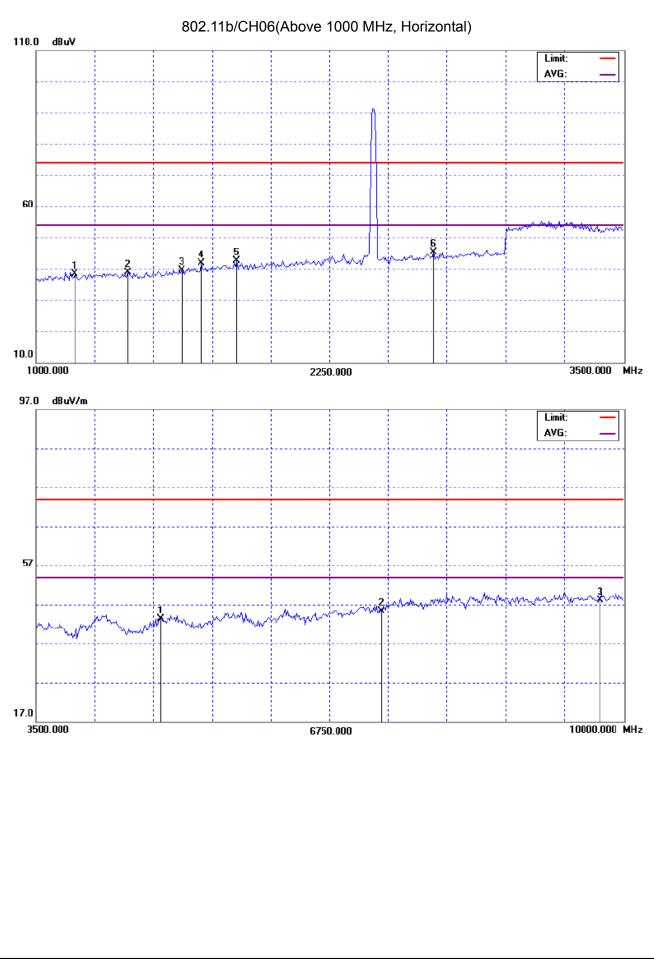


	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	23 ℃	Relative Humidity:	68 %
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11b/CH06		

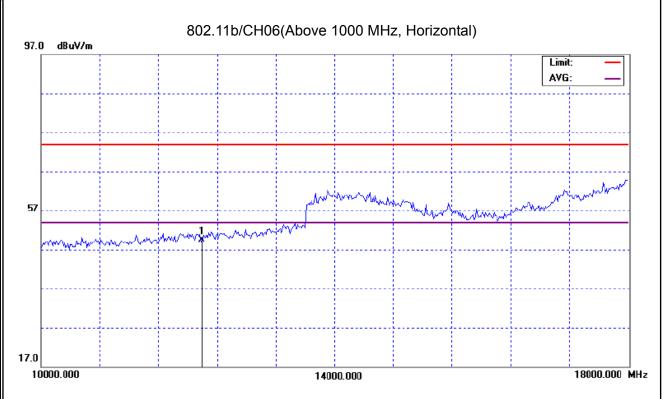
Freq.	Ant.Pol.	Reading		Ant./CF	A	Act.		Limit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
4874.00	Н	38.48	*	4.90	43.38	*	74.00	54.00	X/H
7311.00	Н	35.50	*	9.76	45.26	*	74.00	54.00	X/H
9748.00	Н	35.80	*	12.40	48.20	*	74.00	54.00	X/H
12185.00	Н	33.85	*	15.58	49.43	*	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency.
 "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown "*" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand









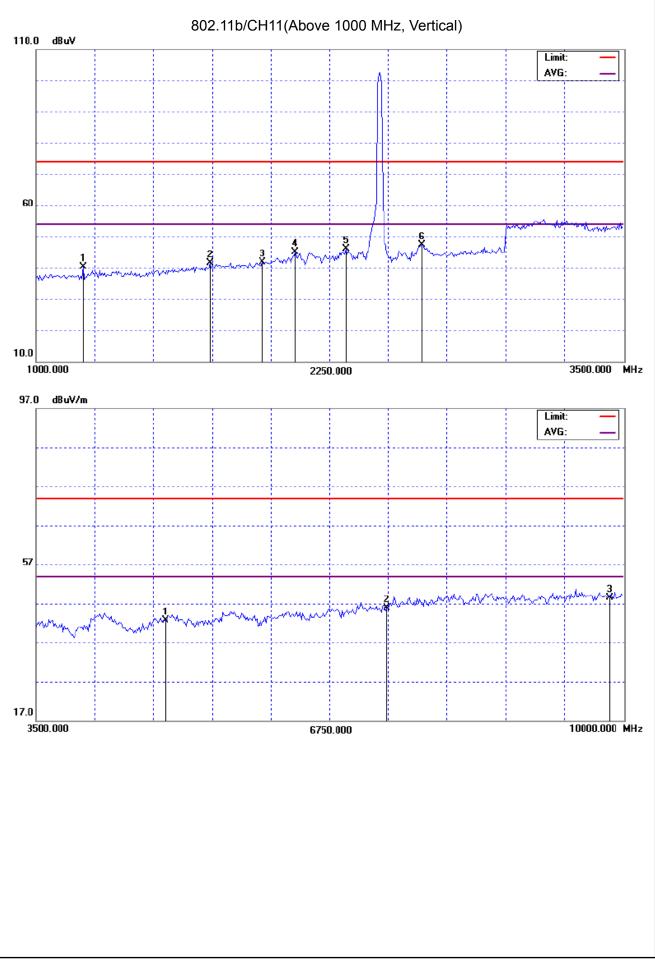


	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	23 ℃	Relative Humidity:	68 %
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11b/CH11		

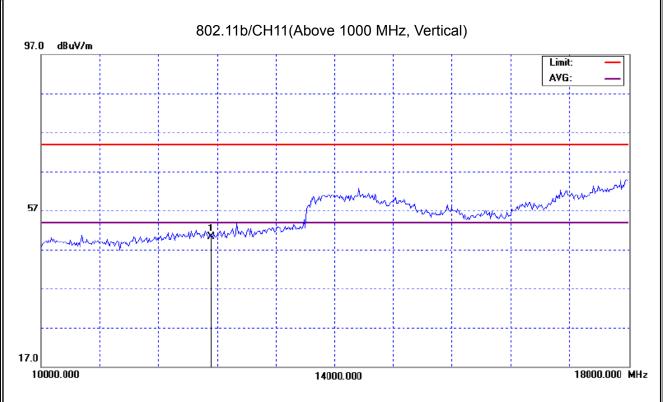
Freq.	Ant.Pol.	Reading		Ant./CF	A	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
4924.00	V	37.73	*	5.04	42.77	*	74.00	54.00	X/H	
7386.00	V	35.75	*	10.10	45.85	*	74.00	54.00	X/H	
9848.00	V	36.07	*	12.50	48.57	*	74.00	54.00	X/H	
12310.00	V	34.67	*	15.61	50.28	*	74.00	54.00	X/H	

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency.
 "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (5) Data of measurement within this frequency range shown "*" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand









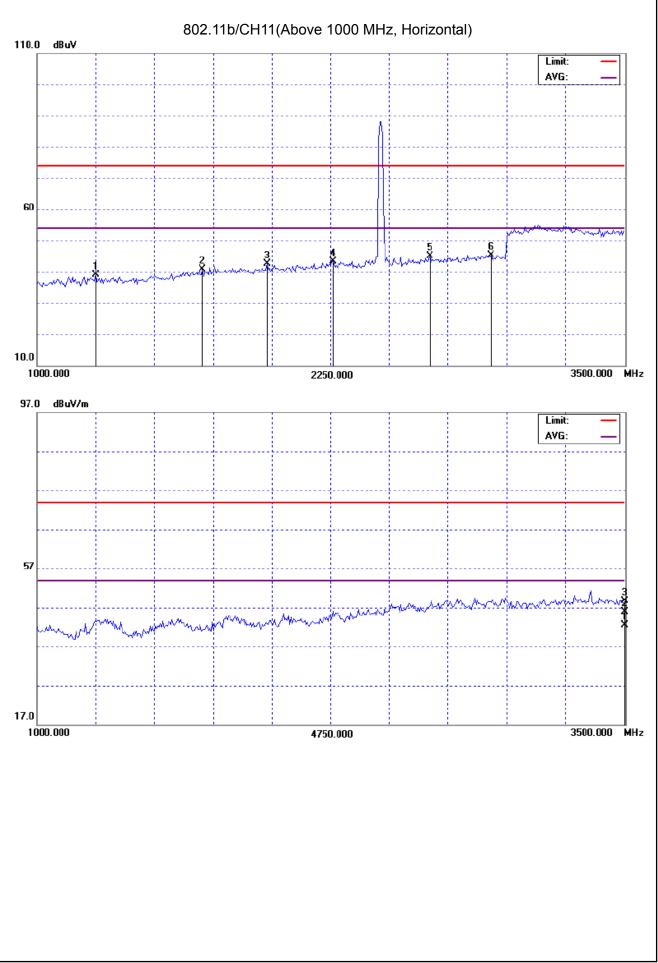


	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	23 ℃	Relative Humidity:	68 %
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11b/CH11		

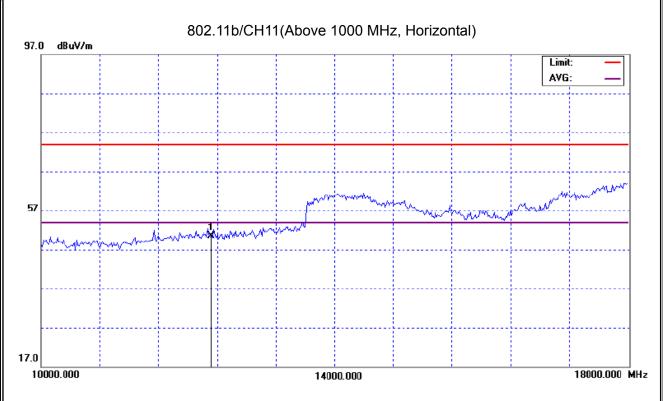
Freq.	Ant.Pol.	Reading		Ant./CF	A	Act.		Limit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
4924.00	Н	37.56	*	5.04	42.60	*	74.00	54.00	X/H
7386.00	Н	35.82	*	10.10	45.92	*	74.00	54.00	X/H
9848.00	Н	36.13	*	12.50	48.63	*	74.00	54.00	X/H
12310.00	Н	34.81	*	15.61	50.42	*	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency.
 "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (5) Data of measurement within this frequency range shown "*" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand









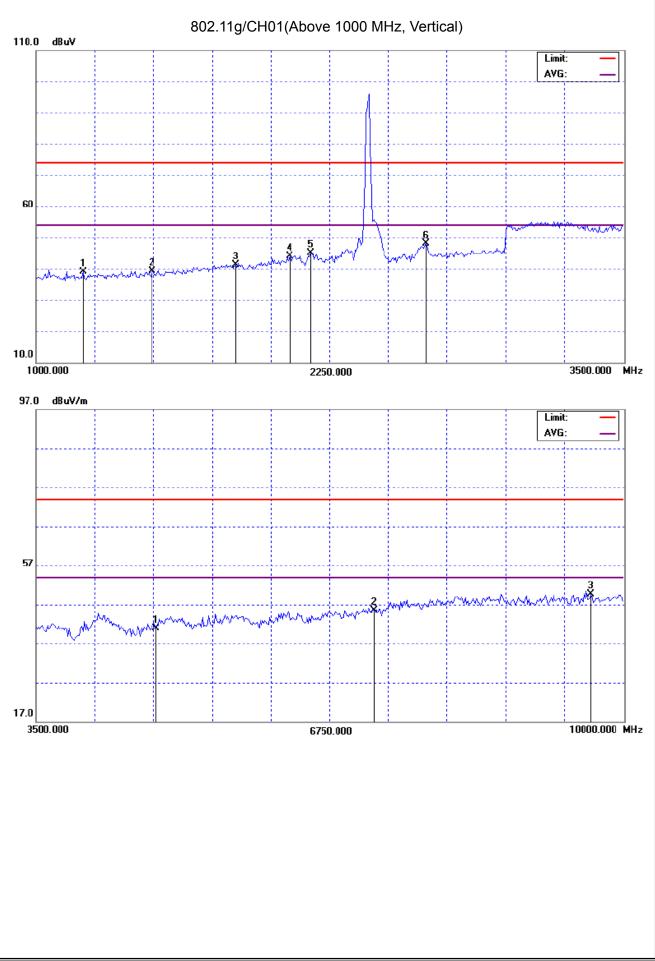


	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	23 ℃	Relative Humidity:	68 %
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11g/CH01		

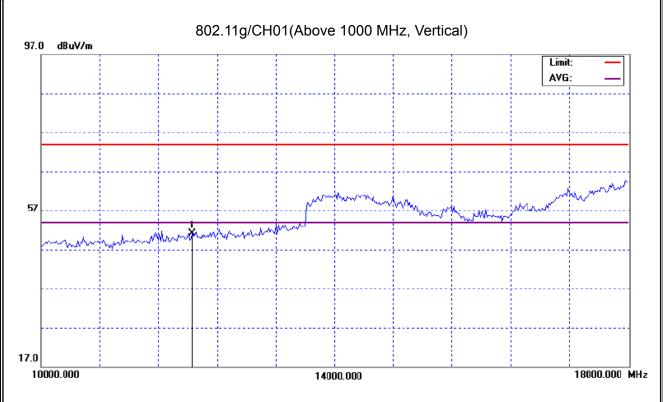
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
4824.00	V	36.21	*	4.75	40.96	*	74.00	54.00	X/H
7236.00	V	36.06	*	9.42	45.48	*	74.00	54.00	X/H
9648.00	V	37.38	*	12.29	49.67	*	74.00	54.00	X/H
12060.00	V	35.65	*	15.54	51.19	*	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency.
 "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown "*" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand









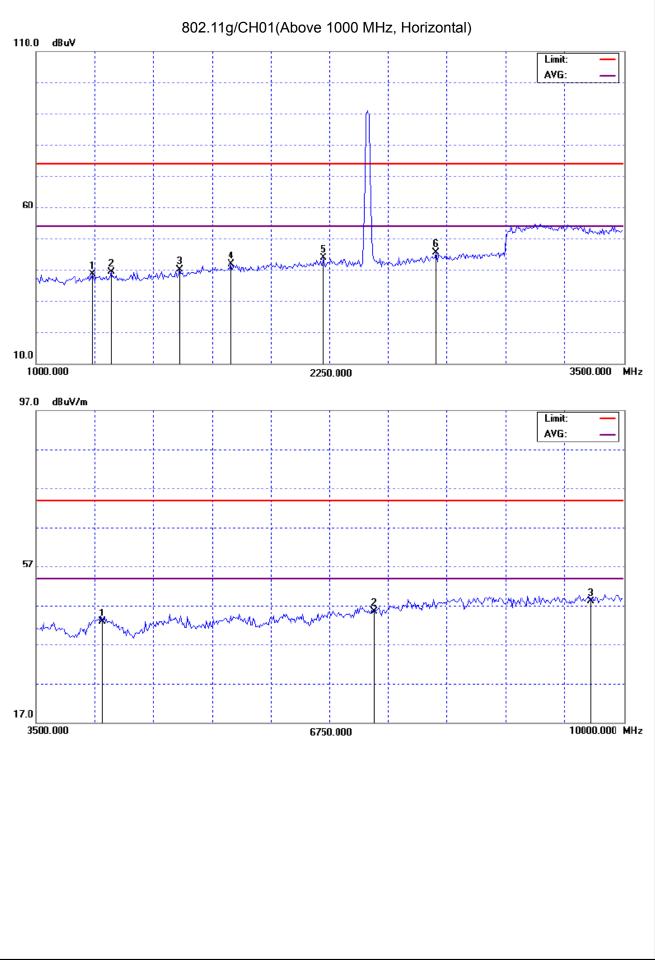


	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	23 ℃	Relative Humidity:	68 %
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11g/CH01		

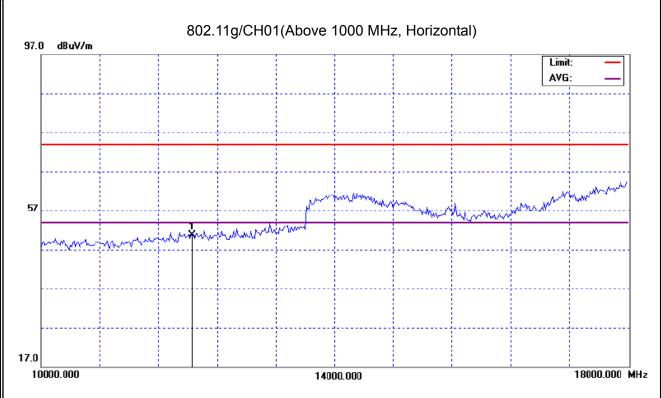
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
4224.00	Н	39.04	*	3.80	42.84	*	74.00	54.00	X/H
7236.00	Н	36.17	*	9.42	45.59	*	74.00	54.00	X/H
9648.00	Н	35.83	*	12.29	48.12	*	74.00	54.00	X/H
12060.00	Н	35.23	*	15.54	50.77	*	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency.
 "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown "*" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
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 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand











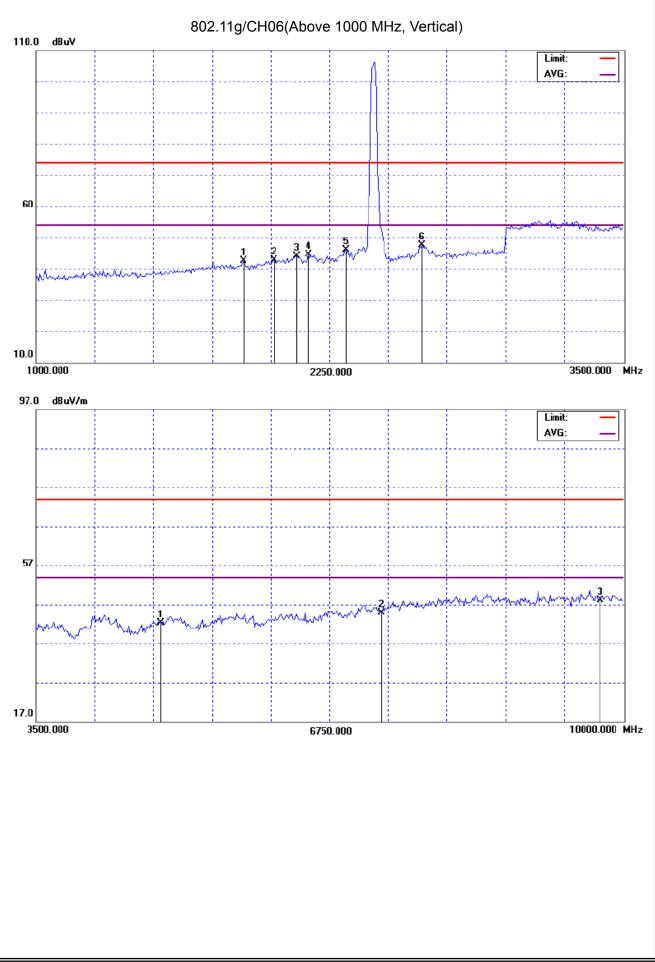
	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	23 ℃	Relative Humidity:	68 %
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11g/CH06		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
4874.00	V	37.37	*	4.90	42.27	*	74.00	54.00	X/H
7311.00	V	35.23	*	9.76	44.99	*	74.00	54.00	X/H
9748.00	V	35.77	*	12.40	48.17	*	74.00	54.00	X/H
12185.00	V	35.34	*	15.58	50.92	*	74.00	54.00	X/H

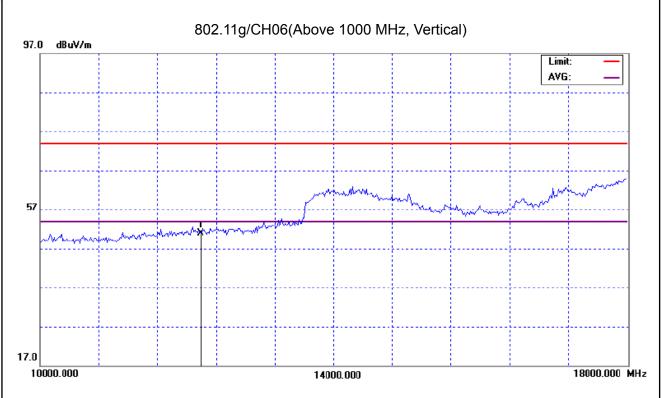
- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency.
 "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown "*" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand



Neutron Engineering Inc.







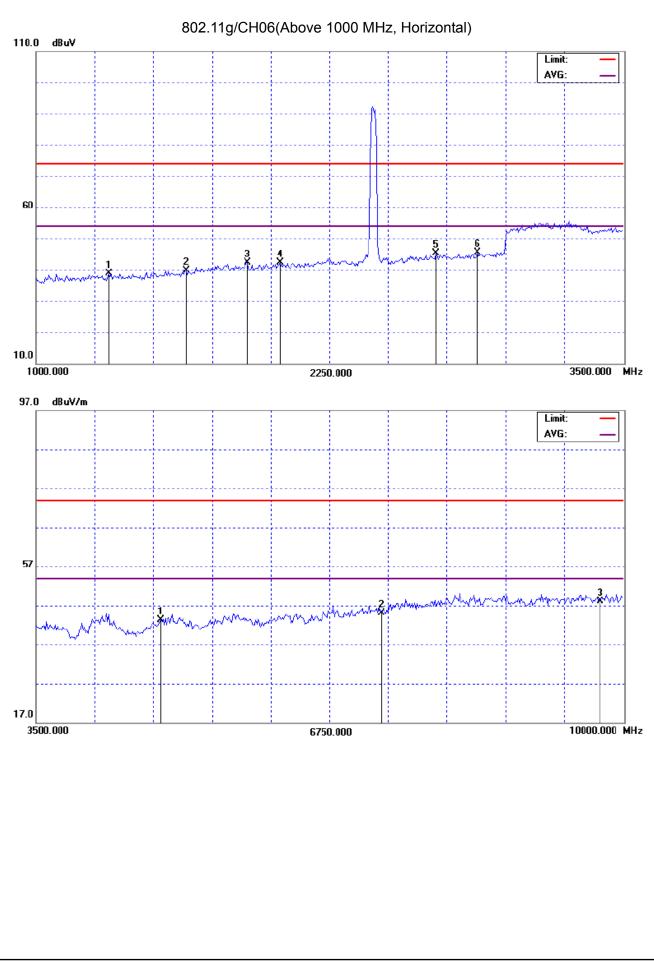


	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	23 ℃	Relative Humidity:	68 %
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11g/CH06		

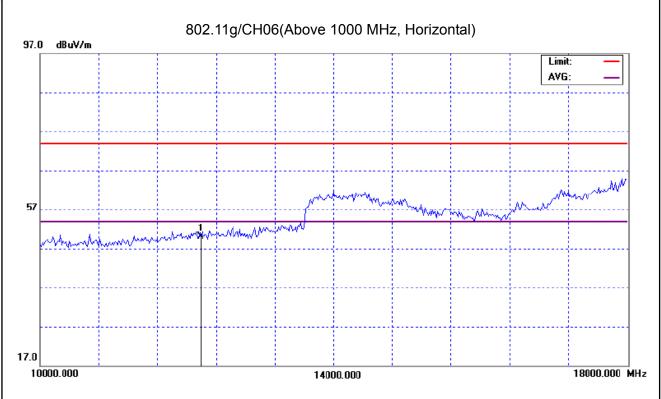
Freq.	Ant.Pol.	Reading		Ant./CF	A	Act.		Limit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
4874.00	Н	38.50	*	4.90	43.40	*	74.00	54.00	X/H
7311.00	Н	35.43	*	9.76	45.19	*	74.00	54.00	X/H
9748.00	Н	35.69	*	12.40	48.09	*	74.00	54.00	X/H
12185.00	Н	34.61	*	15.58	50.19	*	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency.
 "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (5) Data of measurement within this frequency range shown "*" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand









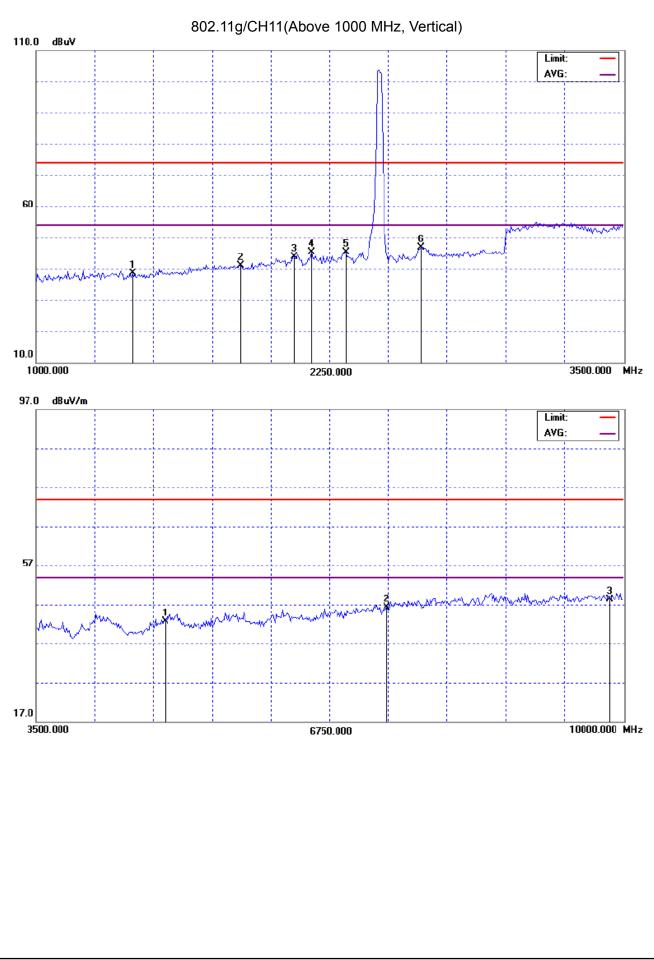


	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	23 ℃	Relative Humidity:	68 %
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11g/CH11		

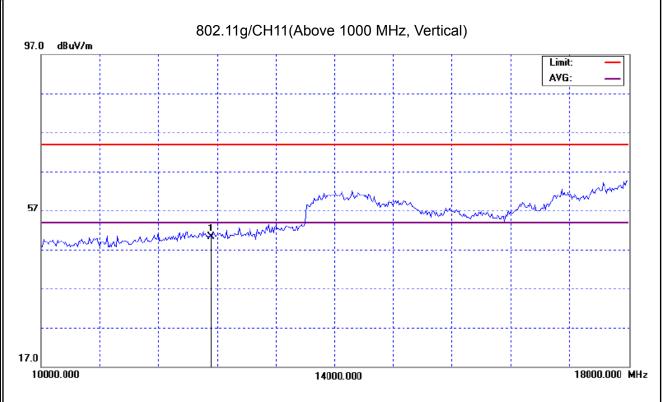
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
4924.00	V	37.72	*	5.04	42.76	*	74.00	54.00	X/H
7386.00	V	36.14	*	10.10	46.24	*	74.00	54.00	X/H
9848.00	V	35.74	*	12.50	48.24	*	74.00	54.00	X/H
12310.00	V	34.78	*	15.61	50.39	*	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency.
 "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (5) Data of measurement within this frequency range shown "*" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand









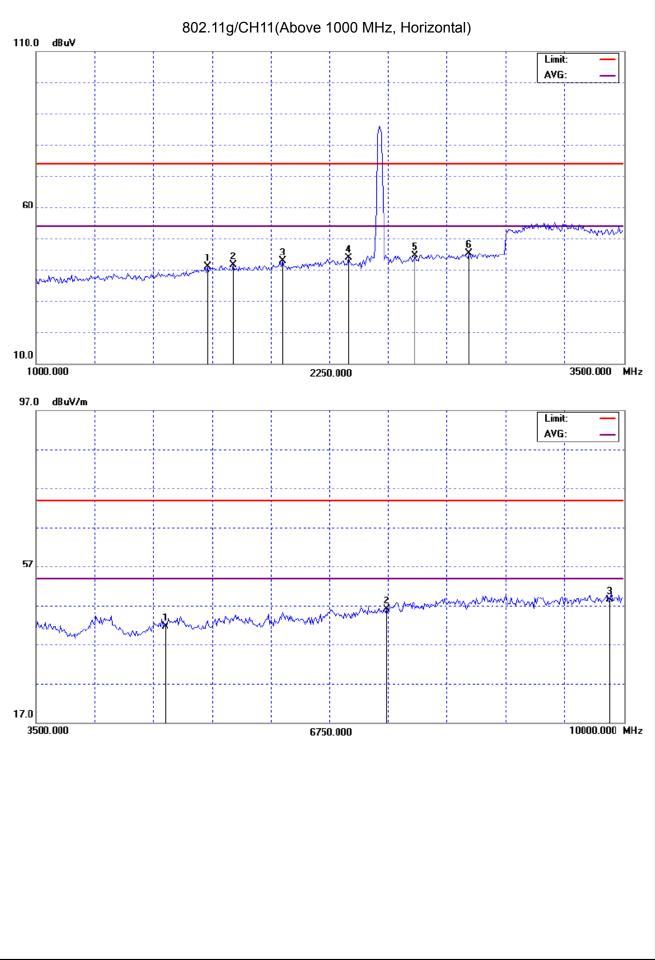


	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	23 ℃	Relative Humidity:	68 %
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11g/CH11		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	nit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
4924.00	Н	36.59	*	5.04	41.63	*	74.00	54.00	X/H
7386.00	Н	36.02	*	10.10	46.12	*	74.00	54.00	X/H
9848.00	Н	35.98	*	12.50	48.48	*	74.00	54.00	X/H
12310.00	Н	34.80	*	15.61	50.41	*	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency.
 "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (5) Data of measurement within this frequency range shown "*" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand











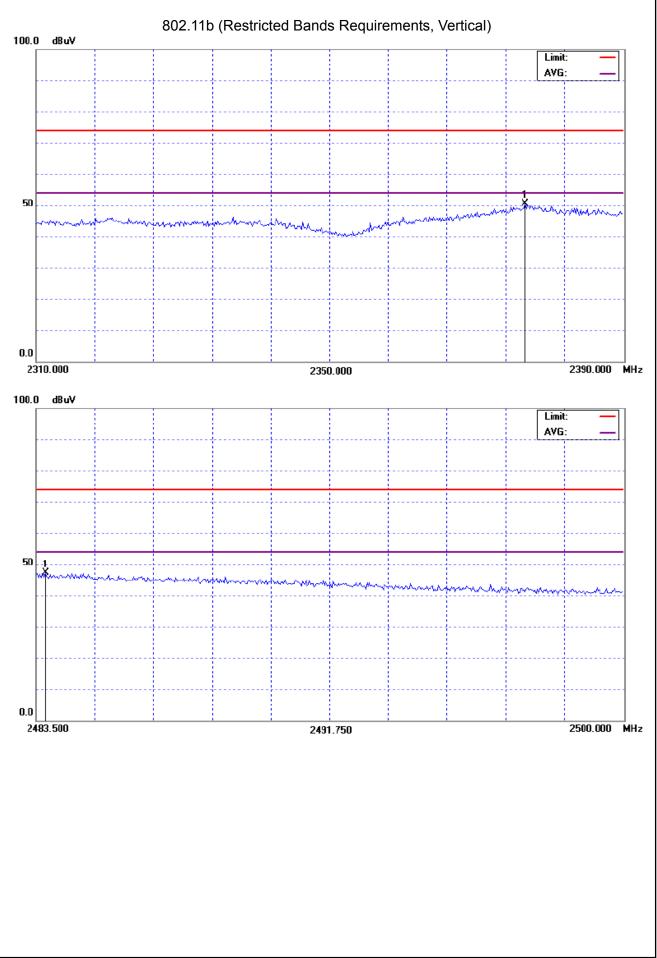
4.2.9 TEST RESULTS (Restricted Bands Requirements)

EUT :	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3					
Temperature :	23 ℃	Relative Humidity:	68 %					
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz					
Test Mode :	802.11b(Vertical)	302.11b(Vertical)						
Note :	 The emission of the carrier radii (Peak and AV) as following: 1. The transmitter was then cort to transmit at the lowest charmeasured at 2310-2390 MHz 2. The transmitter was configured transmit at the highest charmeasured at 2483.5-2500 M 	nfigured with the wor nnel (CH01). Then th z. red with the worst cas nel (CH11). Then the	st case antenna and setup he field strength was se antenna and setup to					

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2376.72	V	52.50	*	-1.93	50.57	*	74.00	54.00	
2483.76	V	48.94	*	-1.65	47.29	*	74.00	54.00	

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (3) EUT Orthogonal Axes:
 - "X" denotes Laid on Table ; "Y" denotes Vertical Stand ; "Z" denotes Side Stand





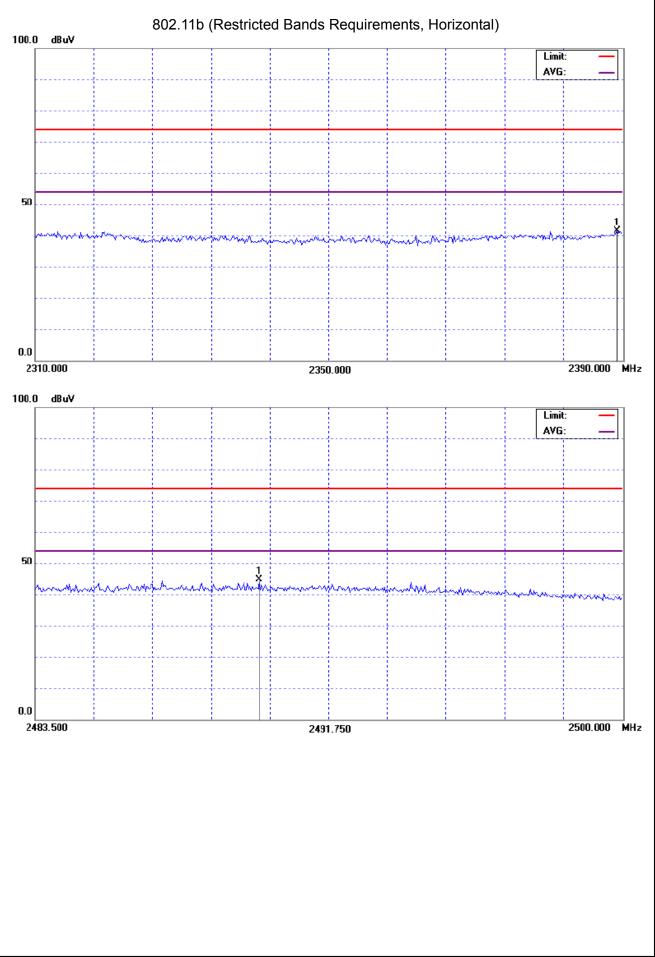


EUT :	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	23 ℃	Relative Humidity:	68 %
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11b(Horizontal)		
Note :	 The emission of the carrier radi (Peak and AV) as following: 1. The transmitter was then cor to transmit at the lowest char measured at 2310-2390 MHz 2. The transmitter was configur transmit at the highest chanr measured at 2483.5-2500 M 	nfigured with the wor nnel (CH01). Then th z. ed with the worst cas nel (CH11). Then the	st case antenna and setup he field strength was se antenna and setup to

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2389.36	Н	43.58	*	-1.89	41.69	*	74.00	54.00	
2489.80	Н	46.52	*	-1.64	44.88	*	74.00	54.00	

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (3) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand





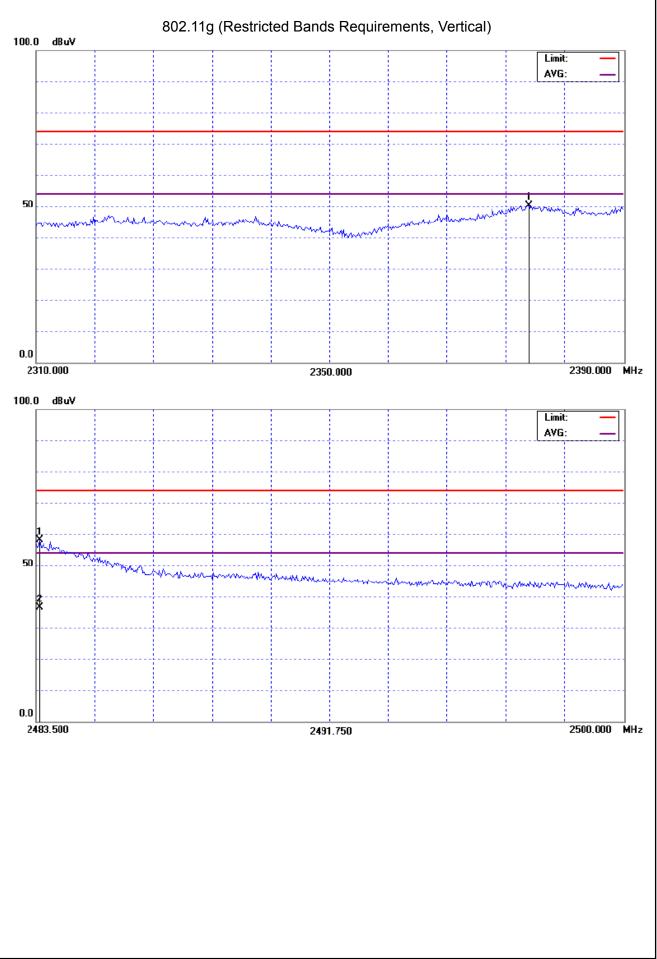


EUT :	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3					
Temperature :	23 ℃	Relative Humidity:	68 %					
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz					
Test Mode :	802.11g(Vertical)	802.11g(Vertical)						
Note :	 The emission of the carrier radii (Peak and AV) as following: 1. The transmitter was then corrison to transmit at the lowest charmeasured at 2310-2390 MHz 2. The transmitter was configured transmit at the highest channel measured at 2483.5-2500 M 	nfigured with the wor nnel (CH01). Then th z. red with the worst cas nel (CH11). Then the	st case antenna and setup le field strength was se antenna and setup to					

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2377.20	V	52.42	*	-1.92	50.50	*	74.00	54.00	
2483.60	V	59.85	38.27	-1.65	58.20	36.62	74.00	54.00	

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (3) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand





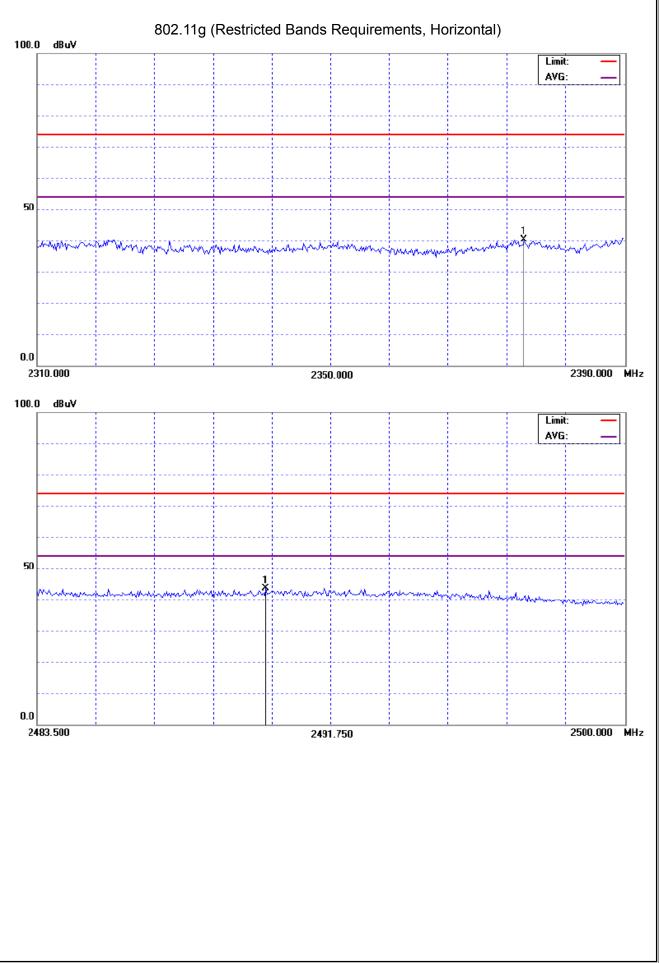


EUT :	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3					
Temperature :	23 ℃	Relative Humidity :	68 %					
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz					
Test Mode :	802.11g(Horizontal)	802.11g(Horizontal)						
Note :	 The emission of the carrier radii (Peak and AV) as following: 1. The transmitter was then corr to transmit at the lowest char measured at 2310-2390 MHz 2. The transmitter was configur transmit at the highest chanr measured at 2483.5-2500 M 	nfigured with the wor nnel (CH01). Then th z. red with the worst cas nel (CH11). Then the	st case antenna and setup he field strength was se antenna and setup to					

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2376.40	Н	42.36	*	-1.93	40.43	*	74.00	54.00	
2489.94	Н	45.23	*	-1.64	43.59	*	74.00	54.00	

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = 200 ms
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (3) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand







5. BANDWITH TEST

5.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C									
Section	Test Item	Limit	Frequency Range (MHz)	Result						
15.247 (a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS						

5.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	ADVAN TEST	R3132	81700025	Feb. 21, 2007

Remark: " N/A" denotes No Model No., Serial No. or No Calibration specified.

5.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW=100KHz, Sweep time = 20 ms.

5.1.3 DEVIATION FROM STANDARD

No deviation.

5.1.4 TEST SETUP

	 H	
EUT	SPECTRUM	
	ANALYZER	

5.1.5 EUT OPERATION CONDITIONS

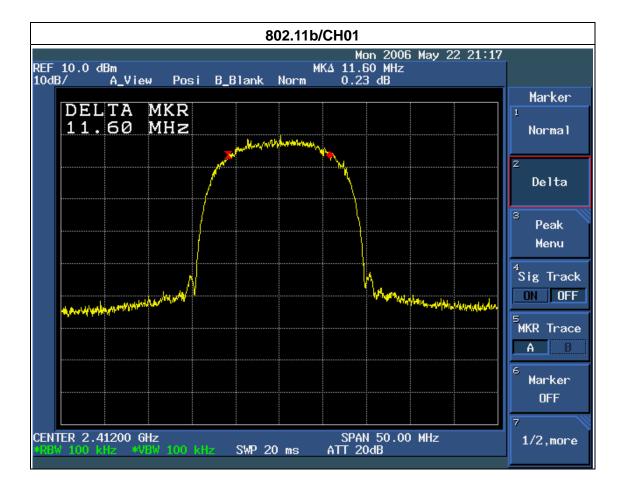
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.



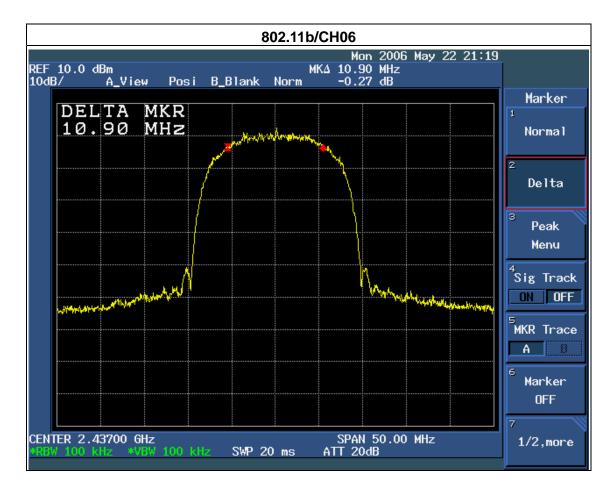
5.1.6 TEST RESULTS

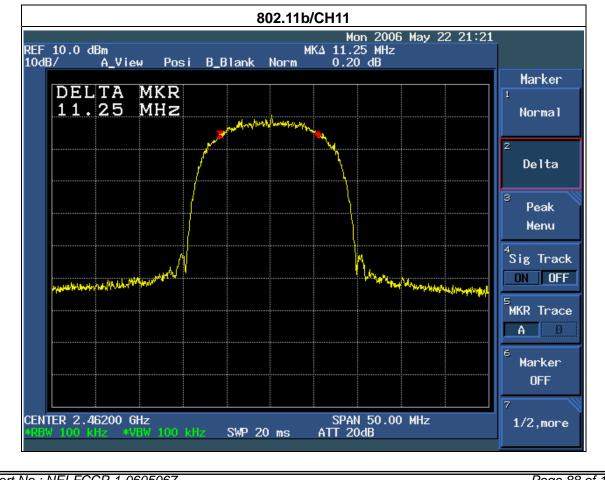
	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	27 ℃	Relative Humidity:	58 %
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11b/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	11.60	>=500KHz
CH06	2437	10.90	>=500KHz
CH11	2462	11.25	>=500KHz









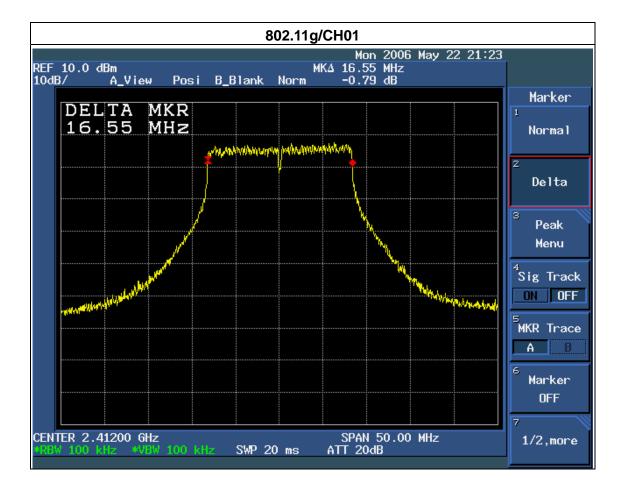
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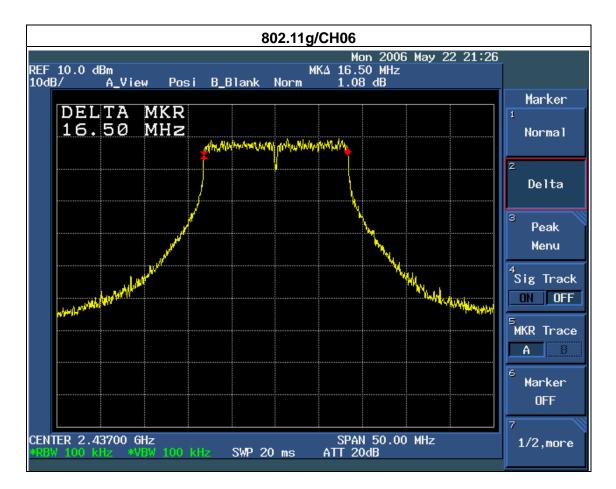


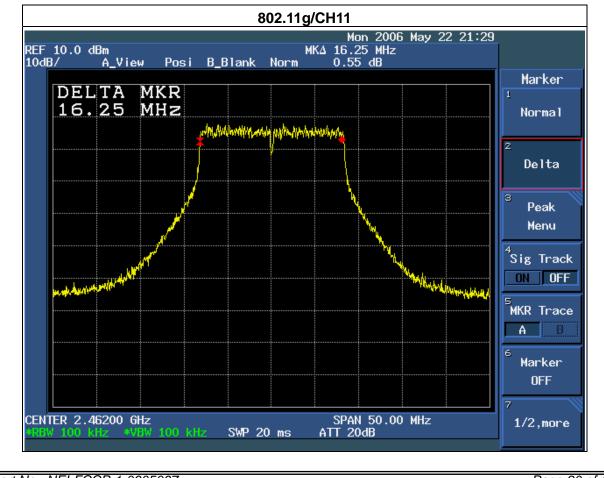
	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	27 ℃	Relative Humidity:	58 %
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11g/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	16.55	>=500KHz
CH06	2437	16.50	>=500KHz
CH11	2462	15.25	>=500KHz









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6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (b)(1)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

6.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	ADVAN TEST	R3132	81700025	Feb. 21, 2007

Remark: " N/A" denotes No Model No., Serial No. or No Calibration specified.

6.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 3MHz, VBW= 3MHz, Sweep time = 20 ms.

6.1.3 DEVIATION FROM STANDARD

No deviation.

6.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

6.1.5 EUT OPERATION CONDITIONS

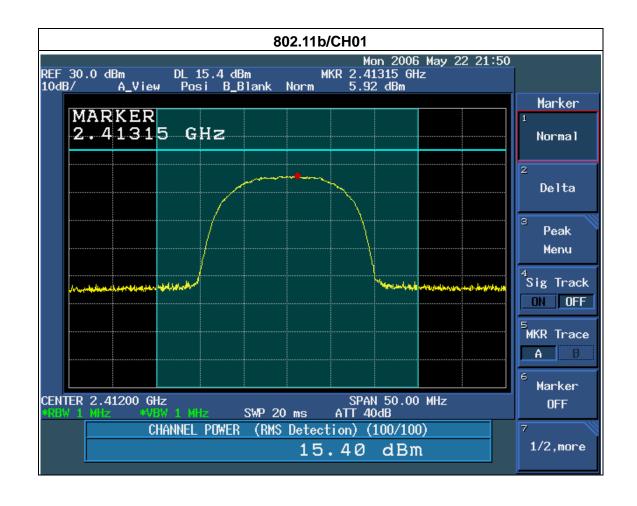
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.



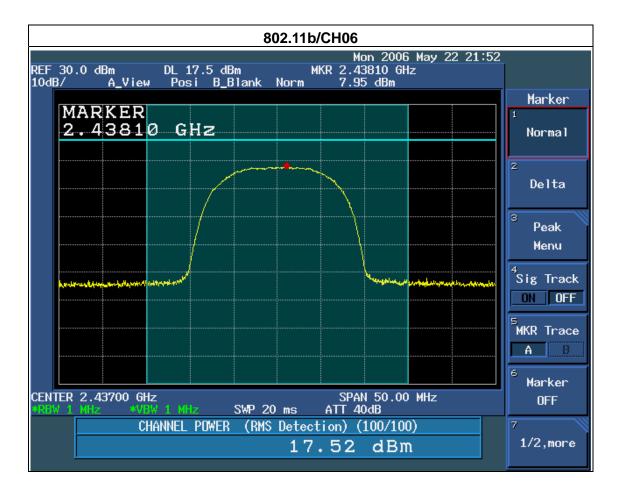
6.1.6 TEST RESULTS

	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	27 ℃	Relative Humidity:	58 %
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11b/CH01, CH06, CH11		

Test Channel	Frequency	Peak Output Power		LIMIT
	(MHz)	(dBm)	(dBm)	(W)
CH01	2412	15.40	30	1
CH06	2437	17.52	30	1
CH11	2462	16.05	30	1









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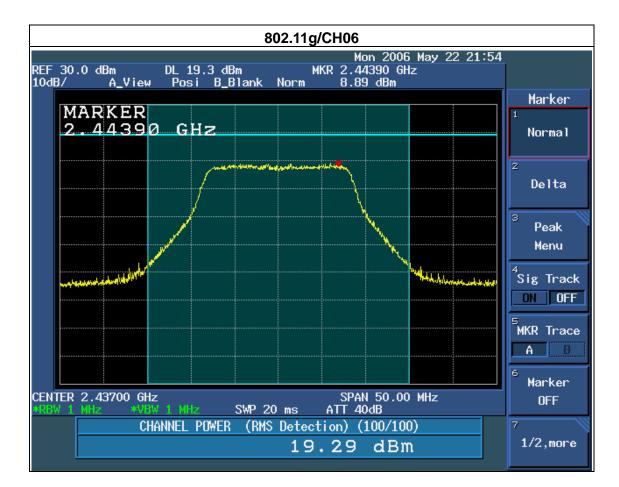


	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	27 ℃	Relative Humidity:	58 %
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11g/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412	17.21	30	1
CH06	2437	19.29	30	1
CH11	2462	17.84	30	1









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7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247), Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247 (c)	Antenna conducted Spurious Emission	20dB less than the peak value of fundamental frequency	30-25000	PASS		

7.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Jan. 09, 2007

Remark: " N/A" denotes No Model No., Serial No. or No Calibration specified.

7.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms.

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP



7.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.



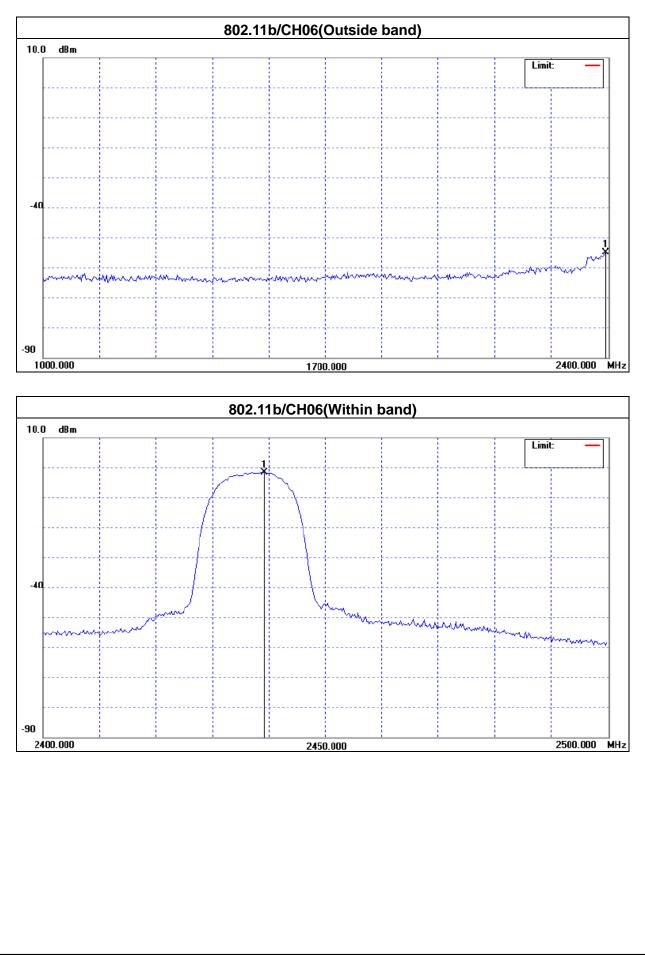
7.1.6 TEST RESULTS

	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	27 ℃	Relative Humidity :	58 %
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11b/CH01, CH06, CH11	·	

Channel of Worst Data: CH06					
The max. radio frequency power in any 100kHzThe max. radio frequency power in any 100 kHzbandwidth outside the frequency bandbandwidth within the frequency band.					
FREQUENCY(MHz) POWER(dBm) FREQUENCY(MHz) POWER(dBm)					
2397.2 -51.17 2439.2 -1.65					
Result					

In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.





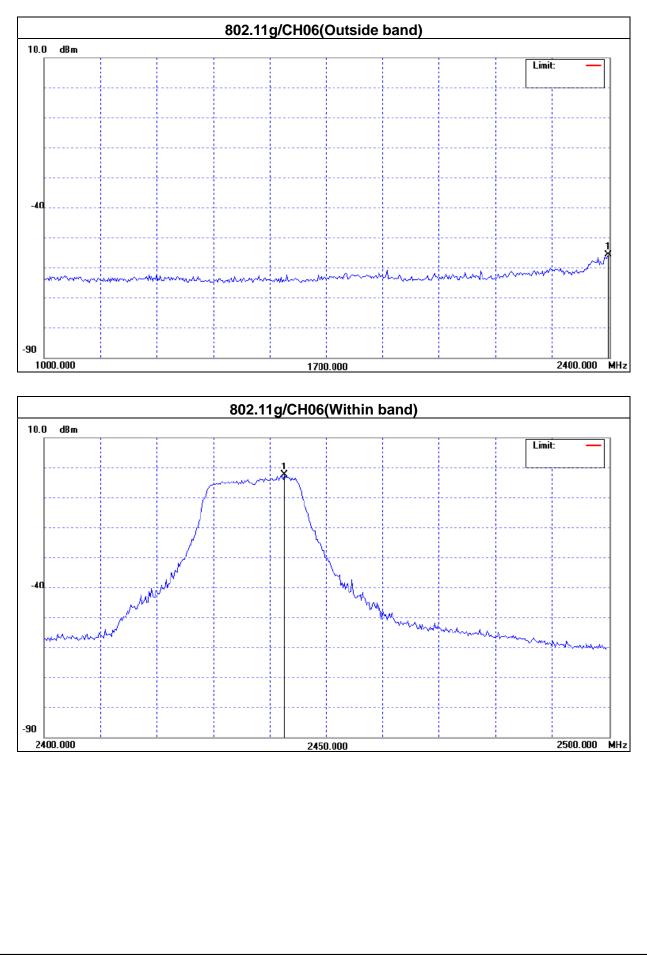


	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	27 ℃	Relative Humidity:	58 %
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11g/CH01, CH06, CH11		

Channel of Worst Data: CH06					
The max. radio frequency power in any 100kHz bandwidth outside the frequency band bandwidth within the frequency band.					
FREQUENCY(MHz) POWER(dBm) FREQUENCY(MHz) POWER(dBm)					
2399.0 -37.50 2442.6 -2.48					
Result					

In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.







8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247 (d)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS	

8.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	ADVAN TEST	R3132	81700025	Feb. 21, 2007

Remark: " N/A" denotes No Model No., Serial No. or No Calibration specified.

8.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW=3KHz, VBW=3KHz, Sweep time = 200s.

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.1.5 EUT OPERATION CONDITIONS

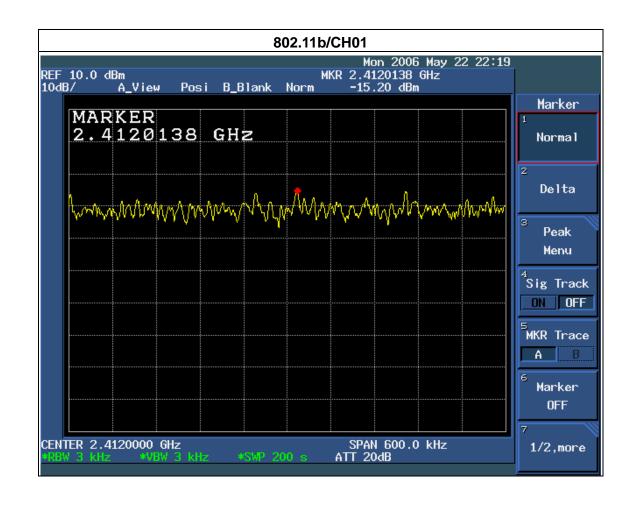
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.



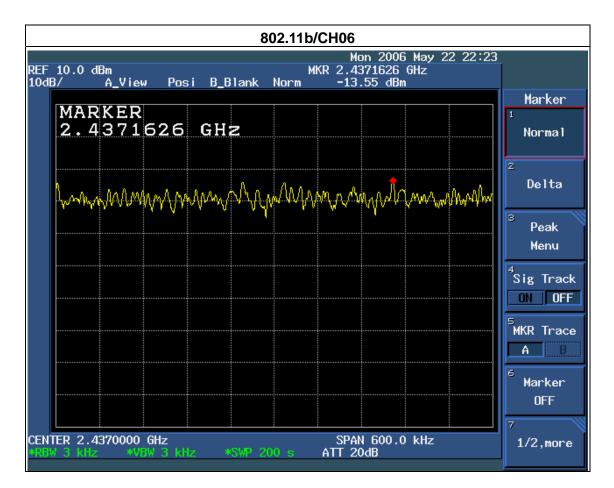
8.1.6 TEST RESULTS

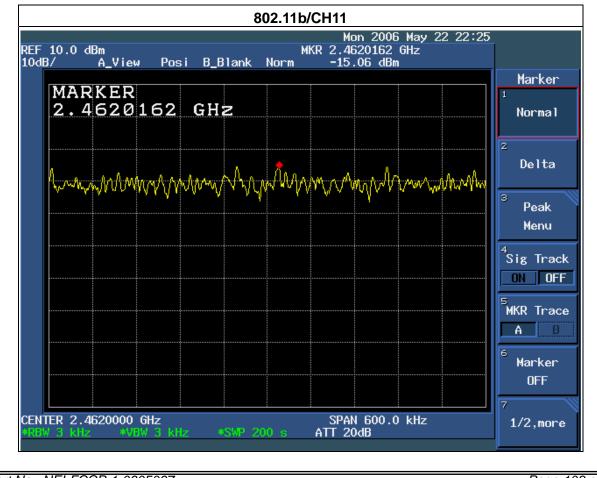
	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	27 ℃	Relative Humidity:	58 %
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11b/CH01, CH06, CH11		

Test Channel	Frequency	Peak Output Power	LIMIT
Test Channel	(MHz)	(dBm)	(dBm)
CH01	2412	-15.20	8
CH06	2437	-13.55	8
CH11	2462	-15.06	8





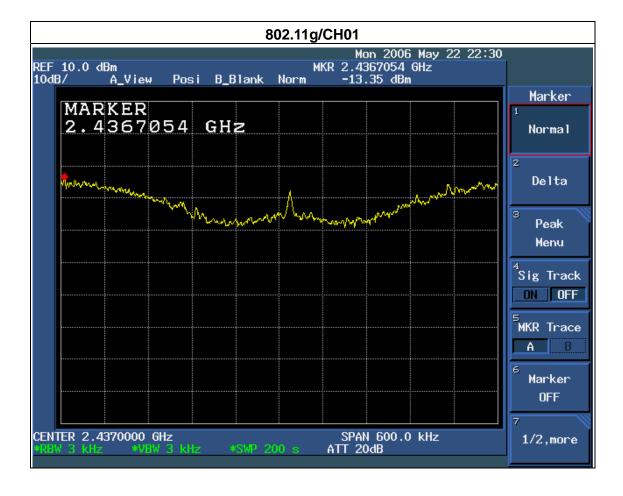




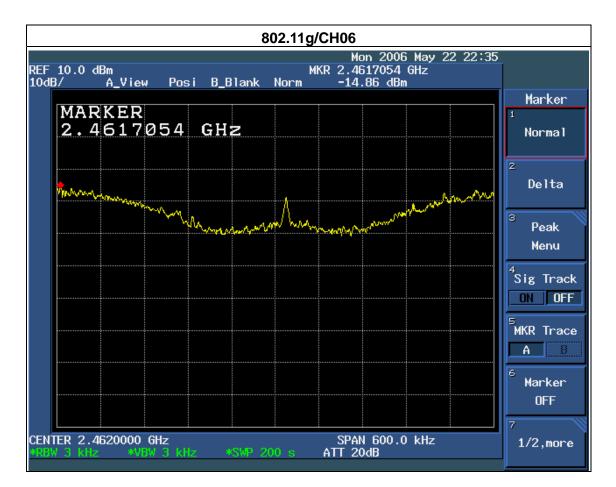


	ADSL Wireless Broadband Router witn 4-Port Switch	Model No. :	IP806GA V3
Temperature :	27 ℃	Relative Humidity:	58 %
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz
Test Mode :	802.11g/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)
CH01	2412	-13.35	8
CH06	2437	-14.86	8
CH11	2462	-15.58	8









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9. RF EXPOSURE TEST

9.1 APPLIED PROCEDURES / LIMIT

Based upon the new TCB exclusion list published by FCC on July 2002				
Frequency Range(MHz)	LIMIT (mW/cm^2)			
2402-2480	1			

9.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	ADVAN TEST	R3132	81700025	Feb. 21, 2007

Remark: " N/A" denotes No Model No., Serial No. or No Calibration specified.



9.1.2 TEST RESULTS

	JT : ADSL Wireless Broadband Router with 4-Port Switch		IP806GA V3
Temperature :	27 ℃	Relative Humidity:	58 %
Pressure :	1014 hPa	Test Power :	AC 120V/60Hz
Test Mode :	As bellow		

Test Mode : 802.11b/CH01, CH06, CH11 Channe				nnel of worst data: CH06	
Peak output power	Ant Gain	EIRP (1)		The maximum power density	LIMIT
(dBm)	(dBi)	(dBm)	mW	at 20cm distance: S	(mW/cm^2)
17.52	1.8	19.32	85.5	0.017<<1	1

Test Mode : 802.11g/CH01, CH06, CH11				nnel of worst data: CH06	
Peak output power	Ant Gain	EIRP (1)		The maximum power density	LIMIT
(dBm)	(dBi)	(dBm)	mW	at 20cm distance: S	(mW/cm^2)
19.29	1.8	21.09	128.5	0.025<<1	1

NOTE:

(1) EIRP= Peak output power + Ant Gain

(2) S (mW/cm²) = EIRP / (4π R2)



Neutron Engineering Inc.

ATTACHMENT

PHOTOGRAPHS OF EUT