



TEST REPORT

Product Name : 802.11g WLAN Mini PCI
Model Number : AV802G
Brand Name : ViewSonic
FCC ID : GSSAV802G

Applicant : ViewSonic Corporation.
Address : 381 Brea Canyon Rd. Walnut, CA.91709 USA

Received Date : June 18, 2004
Tested Date : July 29, 2003; June 10 ~ 24, 2004

Notes :

1. This report will be invalid if duplicated or photocopied in part.
2. This report refers only to the specimen(s) submitted to testing, and be invalid as separately used.
3. This report is invalid without examination stamp and signature of this institute.
4. The tested specimen(s) will be preserved for thirty days from the data issued.
5. The report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.
6. **This report is modified from ER03-07-064.**





Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C
TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : GSSAV802G
Report No. : ER04-06-034FRF
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Test Report Certification

Product Name : 802.11g WLAN Mini PCI
Model Number : AV802G
Brand Name : ViewSonic
FCC ID : GSSAV802G
Applicant : ViewSonic Corporation.

Measurement Standard :

FCC 47 C.F.R. Part 15, Subpart B and Subpart C (2003)
ANSI C63.4 (2001)

Tested By : Ken Tu, **Date** : June 24, 2004
(Ken Tu)

Reviewed By : Chieh-De Tsai, **Date** : June 24, 2004
(Roger Sheng)

Approved By : Chieh-De Tsai, **Date** : June 24, 2004
(Chieh-De Tsai, Manager)



WE HEREBY CERTIFY THAT: The measurements shown in the attachment were made in accordance with the procedures indicated, and the energy emitted by the equipment was found to be within the limits applicable. We assume full responsibility for the accuracy and completeness of these measurements and vouch for the qualifications of all persons taking them.



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1.3 Description of Peripherals

(1) Notebook PC

MANUFACTURER : IBM CORP.
MODEL NUMBER : 08N1180
INPUT POWER : 16V, 3.5A

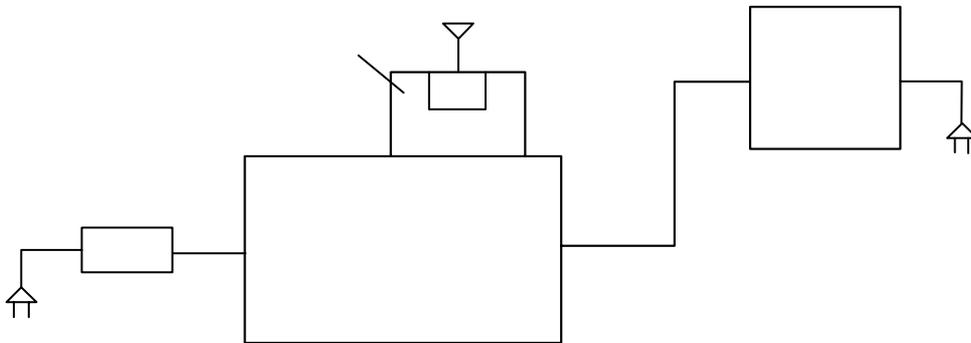
Adapter

MANUFACTURER : IBM CORP.
MODEL NUMBER : 02K6809
INPUT POWER : 100-240V, 50/60Hz, 1.5A
OUTPUT POWER : 16V, 3.5A

(2) Printer

MANUFACTURER : HP CORP.
MODEL NUMBER : C8952D
SERIAL NUMBER : CN29B181H7
INPUT POWER : 100-240VAC, 50/60Hz, 0.7A
SIGNAL CABLE : Shielded, Undetachable, 1.8m

1.4 EUT & Peripherals Setup Diagram



The indicated numbers (1)(2), please refer to item 1.3

1.5 EUT Operating Condition

1. Run Intersil cTxRx v2.0.0
2. Start test :
 - (a) Tx mode test
 - Data Rate : 6Mbps for 802.11g
 - 11Mbps for 802.11b
 - Channel set : 1, 6, 11
 - Press START Transmitting, start Tx test.
 - (b) Rx mode test :
 - Select Receive continues
 - Channel set : 1, 6, 11
 - Press START RECEIVING , start Rx test.



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1.6 Description of Laboratory

SITE DESCRIPTION

FCC Certificate NO. : 90585
BSMI Certificate NO. : SL2-IN-E-0002
NVLAP Lab Code : 200118-0
CNLA Certificate NO. : CNLA-ZL97018
VCCI Certificate NO. : R-1189, C-1250
TÜV Rheinland Certificate NO. : 10008375

NAME OF SITE : Ecom Sertech Corp. Hsin-Chu Lab.
(Spin-off from ITRI / ERSO on Apr. 01, 2003)
SITE LOCATION : Rm.258, Bldg.17, NO.195 , Sec. 4, Chung Hsing Rd.,
Chu-Tung Chen. Hsin-Chu, Taiwan 310 R.O.C.

1.7 Summary of Test Results

The EUT has been tested according to the following specifications :

APPLIED STANDARD : FCC 47 C.F.R. Part 15, Subpart B and Subpart C

Standard Section	Test Item and Limit	Result	REMARK
15.107 15.207	AC Power Conducted Emission Limit : 15.107	PASS	Meet the requirement of limit
15.247(a)(2)	Spectrum Bandwidth of a Orthogonal Frequency Division Multiplex System Limit : 6dB bandwidth > 500KHz	PASS	Meet the requirement of limit
15.247(b)	Maximum Peak Output Power Limit : max. 30dBm	PASS	Meet the requirement of limit
15.109 15.205 15.209	Transmitter Radiated Emissions Limit : Table 15.209	PASS	Meet the requirement of limit
15.247(d)	Power Spectral Density Limit : max. 8dBm	PASS	Meet the requirement of limit
15.247(c)	Out of Band Emission and Restricted Band Radiation Limit:20dB less than peak value of fundamental frequency Restricted band Limit:Table 15.209	PASS	Meet the requirement of limit



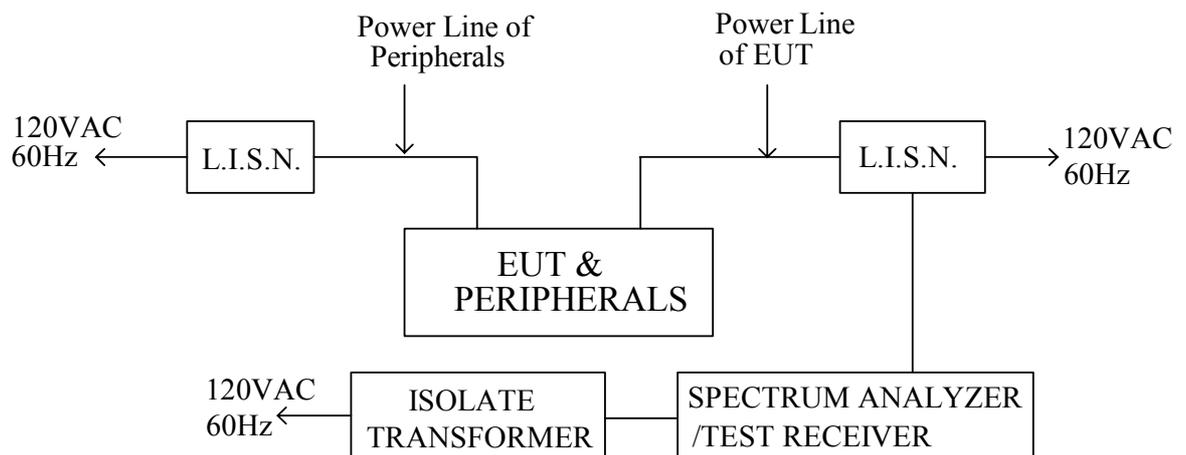
2. CONDUCTED POWERLINE TEST

2.1 Test Equipments

The following test equipments are used during the conducted powerline tests :

Manufacturer or Type	Model No.	Serial No.	Date of Calibration	Calibration Period	Remark
HP SPECTRUM ANALYZER & DISPLAY	8568A	2235A02320	November 14, 2003	1 Year	PRETEST
HP QUASI-PEAK ADAPTER	85650 A	2341A00672	November 14, 2003	1 Year	PRETEST
SOLAR ISOLATION TRANSFORMER	7032-1	N/A	N/A	N/A	FINAL
EMCO L.I.S.N.	3850/2	9311-1025 9401-1028	January 08, 2004 For Characteristic impedance	1 Year	FINAL
			May 18, 2004 For Insertion loss		
R & S TEST RECEIVER	ESHS 30	838550/003	February 11, 2004	1 Year	FINAL
KEENE SHIELDED ROOM	5983	No.1	N/A	N/A	FINAL
R & S PULSE LIMIT	EHS3Z2	357.8810.52	July 10, 2003	1 Year	FINAL
N TYPE COAXIAL CABLE	-----	-----	July 10, 2003	1 Year	FINAL
50Ω TERMINATOR	-----	-----	July 10, 2003	1 Year	FINAL

2.2 Test Setup





2.3 Conducted Power Line Emission Limit

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following :

Frequency (MHz)	Maximum RF Line Voltage (dB μ v)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56	56-46
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

For intentional device, according to § 15.207(a) Line Conducted Emission Limit is same as above table.

2.4 Test Procedure

The test procedure is performed in a 12ft×12ft×8ft(L×W×H) shielded room. The EUT along with its peripherals were placed on a 1.0m(W)× 1.5m(L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane. The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chasis ground was bounded to the horizontal ground plane of shielded room. All peripherals were connected to the second LISN and the chasis ground also bounded to the horizontal ground plane of shielded room. The excess power cable between the EUT and the LISN was bundled. The power cables of peripherals were unbundled. All connecting cables of EUT and peripherals were moved to find the maximum emission.

2.5 Uncertainty of Conducted Emission

The uncertainty of conducted emission is ± 1.36 dB.



2.6 Conducted Power Line Emission

The frequency spectrum from 0.15 MHz to 30 MHz was investigated. All emissions not reported are much lower than the prescribed limits..

Temperature : 26 °C

Humidity : 65 % RH

Frequency (MHz)	Loss(dB)		Measurement				L1 Emission (dBμV)		L2 Emission (dBμV)		Limits (dBμV)	
			L1(dBμV)		L2(dBμV)		Q.P.	A.V.	Q.P.	A.V.	Q.P.	A.V.
	L1	L2	Q.P.	A.V.	Q.P.	A.V.						
0.150	0.1	0.2	*	*	*	*	*	*	*	*	66.00	56.00
0.264	0.10	0.20	39.90	*	*	*	40.00	*	*	*	61.30	51.30
0.267	0.10	0.20	*	*	38.00	*	*	*	38.20	*	61.21	51.21
0.531	0.10	0.20	*	*	36.50	*	*	*	36.70	*	56.00	46.00
0.597	0.10	0.20	28.70	*	*	*	28.80	*	*	*	56.00	46.00
0.729	0.10	0.20	*	*	28.00	*	*	*	28.20	*	56.00	46.00
1.944	0.10	0.20	*	*	16.60	*	*	*	16.80	*	56.00	46.00
1.992	0.10	0.20	27.00	*	*	*	27.10	*	*	*	56.00	46.00
2.931	0.19	0.20	*	*	21.70	*	*	*	21.90	*	56.00	46.00
4.050	0.20	0.20	27.60	*	*	*	27.80	*	*	*	56.00	46.00
4.782	0.20	0.20	*	*	27.00	*	*	*	27.20	*	60.00	50.00
7.173	0.32	0.30	30.00	*	*	*	30.32	*	*	*	60.00	50.00
9.000	0.40	0.40	39.20	*	*	*	39.60	*	*	*	60.00	50.00
12.783	0.50	0.50	24.00	*	*	*	24.50	*	*	*	60.00	50.00
13.149	0.50	0.51	*	*	32.10	*	*	*	32.61	*	61.00	51.00
15.477	0.65	0.65	*	*	30.70	*	*	*	31.35	*	60.00	50.00
15.492	0.65	0.65	23.40	*	*	*	24.05	*	*	*	60.00	50.00
30.000	1.4	1.8	*	*	*	*	*	*	*	*	60.00	50.00

REMARKS :

- * Undetectable or the Q.P.values is lower than the limits of Ave.
- The RF-Chip combined with 802.11b&g mode. It will auto-detect the situation then switch the mode. The 802.11g mode is the worse case than the 802.11b mode. So only the 802.11g mode data are recorded in final test report..
- After a preliminary scan and technical experiences, the power line emission of two pair of antenna are almost the same. Only one test results of power line emission are shown in the report as representative.

2.7 Photos of Conduction Test



3. RADIATED EMISSION TEST

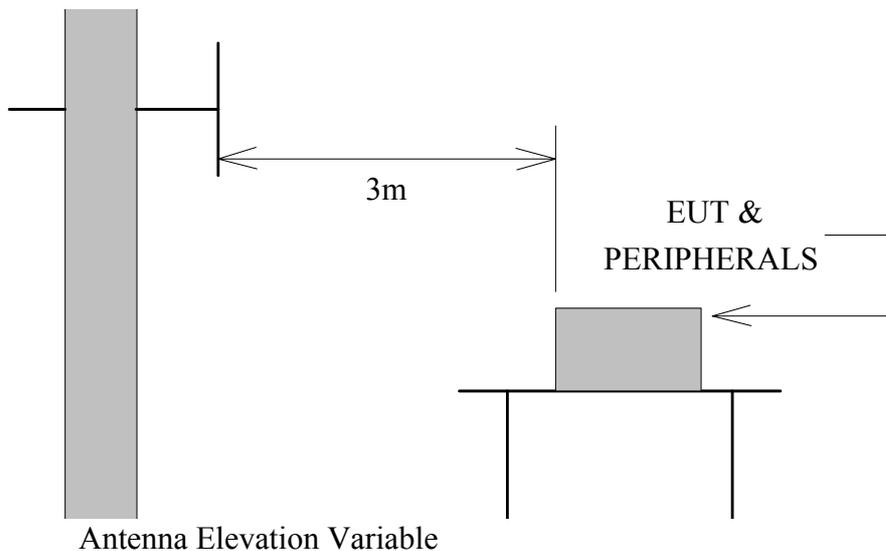
3.1 Test Equipments

The following test equipments are utilized in making the measurements contained in this report.

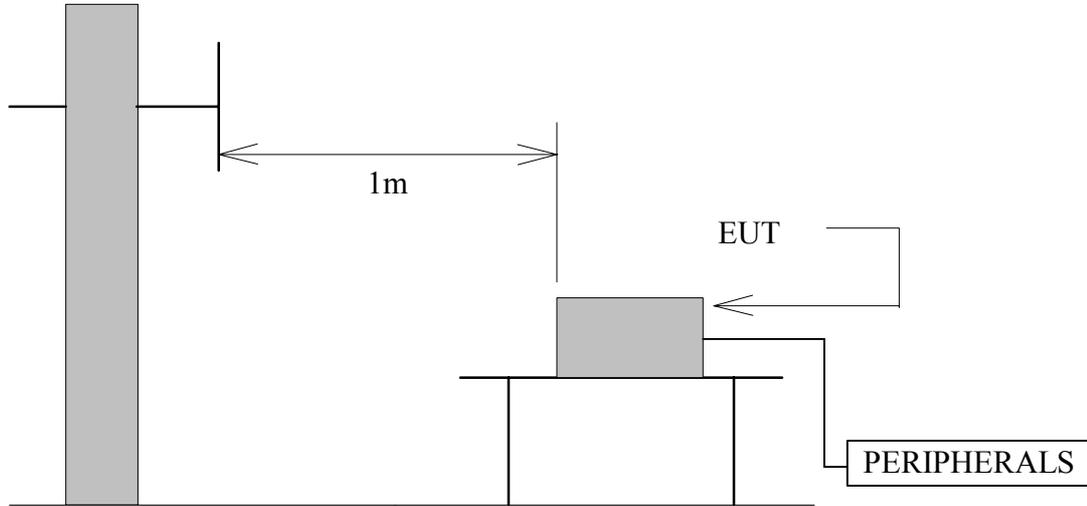
Manufacturer or Type	Model No	Serial No	Date of Calibration	Calibration Period	Remark
CHASE BI-LOG ANTENNA	CBL6112B	2421	May 07, 2004	1 Year	FINAL
R/S SPECTRUM ANALYZER	FSEK30	835253/002	June 17, 2004	1 Year	FINAL
OPEN SITE	-----	No.2	May 07, 2004	1 Year	FINAL
N TYPE COAXIAL CABLE	CHA9525	4	July 13, 2003	1 Year	FINAL
Horn Antenna	AH-118	10089	February 25, 2004	1 Year	FINAL
HP Pre-amplifier	8449B	3008A01471	October 11, 2003	1 Year	FINAL
HP High pass filter	84300/80038	011	CAL. ON USE	1 Year	FINAL
Horn Antenna	AH-840	03077	February 25, 2004	1 Year	FINAL

3.2 Test Setup

The diagram below shows the test setup that is utilized to make the measurements for emission from 30 to 1GHz.



The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



Antenna Elevation Variable

3.3 Radiation Limit

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values :

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

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table. According to § 15.247(c), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radiofrequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of desired power.



3.4 Test Procedures

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. During performing radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1GHz, the EUT was set 1 meters away from the interference-receiving antenna
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarization of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE :

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

3.5 Uncertainty of Radiated Emission

The uncertainty of radiated emission is ± 2.72 dB.



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3.6 Radiated Rf Noise Measurement

The frequency spectrum from 30 MHz to 1000 MHz was investigated. All emissions not reported are much lower than the prescribed limits.

All readings are quasi-peak values.

Temperature : 31 °C

Humidity : 53 % RH

Frequency (MHz)	Antenna Factor (dB)	Cable Loss (dB)	Meter Reading at 3m(dB μ V/M)		Limits at 3m (dB μ V/M)	Emission Level at 3m(dB μ V/M)	
			Horizontal	Vertical		Horizontal	Vertical
30.00	21.39	0.90	*	*	40.00	*	*
266.22	13.22	3.33	22.10	15.80	46.00	38.65	32.35
279.99	13.34	3.44	23.10	17.50	46.00	39.88	34.28
319.99	14.25	3.72	20.10	16.70	46.00	38.07	34.67
439.99	17.67	4.48	18.50	17.20	46.00	40.65	39.35
701.98	19.45	5.91	18.60	18.50	46.00	43.96	43.86
798.90	20.52	6.39	15.80	16.10	46.00	42.71	43.01
1000.00	21.58	7.00	*	*	54.00	*	*

REMARKS :

- *Undetectable
- Emission level (dB μ V/m) =Antenna Factor (dB/m) + Cable loss (dB)
+ Meter Reading (dB μ V).
- According to technical experiences, all spurious emission at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
- Mode : Wireless 802.11b Transmitting test (11Mbps).
- Antenna type : A pair of Dipole Antenna.



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All readings are quasi-peak values.

Temperature : 31 °C

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Frequency (MHz)	Antenna Factor (dB)	Cable Loss (dB)	Meter Reading at 3m(dB μ V/M)		Limits at 3m (dB μ V/M)	Emission Level at 3m(dB μ V/M)	
			Horizontal	Vertical		Horizontal	Vertical
30.00	21.39	0.90	*	*	40.00	*	*
266.22	13.22	3.33	17.90	14.80	46.00	34.45	31.35
279.99	13.34	3.44	23.30	16.90	46.00	40.08	33.68
319.99	14.25	3.72	24.20	18.70	46.00	42.17	36.67
439.99	17.67	4.48	15.50	16.70	46.00	37.65	38.85
701.98	19.45	5.91	15.50	15.30	46.00	40.86	40.66
798.90	20.52	6.39	14.80	14.90	46.00	41.71	41.81
1000.00	21.58	7.00	*	*	54.00	*	*

REMARKS :

1. *Undetectable
2. Emission level (dB μ V/m) = Antenna Factor (dB/m) + Cable loss (dB)
+ Meter Reading (dB μ V).
3. According to technical experiences, all spurious emission at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
4. Mode : Wireless 802.11g Transmitting test (6Mbps).
5. Antenna type : A pair of Dipole Antenna.



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All readings are quasi-peak values.

Temperature : 31 °C

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Frequency (MHz)	Antenna Factor (dB)	Cable Loss (dB)	Meter Reading at 3m(dB μ V/M)		Limits at 3m (dB μ V/M)	Emission Level at 3m(dB μ V/M)	
			Horizontal	Vertical		Horizontal	Vertical
30.00	21.39	0.90	*	*	40.00	*	*
165.89	10.97	2.54	24.20	17.60	43.50	37.71	31.11
199.99	10.39	2.80	27.10	20.00	43.50	40.29	33.19
239.90	12.54	3.12	23.00	15.70	46.00	38.66	31.36
279.99	13.34	3.44	23.40	15.60	46.00	40.18	32.38
319.99	14.25	3.72	15.60	7.40	46.00	33.57	25.37
359.99	15.74	3.96	21.40	11.30	46.00	41.10	31.00
399.99	17.24	4.20	21.00	13.10	46.00	42.44	34.54
479.98	18.10	4.76	12.60	7.40	46.00	35.46	30.26
1000.000	21.58	7.00	*	*	54.00	*	*

REMARKS :

- *Undetectable
- Emission level (dB μ V/m) = Antenna Factor (dB/m) + Cable loss (dB)
+ Meter Reading (dB μ V).
- According to technical experiences, all spurious emission at channel 1,6,11 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- Mode : Wireless 802.11b Transmitting test (11Mbps).
- Antenna type : One Dipole and one PIFA Antenna.



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All readings are quasi-peak values.

Temperature : 31 °C

Humidity : 53 % RH

Frequency (MHz)	Antenna Factor (dB)	Cable Loss (dB)	Meter Reading at 3m(dBμV/M)		Limits at 3m (dBμV/M)	Emission Level at 3m(dBμV/M)	
			Horizontal	Vertical		Horizontal	Vertical
30.00	21.39	0.90	*	*	40.00	*	*
165.89	10.97	2.54	24.50	17.50	43.50	38.01	31.01
199.99	10.39	2.80	27.30	20.50	43.50	40.49	33.69
239.90	12.54	3.12	23.20	15.60	46.00	38.86	31.26
279.99	13.34	3.44	23.50	15.70	46.00	40.28	32.48
319.99	14.25	3.72	15.70	7.20	46.00	33.67	25.17
359.99	15.74	3.96	21.60	11.50	46.00	41.30	31.20
399.99	17.24	4.20	21.20	13.00	46.00	42.64	34.44
479.98	18.10	4.76	12.90	7.20	46.00	35.76	30.06
1000.00	21.58	7.00	*	*	54.00	*	*

REMARKS :

- *Undetectable
- Emission level (dBμV/m) = Antenna Factor (dB/m) + Cable loss (dB)
+ Meter Reading (dBμV).
- According to technical experiences, all spurious emission at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
- Mode : Wireless 802.11g Transmitting test (6Mbps).
- Antenna type : One Dipole and one PIFA Antenna.



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FCC ID : GSSAV802G

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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH1 RX				Measurement Distance at 1m Horizontal polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4823.90	48.45	34.44	2.82	35.16	9.50	0.00	41.05	74	-32.95	P	1.14
4823.90	43.57	34.44	2.82	35.16	9.50	0.00	36.17	54	-17.83	A	1.14
7236.00	42.38	39.81	4.79	35.65	9.50	0.00	41.83	74	-32.17	P	1.00
7236.00	32.18	39.81	4.79	35.65	9.50	0.00	31.63	54	-22.37	A	1.00
9648.00	44.98	38.54	5.90	36.44	9.50	0.00	43.48	74	-30.52	P	1.00
9648.00	36.08	38.54	5.90	36.44	9.50	0.00	34.58	54	-19.42	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11b mode.
9. Antenna type : A pair of Dipole Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH1 RX				Measurement Distance at 1m Vertical polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4823.84	50.22	34.44	2.82	35.16	9.50	0.00	42.82	74	-31.18	P	1.04
4823.84	46.34	34.44	2.82	35.16	9.50	0.00	38.94	54	-15.06	A	1.04
7236.00	43.89	39.81	4.79	35.65	9.50	0.00	43.34	74	-30.66	P	1.00
7236.00	33.45	39.81	4.79	35.65	9.50	0.00	32.90	54	-21.10	A	1.00
9647.91	46.92	38.54	5.90	36.44	9.50	0.00	45.42	74	-28.58	P	1.00
9647.91	38.19	38.54	5.90	36.44	9.50	0.00	36.69	54	-17.31	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11b mode.
9. Antenna type : A pair of Dipole Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH6 RX				Measurement Distance at 1m Horizontal polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4873.94	48.71	34.77	2.73	35.20	9.50	0.00	41.51	74	-32.49	P	1.11
4873.94	44.22	34.77	2.73	35.20	9.50	0.00	37.02	54	-16.98	A	1.11
7311.10	42.54	39.78	4.82	35.64	9.50	0.00	42.00	74	-32.00	P	1.00
7311.10	32.32	39.78	4.82	35.64	9.50	0.00	31.78	54	-22.22	A	1.00
9748.00	46.46	38.53	5.90	36.60	9.50	0.00	44.79	74	-29.21	P	1.00
9748.00	38.70	38.53	5.90	36.60	9.50	0.00	37.03	54	-16.97	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11b mode.
9. Antenna type : A pair of Dipole Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH6 RX				Measurement Distance at 1m Vertical polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4873.91	52.48	34.77	2.73	35.20	9.50	0.00	45.28	74	-28.72	P	1.05
4873.91	49.24	34.77	2.73	35.20	9.50	0.00	42.04	54	-11.96	A	1.05
7311.10	42.81	39.78	4.82	35.64	9.50	0.00	42.27	74	-31.73	P	1.00
7311.10	32.41	39.78	4.82	35.64	9.50	0.00	31.87	54	-22.13	A	1.00
9747.91	46.58	38.53	5.90	36.60	9.50	0.00	44.91	74	-29.09	P	1.00
9747.91	38.85	38.53	5.90	36.60	9.50	0.00	37.18	54	-16.82	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11b mode.
9. Antenna type : A pair of Dipole Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH11 RX				Measurement Distance at 1m Horizontal polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4923.98	50.59	35.10	2.64	35.24	9.50	0.00	43.59	74	-30.41	P	1.10
4923.98	46.89	35.10	2.64	35.24	9.50	0.00	39.89	54	-14.11	A	1.10
7386.00	43.18	39.75	4.85	35.62	9.50	0.00	42.66	74	-31.34	P	1.00
7386.00	32.34	39.75	4.85	35.62	9.50	0.00	31.82	54	-22.18	A	1.00
9847.97	46.34	38.52	5.90	36.76	9.50	0.00	44.50	74	-29.50	P	1.00
9847.97	36.41	38.52	5.90	36.76	9.50	0.00	34.57	54	-19.43	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11b mode.
9. Antenna type : A pair of Dipole Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH11 RX				Measurement Distance at 1m Vertical polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4923.96	52.73	35.10	2.64	35.24	9.50	0.00	45.73	74	-28.27	P	1.08
4923.96	49.73	35.10	2.64	35.24	9.50	0.00	42.73	54	-11.27	A	1.08
7386.00	43.25	39.75	4.85	35.62	9.50	0.00	42.73	74	-31.27	P	1.00
7386.00	32.49	39.75	4.85	35.62	9.50	0.00	31.97	54	-22.03	A	1.00
9847.97	47.25	38.52	5.90	36.76	9.50	0.00	45.41	74	-28.59	P	1.00
9847.97	39.00	38.52	5.90	36.76	9.50	0.00	37.16	54	-16.84	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11b mode.
9. Antenna type : A pair of Dipole Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH1 RX				Measurement Distance at 1m Horizontal polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4823.92	47.75	34.44	2.82	35.16	9.50	0.00	40.35	74	-33.65	P	1.18
4823.92	41.96	34.44	2.82	35.16	9.50	0.00	34.56	54	-19.44	A	1.18
7236.00	42.94	39.81	4.79	35.65	9.50	0.00	42.39	74	-31.61	P	1.00
7236.00	32.44	39.81	4.79	35.65	9.50	0.00	31.89	54	-22.11	A	1.00
9647.83	47.55	38.54	5.90	36.44	9.50	0.00	46.05	74	-27.95	P	1.00
9647.83	40.21	38.54	5.90	36.44	9.50	0.00	38.71	54	-15.29	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11g mode.
9. Antenna type : A pair of Dipole Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

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Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH1 RX				Measurement Distance at 1m Vertical polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4823.97	51.31	34.44	2.82	35.16	9.50	0.00	43.91	74	-30.09	P	1.08
4823.97	48.14	34.44	2.82	35.16	9.50	0.00	40.74	54	-13.26	A	1.08
7236.00	42.49	39.81	4.79	35.65	9.50	0.00	41.94	74	-32.06	P	1.00
7236.00	32.12	39.81	4.79	35.65	9.50	0.00	31.57	54	-22.43	A	1.00
9647.89	47.75	38.54	5.90	36.44	9.50	0.00	46.25	74	-27.75	P	1.00
9647.89	40.53	38.54	5.90	36.44	9.50	0.00	39.03	54	-14.97	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11g mode.
9. Antenna type : A pair of Dipole Antenna.



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Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH6 RX				Measurement Distance at 1m Horizontal polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4873.93	48.75	34.77	2.73	35.20	9.50	0.00	41.55	74	-32.45	P	1.17
4873.93	44.54	34.77	2.73	35.20	9.50	0.00	37.34	54	-16.66	A	1.17
7311.10	43.12	39.78	4.82	35.64	9.50	0.00	42.58	74	-31.42	P	1.00
7311.10	33.02	39.78	4.82	35.64	9.50	0.00	32.48	54	-21.52	A	1.00
9748.05	46.13	38.53	5.90	36.60	9.50	0.00	44.46	74	-29.54	P	1.00
9748.05	37.21	38.53	5.90	36.60	9.50	0.00	35.54	54	-18.46	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11g mode.
9. Antenna type : A pair of Dipole Antenna.



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Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH6 RX				Measurement Distance at 1m Vertical polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4873.94	52.78	34.77	2.73	35.20	9.50	0.00	45.58	74	-28.42	P	1.03
4873.94	49.10	34.77	2.73	35.20	9.50	0.00	41.90	54	-12.10	A	1.03
7311.10	43.58	39.78	4.82	35.64	9.50	0.00	43.04	74	-30.96	P	1.00
7311.10	33.64	39.78	4.82	35.64	9.50	0.00	33.10	54	-20.90	A	1.00
9748.01	47.00	38.53	5.90	36.60	9.50	0.00	45.33	74	-28.67	P	1.00
9748.01	39.32	38.53	5.90	36.60	9.50	0.00	37.65	54	-16.35	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11g mode.
9. Antenna type : A pair of Dipole Antenna.



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FCC ID : GSSAV802G

Report No. : ER04-06-034FRF

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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH11 RX				Measurement Distance at 1m Horizontal polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4924.01	48.65	35.10	2.64	35.24	9.50	0.00	41.65	74	-32.35	P	1.17
4924.01	45.00	35.10	2.64	35.24	9.50	0.00	38.00	54	-16.00	A	1.17
7386.00	43.58	39.75	4.85	35.62	9.50	0.00	43.06	74	-30.94	P	1.00
7386.00	32.54	39.75	4.85	35.62	9.50	0.00	32.02	54	-21.98	A	1.00
9847.97	46.77	38.52	5.90	36.76	9.50	0.00	44.93	74	-29.07	P	1.00
9847.97	37.06	38.52	5.90	36.76	9.50	0.00	35.22	54	-18.78	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11g mode.
9. Antenna type : A pair of Dipole Antenna.



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FCC ID : GSSAV802G

Report No. : ER04-06-034FRF

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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH11 RX				Measurement Distance at 1m Vertical polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4923.95	52.94	35.10	2.64	35.24	9.50	0.00	45.94	74	-28.06	P	1.08
4923.95	50.11	35.10	2.64	35.24	9.50	0.00	43.11	54	-10.89	A	1.08
7386.00	42.30	39.75	4.85	35.62	9.50	0.00	41.78	74	-32.22	P	1.00
7386.00	32.79	39.75	4.85	35.62	9.50	0.00	32.27	54	-21.73	A	1.00
9847.86	47.22	38.52	5.90	36.76	9.50	0.00	45.38	74	-28.62	P	1.00
9847.86	39.89	38.52	5.90	36.76	9.50	0.00	38.05	54	-15.95	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11g mode.
9. Antenna type : A pair of Dipole Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH1 RX				Measurement Distance at 1m Horizontal polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4823.96	49.51	34.44	2.82	35.16	9.50	0.00	42.11	74	-31.89	P	1.14
4823.96	45.58	34.44	2.82	35.16	9.50	0.00	38.18	54	-15.82	A	1.14
7236.00	43.18	39.81	4.79	35.65	9.50	0.00	42.63	74	-31.37	P	1.00
7236.00	33.03	39.81	4.79	35.65	9.50	0.00	32.48	54	-21.52	A	1.00
9647.98	47.14	38.54	5.90	36.44	9.50	0.00	45.64	74	-28.36	P	1.00
9647.98	40.31	38.54	5.90	36.44	9.50	0.00	38.81	54	-15.19	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11b mode.
9. Antenna type : One Dipole and one PIFA Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH1 RX				Measurement Distance at 1m Vertical polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4824.00	53.17	34.44	2.82	35.16	9.50	0.00	45.77	74	-28.23	P	1.04
4824.00	50.17	34.44	2.82	35.16	9.50	0.00	42.77	54	-11.23	A	1.04
7236.00	43.39	39.81	4.79	35.65	9.50	0.00	42.84	74	-31.16	P	1.00
7236.00	33.07	39.81	4.79	35.65	9.50	0.00	32.52	54	-21.48	A	1.00
9647.83	46.84	38.54	5.90	36.44	9.50	0.00	45.34	74	-28.66	P	1.00
9647.83	39.53	38.54	5.90	36.44	9.50	0.00	38.03	54	-15.97	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11b mode.
9. Antenna type : One Dipole and one PIFA Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH6 RX				Measurement Distance at 1m Horizontal polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4874.01	50.86	34.77	2.73	35.20	9.50	0.00	43.66	74	-30.34	P	1.11
4874.01	46.60	34.77	2.73	35.20	9.50	0.00	39.40	54	-14.60	A	1.11
7311.04	42.87	39.78	4.82	35.64	9.50	0.00	42.33	74	-31.67	P	1.00
7311.04	32.68	39.78	4.82	35.64	9.50	0.00	32.14	54	-21.86	A	1.00
9748.02	46.73	38.53	5.90	36.60	9.50	0.00	45.06	74	-28.94	P	1.00
9748.02	39.77	38.53	5.90	36.60	9.50	0.00	38.10	54	-15.90	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11b mode.
9. Antenna type : One Dipole and one PIFA Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH6 RX				Measurement Distance at 1m Vertical polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4873.91	54.67	34.77	2.73	35.20	9.50	0.00	47.47	74	-26.53	P	1.05
4873.91	52.45	34.77	2.73	35.20	9.50	0.00	45.25	54	-8.75	A	1.05
7311.10	43.12	39.78	4.82	35.64	9.50	0.00	42.58	74	-31.42	P	1.00
7311.10	33.28	39.78	4.82	35.64	9.50	0.00	32.74	54	-21.26	A	1.00
9748.00	47.33	38.53	5.90	36.60	9.50	0.00	45.66	74	-28.34	P	1.00
9748.00	38.73	38.53	5.90	36.60	9.50	0.00	37.06	54	-16.94	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11b mode.
9. Antenna type : One Dipole and one PIFA Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH11 RX				Measurement Distance at 1m Horizontal polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4923.93	50.71	35.10	2.64	35.24	9.50	0.00	43.71	74	-30.29	P	1.10
4923.93	47.05	35.10	2.64	35.24	9.50	0.00	40.05	54	-13.95	A	1.10
7386.00	42.88	39.75	4.85	35.62	9.50	0.00	42.36	74	-31.64	P	1.00
7386.00	33.01	39.75	4.85	35.62	9.50	0.00	32.49	54	-21.51	A	1.00
9847.97	48.53	38.52	5.90	36.76	9.50	0.00	46.69	74	-27.31	P	1.00
9847.97	38.82	38.52	5.90	36.76	9.50	0.00	36.98	54	-17.02	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11b mode.
9. Antenna type : One Dipole and one PIFA Antenna.



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Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH11 RX				Measurement Distance at 1m Vertical polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4924.00	54.78	35.10	2.64	35.24	9.50	0.00	47.78	74	-26.22	P	1.08
4924.00	52.23	35.10	2.64	35.24	9.50	0.00	45.23	54	-8.77	A	1.08
7386.00	43.79	39.75	4.85	35.62	9.50	0.00	43.27	74	-30.73	P	1.00
7386.00	33.41	39.75	4.85	35.62	9.50	0.00	32.89	54	-21.11	A	1.00
9848.00	48.20	38.52	5.90	36.76	9.50	0.00	46.36	74	-27.64	P	1.00
9848.00	41.04	38.52	5.90	36.76	9.50	0.00	39.20	54	-14.80	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11b mode.
9. Antenna type : One Dipole and one PIFA Antenna..



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH1 RX				Measurement Distance at 1m Horizontal polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4823.93	50.01	34.44	2.82	35.16	9.50	0.00	42.61	74	-31.39	P	1.18
4823.93	45.40	34.44	2.82	35.16	9.50	0.00	38.00	54	-16.00	A	1.18
7236.00	43.08	39.81	4.79	35.65	9.50	0.00	42.53	74	-31.47	P	1.00
7236.00	33.25	39.81	4.79	35.65	9.50	0.00	32.70	54	-21.30	A	1.00
9647.87	46.80	38.54	5.90	36.44	9.50	0.00	45.30	74	-28.70	P	1.00
9647.87	39.57	38.54	5.90	36.44	9.50	0.00	38.07	54	-15.93	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11g mode.
9. Antenna type : One Dipole and one PIFA Antenna.



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FCC ID : GSSAV802G

Report No. : ER04-06-034FRF

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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH1 RX				Measurement Distance at 1m Vertical polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4823.91	51.46	34.44	2.82	35.16	9.50	0.00	44.06	74	-29.94	P	1.08
4823.91	48.23	34.44	2.82	35.16	9.50	0.00	40.83	54	-13.17	A	1.08
7236.00	43.84	39.81	4.79	35.65	9.50	0.00	43.29	74	-30.71	P	1.00
7236.00	32.68	39.81	4.79	35.65	9.50	0.00	32.13	54	-21.87	A	1.00
9647.84	47.67	38.54	5.90	36.44	9.50	0.00	46.17	74	-27.83	P	1.00
9647.84	39.58	38.54	5.90	36.44	9.50	0.00	38.08	54	-15.92	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11g mode.
9. Antenna type : One Dipole and one PIFA Antenna.



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FCC ID : GSSAV802G

Report No. : ER04-06-034FRF

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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH6 RX				Measurement Distance at 1m Horizontal polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4873.91	50.75	34.77	2.73	35.20	9.50	0.00	43.55	74	-30.45	P	1.17
4873.91	47.07	34.77	2.73	35.20	9.50	0.00	39.87	54	-14.13	A	1.17
7311.10	43.67	39.78	4.82	35.64	9.50	0.00	43.13	74	-30.87	P	1.00
7311.10	33.87	39.78	4.82	35.64	9.50	0.00	33.33	54	-20.67	A	1.00
9747.96	47.01	38.53	5.90	36.60	9.50	0.00	45.34	74	-28.66	P	1.00
9747.96	39.36	38.53	5.90	36.60	9.50	0.00	37.69	54	-16.31	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11g mode.
9. Antenna type : One Dipole and one PIFA Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH6 RX				Measurement Distance at 1m Vertical polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4873.97	55.08	34.77	2.73	35.20	9.50	0.00	47.88	74	-26.12	P	1.03
4873.97	52.74	34.77	2.73	35.20	9.50	0.00	45.54	54	-8.46	A	1.03
7311.10	42.74	39.78	4.82	35.64	9.50	0.00	42.20	74	-31.80	P	1.00
7311.10	33.55	39.78	4.82	35.64	9.50	0.00	33.01	54	-20.99	A	1.00
9747.93	48.00	38.53	5.90	36.60	9.50	0.00	46.33	74	-27.67	P	1.00
9747.93	39.73	38.53	5.90	36.60	9.50	0.00	38.06	54	-15.94	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11g mode.
9. Antenna type : One Dipole and one PIFA Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH11 RX				Measurement Distance at 1m Horizontal polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4923.97	49.78	35.10	2.64	35.24	9.50	0.00	42.78	74	-31.22	P	1.17
4923.97	45.99	35.10	2.64	35.24	9.50	0.00	38.99	54	-15.01	A	1.17
7386.00	42.49	39.75	4.85	35.62	9.50	0.00	41.97	74	-32.03	P	1.00
7386.00	33.19	39.75	4.85	35.62	9.50	0.00	32.67	54	-21.33	A	1.00
9847.97	46.90	38.52	5.90	36.76	9.50	0.00	45.06	74	-28.94	P	1.00
9847.97	39.08	38.52	5.90	36.76	9.50	0.00	37.24	54	-16.76	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11g mode.
9. Antenna type : One Dipole and one PIFA Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH11 RX				Measurement Distance at 1m Vertical polarized							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
4923.93	55.33	35.10	2.64	35.24	9.50	0.00	48.33	74	-25.67	P	1.08
4923.93	53.51	35.10	2.64	35.24	9.50	0.00	46.51	54	-7.49	A	1.08
7386.00	43.36	39.75	4.85	35.62	9.50	0.00	42.84	74	-31.16	P	1.00
7386.00	33.03	39.75	4.85	35.62	9.50	0.00	32.51	54	-21.49	A	1.00
9847.91	48.26	38.52	5.90	36.76	9.50	0.00	46.42	74	-27.58	P	1.00
9847.91	40.11	38.52	5.90	36.76	9.50	0.00	38.27	54	-15.73	A	1.00

1. Measurement was up to 18GHz harmonic,“---” means that the emissions level is too low to be measured.
2. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
3. Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz,VBW=10Hz
4. Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
5. The result basic equation calculation as follow :

$$\text{Level} = \text{Reading} + \text{AF} + \text{Cable} - \text{Preamp} + \text{Filter} - \text{Dist}, \text{Margin} = \text{Level} - \text{Limit}$$
6. The other emission levels were very low against the limit.
7. The test limit distance is 3M limit.
8. For Wireless 802.11g mode.
9. Antenna type : One Dipole and one PIFA Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH1 TX				Measurement Distance at 1m Horizontal polarity							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
* 2389.89	29.30	31.81	3.84	0.00	9.50	0.00	55.45	74	-18.55	P	1.00
* 2389.89	19.30	31.81	3.84	0.00	9.50	0.00	45.45	54	-8.55	A	1.00
2399.90	43.30	31.80	3.76	0.00	9.50	0.00	69.36	82.40	-13.04	P	1.00
2399.90	34.90	31.80	3.76	0.00	9.50	0.00	60.96	75.28	-14.32	A	1.00
2413.22	76.45	31.79	3.66	0.00	9.50	0.00	102.40	Fundamental Frequency		P	1.00
2413.22	69.33	31.79	3.66	0.00	9.50	0.00	95.28			A	1.00
* 4823.89	48.78	34.44	2.82	35.16	9.50	2.00	43.38	74	-30.62	P	1.04
* 4823.89	37.37	34.44	2.82	35.16	9.50	2.00	31.97	54	-22.03	A	1.04
7236.15	45.35	39.81	4.79	35.65	9.50	2.00	46.80	74	-27.20	P	1.06
7236.15	35.62	39.81	4.79	35.65	9.50	2.00	37.07	54	-16.93	A	1.06
9647.89	44.77	38.54	5.90	36.44	9.50	0.61	43.88	74	-30.12	P	1.01
9647.89	36.26	38.54	5.90	36.44	9.50	0.61	35.37	54	-18.63	A	1.01
* 12066.10	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
* 14479.32	-----	-----	-----	-----	0.00	0.68	-----	-----	-----	-----	1.00
16892.54	-----	-----	-----	-----	0.00	0.44	-----	-----	-----	-----	1.00
* 19305.76	-----	-----	-----	-----	0.00	1.97	-----	-----	-----	-----	1.00
21718.98	-----	-----	-----	-----	0.00	0.81	-----	-----	-----	-----	1.00
24132.20	-----	-----	-----	-----	0.00	2.89	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:
 $Level=Reading+AF+Cable-Preamp+Filter-Dist, Margin=Level-Limit$
- The other emission levels were very low against the limit
- The test limit distance is 3M limit.
- For Wireless 802.11b mode (11Mbps).
- Antenna type : A pair of Dipole Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH1 TX				Measurement Distance at 1m					Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height	
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)	
* 2389.89	37.10	31.81	3.84	0.00	9.50	0.00	63.25	74	-10.75	P	1.00	
* 2389.89	25.00	31.81	3.84	0.00	9.50	0.00	51.15	54	-2.85	A	1.00	
2399.90	55.10	31.80	3.76	0.00	9.50	0.00	81.16	94.23	-13.07	P	1.00	
2399.90	47.40	31.80	3.76	0.00	9.50	0.00	73.46	87.19	-13.73	A	1.00	
2413.22	88.28	31.79	3.66	0.00	9.50	0.00	114.23	Fundamental Frequency		P	1.00	
2413.22	81.24	31.79	3.66	0.00	9.50	0.00	107.19			A	1.00	
* 4823.89	56.84	34.44	2.82	35.16	9.50	2.00	51.44	74	-22.56	P	1.05	
* 4823.89	46.35	34.44	2.82	35.16	9.50	2.00	40.95	54	-13.05	A	1.05	
7235.87	51.48	39.81	4.79	35.65	9.50	2.00	52.93	74	-21.07	P	1.01	
7235.87	41.79	39.81	4.79	35.65	9.50	2.00	43.24	54	-10.76	A	1.01	
9647.89	45.84	38.54	5.90	36.44	9.50	0.61	44.95	74	-29.05	P	1.02	
9647.89	38.61	38.54	5.90	36.44	9.50	0.61	37.72	54	-16.28	A	1.02	
* 12066.10	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00	
* 14479.32	-----	-----	-----	-----	0.00	0.68	-----	-----	-----	-----	1.00	
16892.54	-----	-----	-----	-----	0.00	0.44	-----	-----	-----	-----	1.00	
* 19305.76	-----	-----	-----	-----	0.00	1.97	-----	-----	-----	-----	1.00	
21718.98	-----	-----	-----	-----	0.00	0.81	-----	-----	-----	-----	1.00	
24132.20	-----	-----	-----	-----	0.00	2.89	-----	-----	-----	-----	1.00	

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:
 $Level=Reading+AF+Cable-Preamp+Filter-Dist, Margin=Level-Limit$
- The other emission levels were very low against the limit
- The test limit distance is 3M limit.
- For Wireless 802.11b mode (11Mbps).
- Antenna type : A pair of Dipole Antenna.



Ecom Sertech Corp.

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 TEL:886-3-5918012 FAX : 886-3-5825720

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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH6 TX				Measurement Distance at 1m Horizontal polarity							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2438.30	75.06	31.76	3.47	0.00	9.50	0.00	100.79	Fundamental Frequency		P	1.00
2438.30	67.97	31.76	3.47	0.00	9.50	0.00	93.70			A	1.00
* 4873.88	50.87	34.77	2.73	35.20	9.50	1.80	45.47	74	-28.53	P	1.00
* 4873.88	45.23	34.77	2.73	35.20	9.50	1.80	39.83	54	-14.17	A	1.00
* 7311.25	45.06	39.78	4.82	35.64	9.50	2.00	46.52	74	-27.48	P	1.08
* 7311.25	33.69	39.78	4.82	35.64	9.50	2.00	35.15	54	-18.85	A	1.08
9747.89	47.61	38.53	5.90	36.60	9.50	0.55	46.49	74	-27.51	P	1.00
9747.89	40.06	38.53	5.90	36.60	9.50	0.55	38.94	54	-15.06	A	1.00
* 12191.50	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14629.80	-----	-----	-----	-----	0.00	0.60	-----	-----	-----	-----	1.00
17068.10	-----	-----	-----	-----	0.00	0.53	-----	-----	-----	-----	1.00
* 19506.40	-----	-----	-----	-----	0.00	2.21	-----	-----	-----	-----	1.00
21944.70	-----	-----	-----	-----	0.00	0.72	-----	-----	-----	-----	1.00
24383.00	-----	-----	-----	-----	0.00	2.49	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:
 $Level=Reading+AF+Cable-Preamp+Filter-Dist, Margin=Level-Limit$
- The other emission levels were very low against the limit
- The test limit distance is 3M limit.
- For Wireless 802.11b mode (11Mbps).
- Antenna type : A pair of Dipole Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH6 TX				Measurement Distance at 1m				Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2438.20	87.67	31.76	3.47	0.00	9.50	0.00	113.40	Fundamental Frequency		P	1.00
2438.20	80.60	31.76	3.47	0.00	9.50	0.00	106.33			A	1.00
* 4873.93	56.65	34.77	2.73	35.20	9.50	1.80	51.25	74	-22.75	P	1.13
* 4873.93	46.96	34.77	2.73	35.20	9.50	1.80	41.56	54	-12.44	A	1.13
* 7311.30	50.12	39.78	4.82	35.64	9.50	2.00	51.58	74	-22.42	P	1.03
* 7311.30	39.89	39.78	4.82	35.64	9.50	2.00	41.35	54	-12.65	A	1.03
9747.89	46.84	38.53	5.90	36.60	9.50	0.55	45.72	74	-28.28	P	1.05
9747.89	39.54	38.53	5.90	36.60	9.50	0.55	38.42	54	-15.58	A	1.05
* 12191.00	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14629.20	-----	-----	-----	-----	0.00	0.60	-----	-----	-----	-----	1.00
17067.40	-----	-----	-----	-----	0.00	0.53	-----	-----	-----	-----	1.00
* 19505.60	-----	-----	-----	-----	0.00	2.21	-----	-----	-----	-----	1.00
21943.80	-----	-----	-----	-----	0.00	0.72	-----	-----	-----	-----	1.00
24382.00	-----	-----	-----	-----	0.00	2.49	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:
 $Level=Reading+AF+Cable-Preamp+Filter-Dist, Margin=Level-Limit$
- The other emission levels were very low against the limit
- The test limit distance is 3M limit.
- For Wireless 802.11b mode (11Mbps).
- Antenna type : A pair of Dipole Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH11 TX				Measurement Distance at 1m				Horizontal polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2463.25	73.89	31.74	3.28	0.00	9.50	0.00	99.41	Fundamental Frequency		P	1.00
2463.25	66.85	31.74	3.28	0.00	9.50	0.00	92.37			A	1.00
* 2483.50	31.20	31.72	3.13	0.00	9.50	0.00	56.54	74	-17.46	P	1.18
* 2483.50	19.10	31.72	3.13	0.00	9.50	0.00	44.44	54	-9.56	A	1.18
* 2483.95	29.70	31.72	3.12	0.00	9.50	0.00	55.04	74	-18.96	P	1.18
* 2483.95	19.10	31.72	3.12	0.00	9.50	0.00	44.44	54	-9.56	A	1.18
* 4923.99	51.66	35.10	2.64	35.24	9.50	1.60	46.26	74	-27.74	P	1.04
* 4923.99	47.21	35.10	2.64	35.24	9.50	1.60	41.81	54	-12.19	A	1.04
* 7386.00	43.85	39.75	4.85	35.62	9.50	2.00	45.33	74	-28.67	P	1.12
* 7386.00	33.29	39.75	4.85	35.62	9.50	2.00	34.77	54	-19.23	A	1.12
9847.86	45.41	38.52	5.90	36.76	9.50	0.49	44.06	74	-29.94	P	1.00
9847.86	37.75	38.52	5.90	36.76	9.50	0.49	36.40	54	-17.60	A	1.00
* 12316.25	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14779.50	-----	-----	-----	-----	0.00	0.48	-----	-----	-----	-----	1.00
17242.75	-----	-----	-----	-----	0.00	0.60	-----	-----	-----	-----	1.00
* 19706.00	-----	-----	-----	-----	0.00	2.41	-----	-----	-----	-----	1.00
* 22169.25	-----	-----	-----	-----	0.00	0.70	-----	-----	-----	-----	1.00
24632.50	-----	-----	-----	-----	0.00	2.11	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:
 $Level=Reading+AF+Cable-Preamp+Filter-Dist, Margin=Level-Limit$
- The other emission levels were very low against the limit
- The test limit distance is 3M limit.
- For Wireless 802.11b mode (11Mbps).
- Antenna type : A pair of Dipole Antenna.



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 TEL:886-3-5918012 FAX : 886-3-5825720

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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH11 TX				Measurement Distance at 1m				Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2463.30	87.52	31.74	3.28	0.00	9.50	0.00	113.04	Fundamental Frequency		P	1.00
2463.30	80.45	31.74	3.28	0.00	9.50	0.00	105.97			A	1.00
* 2483.50	34.70	31.72	3.13	0.00	9.50	0.00	60.04	74	-13.96	P	1.01
* 2483.50	21.90	31.72	3.13	0.00	9.50	0.00	47.24	54	-6.76	A	1.01
* 2483.95	35.50	31.72	3.12	0.00	9.50	0.00	60.84	74	-13.16	P	1.01
* 2483.95	20.80	31.72	3.12	0.00	9.50	0.00	46.14	54	-7.86	A	1.01
* 4923.94	55.99	35.10	2.64	35.24	9.50	1.60	50.59	74	-23.41	P	1.00
* 4923.94	46.54	35.10	2.64	35.24	9.50	1.60	41.14	54	-12.86	A	1.00
* 7384.84	45.85	39.75	4.85	35.62	9.50	2.00	47.33	74	-26.67	P	1.00
* 7384.84	35.38	39.75	4.85	35.62	9.50	2.00	36.86	54	-17.14	A	1.00
9848.16	46.39	38.52	5.90	36.76	9.50	0.49	45.04	74	-28.96	P	1.00
9848.16	37.75	38.52	5.90	36.76	9.50	0.49	36.40	54	-17.60	A	1.00
* 12316.50	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14779.80	-----	-----	-----	-----	0.00	0.48	-----	-----	-----	-----	1.00
17243.10	-----	-----	-----	-----	0.00	0.60	-----	-----	-----	-----	1.00
* 19706.40	-----	-----	-----	-----	0.00	2.41	-----	-----	-----	-----	1.00
* 22169.70	-----	-----	-----	-----	0.00	0.70	-----	-----	-----	-----	1.00
24633.00	-----	-----	-----	-----	0.00	2.11	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:
 $Level=Reading+AF+Cable-Preamp+Filter-Dist, Margin=Level-Limit$
- The other emission levels were very low against the limit
- The test limit distance is 3M limit.
- For Wireless 802.11b mode (11Mbps).
- Antenna type : A pair of Dipole Antenna.



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 TEL:886-3-5918012 FAX : 886-3-5825720

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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH1 TX				Measurement Distance at 1m Horizontal polarity							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
* 2389.93	29.40	31.81	3.84	0.00	9.50	0.00	55.55	74	-18.45	P	1.23
* 2389.93	18.70	31.81	3.84	0.00	9.50	0.00	44.85	54	-9.15	A	1.23
2399.90	42.70	31.80	3.76	0.00	9.50	0.00	68.76	74.74	-5.98	P	1.22
2399.90	27.88	31.80	3.76	0.00	9.50	0.00	53.94	66.57	-12.63	A	1.22
2410.47	68.77	31.79	3.68	0.00	9.50	0.00	94.74	Fundamental Frequency		P	1.00
2410.47	60.60	31.79	3.68	0.00	9.50	0.00	86.57			A	1.00
* 4824.02	50.31	34.44	2.82	35.16	9.50	2.00	44.91	74	-29.09	P	1.00
* 4824.02	43.48	34.44	2.82	35.16	9.50	2.00	38.08	54	-15.92	A	1.00
7235.39	44.37	39.81	4.79	35.65	9.50	2.00	45.82	74	-28.18	P	1.00
7235.39	33.94	39.81	4.79	35.65	9.50	2.00	35.39	54	-18.61	A	1.00
9647.89	45.29	38.54	5.90	36.44	9.50	0.61	44.40	74	-29.60	P	1.00
9647.89	37.09	38.54	5.90	36.44	9.50	0.61	36.20	54	-17.80	A	1.00
* 12052.35	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14462.82	-----	-----	-----	-----	0.00	0.66	-----	-----	-----	-----	1.00
16873.29	-----	-----	-----	-----	0.00	0.42	-----	-----	-----	-----	1.00
* 19283.76	-----	-----	-----	-----	0.00	1.94	-----	-----	-----	-----	1.00
21694.23	-----	-----	-----	-----	0.00	0.82	-----	-----	-----	-----	1.00
24104.70	-----	-----	-----	-----	0.00	2.93	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:

$$\text{Level}=\text{Reading}+\text{AF}+\text{Cable}-\text{Preamp}+\text{Filter}-\text{Dist}, \text{Margin}=\text{Level}-\text{Limit}$$
- The other emission levels were very low against the limit
- The test limit distance is 3M limit.
- For Wireless 802.11g mode (6Mbps).
- Antenna type : A pair of Dipole Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH1 TX				Measurement Distance at 1m					Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height	
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)	
* 2389.93	38.30	31.81	3.84	0.00	9.50	0.00	64.45	74	-9.55	P	1.20	
* 2389.93	25.10	31.81	3.84	0.00	9.50	0.00	51.25	54	-2.75	A	1.20	
2399.90	54.40	31.80	3.76	0.00	9.50	0.00	80.46	89.12	-8.66	P	1.23	
2399.90	42.70	31.80	3.76	0.00	9.50	0.00	68.76	80.88	-12.12	A	1.23	
2410.29	83.15	31.79	3.68	0.00	9.50	0.00	109.12	Fundamental Frequency		P	1.00	
2410.29	74.91	31.79	3.68	0.00	9.50	0.00	100.88			A	1.00	
* 4824.05	56.41	34.44	2.82	35.16	9.50	2.00	51.01	74	-22.99	P	1.00	
* 4824.05	47.16	34.44	2.82	35.16	9.50	2.00	41.76	54	-12.24	A	1.00	
7231.09	56.61	39.81	4.79	35.65	9.50	2.00	58.06	74	-15.94	P	1.00	
7231.09	44.69	39.81	4.79	35.65	9.50	2.00	46.14	54	-7.86	A	1.00	
9647.89	45.05	38.54	5.90	36.44	9.50	0.61	44.16	74	-29.84	P	1.00	
9647.89	37.00	38.54	5.90	36.44	9.50	0.61	36.11	54	-17.89	A	1.00	
* 12051.45	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00	
14461.74	-----	-----	-----	-----	0.00	0.65	-----	-----	-----	-----	1.00	
16872.03	-----	-----	-----	-----	0.00	0.42	-----	-----	-----	-----	1.00	
* 19282.32	-----	-----	-----	-----	0.00	1.94	-----	-----	-----	-----	1.00	
21692.61	-----	-----	-----	-----	0.00	0.82	-----	-----	-----	-----	1.00	
24102.90	-----	-----	-----	-----	0.00	2.94	-----	-----	-----	-----	1.00	

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:

$$\text{Level}=\text{Reading}+\text{AF}+\text{Cable}-\text{Preamp}+\text{Filter}-\text{Dist}, \text{Margin}=\text{Level}-\text{Limit}$$
- The other emission levels were very low against the limit
- The test limit distance is 3M limit.
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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH6 TX				Measurement Distance at 1m Horizontal polarity							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2431.56	68.71	31.77	3.52	0.00	9.50	0.00	94.50	Fundamental Frequency		P	1.00
2431.56	60.60	31.77	3.52	0.00	9.50	0.00	86.39			A	1.00
* 4873.94	51.58	34.77	2.73	35.20	9.50	1.80	46.18	74	-27.82	P	1.00
* 4873.94	45.83	34.77	2.73	35.20	9.50	1.80	40.43	54	-13.57	A	1.00
* 7311.00	46.01	39.78	4.82	35.64	9.50	2.00	47.47	74	-26.53	P	1.00
* 7311.00	36.50	39.78	4.82	35.64	9.50	2.00	37.96	54	-16.04	A	1.00
9747.85	46.05	38.53	5.90	36.60	9.50	0.55	44.93	74	-29.07	P	1.00
9747.85	38.42	38.53	5.90	36.60	9.50	0.55	37.30	54	-16.70	A	1.00
* 12157.80	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14589.36	-----	-----	-----	-----	0.00	0.63	-----	-----	-----	-----	1.00
17020.92	-----	-----	-----	-----	0.00	0.51	-----	-----	-----	-----	1.00
* 19452.48	-----	-----	-----	-----	0.00	2.14	-----	-----	-----	-----	1.00
21884.04	-----	-----	-----	-----	0.00	0.75	-----	-----	-----	-----	1.00
24315.60	-----	-----	-----	-----	0.00	2.60	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:
 $Level=Reading+AF+Cable-Preamp+Filter-Dist, Margin=Level-Limit$
- The other emission levels were very low against the limit
- The test limit distance is 3M limit.
- For Wireless 802.11g mode (6Mbps).
- Antenna type : A pair of Dipole Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH6 TX				Measurement Distance at 1m				Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2431.48	82.74	31.77	3.52	0.00	9.50	0.00	108.53	Fundamental Frequency		P	1.00
2431.48	74.56	31.77	3.52	0.00	9.50	0.00	100.35			A	1.00
* 4873.99	56.42	34.77	2.73	35.20	9.50	1.80	51.02	74	-22.98	P	1.00
* 4873.99	48.18	34.77	2.73	35.20	9.50	1.80	42.78	54	-11.22	A	1.00
* 7305.83	54.20	39.78	4.82	35.64	9.50	2.00	55.66	74	-18.34	P	1.00
* 7305.83	43.46	39.78	4.82	35.64	9.50	2.00	44.92	54	-9.08	A	1.00
9747.89	45.31	38.53	5.90	36.60	9.50	0.55	44.19	74	-29.81	P	1.00
9747.89	38.58	38.53	5.90	36.60	9.50	0.55	37.46	54	-16.54	A	1.00
* 12157.40	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14588.88	-----	-----	-----	-----	0.00	0.63	-----	-----	-----	-----	1.00
17020.36	-----	-----	-----	-----	0.00	0.51	-----	-----	-----	-----	1.00
* 19451.84	-----	-----	-----	-----	0.00	2.14	-----	-----	-----	-----	1.00
21883.32	-----	-----	-----	-----	0.00	0.75	-----	-----	-----	-----	1.00
24314.80	-----	-----	-----	-----	0.00	2.60	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:
 $Level=Reading+AF+Cable-Preamp+Filter-Dist, Margin=Level-Limit$
- The other emission levels were very low against the limit
- The test limit distance is 3M limit.
- For Wireless 802.11g mode (6Mbps).
- Antenna type : A pair of Dipole Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH11 TX				Measurement Distance at 1m Horizontal polarity							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2464.26	69.41	31.74	3.27	0.00	9.50	0.00	94.92	Fundamental Frequency		P	1.00
2464.26	60.92	31.74	3.27	0.00	9.50	0.00	86.43			A	1.00
* 2483.50	30.60	31.72	3.13	0.00	9.50	0.00	55.94	74	-18.06	P	1.18
* 2483.50	19.50	31.72	3.13	0.00	9.50	0.00	44.84	54	-9.16	A	1.18
* 2483.95	30.20	31.72	3.12	0.00	9.50	0.00	55.54	74	-18.46	P	1.20
* 2483.95	19.30	31.72	3.12	0.00	9.50	0.00	44.64	54	-9.36	A	1.20
* 4923.96	51.87	35.10	2.64	35.24	9.50	1.60	46.47	74	-27.53	P	1.00
* 4923.96	46.77	35.10	2.64	35.24	9.50	1.60	41.37	54	-12.63	A	1.00
* 7385.84	44.77	39.75	4.85	35.62	9.50	2.00	46.25	74	-27.75	P	1.00
* 7385.84	33.70	39.75	4.85	35.62	9.50	2.00	35.18	54	-18.82	A	1.00
9847.81	46.38	38.52	5.90	36.76	9.50	0.49	45.03	74	-28.97	P	1.00
9847.81	38.40	38.52	5.90	36.76	9.50	0.49	37.05	54	-16.95	A	1.00
* 12321.30	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14785.56	-----	-----	-----	-----	0.00	0.47	-----	-----	-----	-----	1.00
17249.82	-----	-----	-----	-----	0.00	0.60	-----	-----	-----	-----	1.00
* 19714.08	-----	-----	-----	-----	0.00	2.41	-----	-----	-----	-----	1.00
* 22178.34	-----	-----	-----	-----	0.00	0.70	-----	-----	-----	-----	1.00
24642.60	-----	-----	-----	-----	0.00	2.10	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:
 $Level=Reading+AF+Cable-Preamp+Filter-Dist, Margin=Level-Limit$
- The other emission levels were very low against the limit
- The test limit distance is 3M limit.
- For Wireless 802.11g mode (6Mbps).
- Antenna type : A pair of Dipole Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH11 TX				Measurement Distance at 1m				Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2464.25	84.37	31.74	3.27	0.00	9.50	0.00	109.88	Fundamental Frequency		P	1.00
2464.25	76.29	31.74	3.27	0.00	9.50	0.00	101.80			A	1.00
* 2483.50	41.00	31.72	3.13	0.00	9.50	0.00	66.34	74	-7.66	P	1.01
* 2483.50	27.60	31.72	3.13	0.00	9.50	0.00	52.94	54	-1.06	A	1.01
* 2483.95	40.00	31.72	3.12	0.00	9.50	0.00	65.34	74	-8.66	P	1.14
* 2483.95	26.40	31.72	3.12	0.00	9.50	0.00	51.74	54	-2.26	A	1.14
* 4924.00	57.08	35.10	2.64	35.24	9.50	1.60	51.68	74	-22.32	P	1.00
* 4924.00	53.25	35.10	2.64	35.24	9.50	1.60	47.85	54	-6.15	A	1.00
* 7392.31	50.32	39.74	4.86	35.62	9.50	2.00	51.80	74	-22.20	P	1.00
* 7392.31	40.04	39.74	4.86	35.62	9.50	2.00	41.52	54	-12.48	A	1.00
9847.93	45.02	38.52	5.90	36.76	9.50	0.49	43.67	74	-30.33	P	1.00
9847.93	36.43	38.52	5.90	36.76	9.50	0.49	35.08	54	-18.92	A	1.00
* 12321.25	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14785.50	-----	-----	-----	-----	0.00	0.47	-----	-----	-----	-----	1.00
17249.75	-----	-----	-----	-----	0.00	0.60	-----	-----	-----	-----	1.00
* 19714.00	-----	-----	-----	-----	0.00	2.41	-----	-----	-----	-----	1.00
* 22178.25	-----	-----	-----	-----	0.00	0.70	-----	-----	-----	-----	1.00
24642.50	-----	-----	-----	-----	0.00	2.10	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:
 $Level = Reading + AF + Cable - Preamp + Filter - Dist$, $Margin = Level - Limit$
- The other emission levels were very low against the limit
- The test data marked in gray background means the EUT emission data is located in the margin uncertainty range of emission limits.
- The test limit distance is 3M limit.
- For Wireless 802.11g mode (6Mbps).
- Antenna type : A pair of Dipole Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH1 TX				Measurement Distance at 1m Horizontal polarity							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
* 2389.89	29.00	31.81	3.84	0.00	9.50	0.00	55.15	74	-18.85	P	1.00
* 2389.89	19.10	31.81	3.84	0.00	9.50	0.00	45.25	54	-8.75	A	1.00
2399.90	40.90	31.80	3.76	0.00	9.50	0.00	66.96	79.98	-13.01	P	1.00
2399.90	32.30	31.80	3.76	0.00	9.50	0.00	58.36	73.39	-15.02	A	1.00
2413.30	74.03	31.79	3.66	0.00	9.50	0.00	99.98	Fundamental Frequency		P	1.00
2413.30	67.44	31.79	3.66	0.00	9.50	0.00	93.39			A	1.00
* 4823.95	50.51	34.44	2.82	35.16	9.50	2.00	45.11	74	-28.89	P	1.04
* 4823.95	44.76	34.44	2.82	35.16	9.50	2.00	39.36	54	-14.64	A	1.04
7235.72	46.25	39.81	4.79	35.65	9.50	2.00	47.70	74	-26.30	P	1.06
7235.72	36.20	39.81	4.79	35.65	9.50	2.00	37.65	54	-16.35	A	1.06
9674.83	45.07	38.53	5.90	36.48	9.50	0.60	44.12	74	-29.88	P	1.01
9674.83	36.53	38.53	5.90	36.48	9.50	0.60	35.58	54	-18.42	A	1.01
* 12066.50	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
* 14479.80	-----	-----	-----	-----	0.00	0.68	-----	-----	-----	-----	1.00
16893.10	-----	-----	-----	-----	0.00	0.44	-----	-----	-----	-----	1.00
* 19306.40	-----	-----	-----	-----	0.00	1.97	-----	-----	-----	-----	1.00
21719.70	-----	-----	-----	-----	0.00	0.81	-----	-----	-----	-----	1.00
24133.00	-----	-----	-----	-----	0.00	2.89	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:
 $Level=Reading+AF+Cable-Preamp+Filter-Dist, Margin=Level-Limit$
- The other emission levels were very low against the limit
- The test limit distance is 3M limit.
- For Wireless 802.11b mode (11Mbps).
- Antenna type : One Dipole and one PIFA Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH1 TX				Measurement Distance at 1m					Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height	
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)	
* 2389.89	36.30	31.81	3.84	0.00	9.50	0.00	62.45	74	-11.55	P	1.00	
* 2389.89	25.20	31.81	3.84	0.00	9.50	0.00	51.35	54	-2.65	A	1.00	
2399.90	54.10	31.80	3.76	0.00	9.50	0.00	80.16	92.51	-12.35	P	1.00	
2399.90	46.20	31.80	3.76	0.00	9.50	0.00	72.26	85.38	-13.12	A	1.00	
2413.20	86.56	31.79	3.66	0.00	9.50	0.00	112.51	Fundamental Frequency		P	1.00	
2413.20	79.43	31.79	3.66	0.00	9.50	0.00	105.38			A	1.00	
* 4823.95	54.31	34.44	2.82	35.16	9.50	2.00	48.91	74	-25.09	P	1.05	
* 4823.95	43.28	34.44	2.82	35.16	9.50	2.00	37.88	54	-16.12	A	1.05	
7236.94	50.36	39.81	4.79	35.65	9.50	2.00	51.81	74	-22.19	P	1.01	
7236.94	40.86	39.81	4.79	35.65	9.50	2.00	42.31	54	-11.69	A	1.01	
9647.83	45.85	38.54	5.90	36.44	9.50	0.61	44.96	74	-29.04	P	1.02	
9647.83	38.65	38.54	5.90	36.44	9.50	0.61	37.76	54	-16.24	A	1.02	
* 12066.00	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00	
* 14479.20	-----	-----	-----	-----	0.00	0.68	-----	-----	-----	-----	1.00	
16892.40	-----	-----	-----	-----	0.00	0.44	-----	-----	-----	-----	1.00	
* 19305.60	-----	-----	-----	-----	0.00	1.97	-----	-----	-----	-----	1.00	
21718.80	-----	-----	-----	-----	0.00	0.81	-----	-----	-----	-----	1.00	
24132.00	-----	-----	-----	-----	0.00	2.89	-----	-----	-----	-----	1.00	

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:
 $Level=Reading+AF+Cable-Preamp+Filter-Dist, Margin=Level-Limit$
- The other emission levels were very low against the limit
- The test limit distance is 3M limit.
- For Wireless 802.11b mode (11Mbps).
- Antenna type : One Dipole and one PIFA Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH6 TX				Measurement Distance at 1m Horizontal polarity							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2437.55	76.32	31.76	3.47	0.00	9.50	0.00	102.06	Fundamental Frequency		P	1.00
2437.55	68.02	31.76	3.47	0.00	9.50	0.00	93.76			A	1.00
* 4873.84	50.97	34.77	2.73	35.20	9.50	1.80	45.57	74	-28.43	P	1.00
* 4873.84	45.35	34.77	2.73	35.20	9.50	1.80	39.95	54	-14.05	A	1.00
* 7312.51	46.25	39.77	4.83	35.64	9.50	2.00	47.71	74	-26.29	P	1.08
* 7312.51	34.25	39.77	4.83	35.64	9.50	2.00	35.71	54	-18.29	A	1.08
9747.89	48.12	38.53	5.90	36.60	9.50	0.55	47.00	74	-27.00	P	1.00
9747.89	40.65	38.53	5.90	36.60	9.50	0.55	39.53	54	-14.47	A	1.00
* 12187.75	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14625.30	-----	-----	-----	-----	0.00	0.60	-----	-----	-----	-----	1.00
17062.85	-----	-----	-----	-----	0.00	0.53	-----	-----	-----	-----	1.00
* 19500.40	-----	-----	-----	-----	0.00	2.20	-----	-----	-----	-----	1.00
21937.95	-----	-----	-----	-----	0.00	0.72	-----	-----	-----	-----	1.00
24375.50	-----	-----	-----	-----	0.00	2.50	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:
 $Level=Reading+AF+Cable-Preamp+Filter-Dist, Margin=Level-Limit$
- The other emission levels were very low against the limit
- The test limit distance is 3M limit.
- For Wireless 802.11b mode (11Mbps).
- Antenna type : One Dipole and one PIFA Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH6 TX				Measurement Distance at 1m				Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2438.20	87.68	31.76	3.47	0.00	9.50	0.00	113.41	Fundamental Frequency		P	1.00
2438.20	80.65	31.76	3.47	0.00	9.50	0.00	106.38			A	1.00
* 4873.93	57.02	34.77	2.73	35.20	9.50	1.80	51.62	74	-22.38	P	1.13
* 4873.93	47.25	34.77	2.73	35.20	9.50	1.80	41.85	54	-12.15	A	1.13
* 7311.00	50.36	39.78	4.82	35.64	9.50	2.00	51.82	74	-22.18	P	1.03
* 7311.00	39.46	39.78	4.82	35.64	9.50	2.00	40.92	54	-13.08	A	1.03
9747.90	47.23	38.53	5.90	36.60	9.50	0.55	46.11	74	-27.89	P	1.05
9747.90	39.65	38.53	5.90	36.60	9.50	0.55	38.53	54	-15.47	A	1.05
* 12191.00	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14629.20	-----	-----	-----	-----	0.00	0.60	-----	-----	-----	-----	1.00
17067.40	-----	-----	-----	-----	0.00	0.53	-----	-----	-----	-----	1.00
* 19505.60	-----	-----	-----	-----	0.00	2.21	-----	-----	-----	-----	1.00
21943.80	-----	-----	-----	-----	0.00	0.72	-----	-----	-----	-----	1.00
24382.00	-----	-----	-----	-----	0.00	2.49	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:
 $Level=Reading+AF+Cable-Preamp+Filter-Dist, Margin=Level-Limit$
- The other emission levels were very low against the limit
- The test limit distance is 3M limit.
- For Wireless 802.11b mode (11Mbps).
- Antenna type : One Dipole and one PIFA Antenna.



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FCC ID : GSSAV802G

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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH11 TX				Measurement Distance at 1m				Horizontal polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2463.25	75.12	31.74	3.28	0.00	9.50	0.00	100.64	Fundamental Frequency		P	1.00
2463.25	67.86	31.74	3.28	0.00	9.50	0.00	93.38			A	1.00
* 2483.50	29.70	31.72	3.13	0.00	9.50	0.00	55.04	74	-18.96	P	1.18
* 2483.50	19.20	31.72	3.13	0.00	9.50	0.00	44.54	54	-9.46	A	1.18
* 2483.95	30.30	31.72	3.12	0.00	9.50	0.00	55.64	74	-18.36	P	1.18
* 2483.95	19.10	31.72	3.12	0.00	9.50	0.00	44.44	54	-9.56	A	1.18
* 4923.88	51.93	35.10	2.64	35.24	9.50	1.60	46.53	74	-27.47	P	1.04
* 4923.88	47.38	35.10	2.64	35.24	9.50	1.60	41.98	54	-12.02	A	1.04
* 7386.68	44.65	39.75	4.85	35.62	9.50	2.00	46.13	74	-27.87	P	1.12
* 7386.68	34.02	39.75	4.85	35.62	9.50	2.00	35.50	54	-18.50	A	1.12
9848.01	46.31	38.52	5.90	36.76	9.50	0.49	44.96	74	-29.04	P	1.00
9848.01	37.59	38.52	5.90	36.76	9.50	0.49	36.24	54	-17.76	A	1.00
* 12316.25	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14779.50	-----	-----	-----	-----	0.00	0.48	-----	-----	-----	-----	1.00
17242.75	-----	-----	-----	-----	0.00	0.60	-----	-----	-----	-----	1.00
* 19706.00	-----	-----	-----	-----	0.00	2.41	-----	-----	-----	-----	1.00
* 22169.25	-----	-----	-----	-----	0.00	0.70	-----	-----	-----	-----	1.00
24632.50	-----	-----	-----	-----	0.00	2.11	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:
 $Level=Reading+AF+Cable-Preamp+Filter-Dist, Margin=Level-Limit$
- The other emission levels were very low against the limit
- The test limit distance is 3M limit.
- For Wireless 802.11b mode (11Mbps).
- Antenna type : One Dipole and one PIFA Antenna.



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 TEL:886-3-5918012 FAX : 886-3-5825720

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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH11 TX				Measurement Distance at 1m				Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2463.28	87.66	31.74	3.28	0.00	9.50	0.00	113.18	Fundamental Frequency		P	1.00
2463.28	80.56	31.74	3.28	0.00	9.50	0.00	106.08			A	1.00
* 2483.50	35.70	31.72	3.13	0.00	9.50	0.00	61.04	74	-12.96	P	1.01
* 2483.50	22.60	31.72	3.13	0.00	9.50	0.00	47.94	54	-6.06	A	1.01
* 2483.95	33.90	31.72	3.12	0.00	9.50	0.00	59.24	74	-14.76	P	1.01
* 2483.95	21.30	31.72	3.12	0.00	9.50	0.00	46.64	54	-7.36	A	1.01
* 4923.84	55.22	35.10	2.64	35.24	9.50	1.60	49.82	74	-24.18	P	1.00
* 4923.84	48.20	35.10	2.64	35.24	9.50	1.60	42.80	54	-11.20	A	1.00
* 7386.16	46.05	39.75	4.85	35.62	9.50	2.00	47.53	74	-26.47	P	1.00
* 7386.16	35.89	39.75	4.85	35.62	9.50	2.00	37.37	54	-16.63	A	1.00
9847.88	46.85	38.52	5.90	36.76	9.50	0.49	45.50	74	-28.50	P	1.00
9847.88	38.02	38.52	5.90	36.76	9.50	0.49	36.67	54	-17.33	A	1.00
* 12316.40	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14779.68	-----	-----	-----	-----	0.00	0.48	-----	-----	-----	-----	1.00
17242.96	-----	-----	-----	-----	0.00	0.60	-----	-----	-----	-----	1.00
* 19706.24	-----	-----	-----	-----	0.00	2.41	-----	-----	-----	-----	1.00
* 22169.52	-----	-----	-----	-----	0.00	0.70	-----	-----	-----	-----	1.00
24632.80	-----	-----	-----	-----	0.00	2.11	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:
 $Level=Reading+AF+Cable-Preamp+Filter-Dist, Margin=Level-Limit$
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 TEL:886-3-5918012 FAX : 886-3-5825720

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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH1 TX				Measurement Distance at 1m Horizontal polarity							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
* 2389.93	29.10	31.81	3.84	0.00	9.50	0.00	55.25	74	-18.75	P	1.23
* 2389.93	19.00	31.81	3.84	0.00	9.50	0.00	45.15	54	-8.85	A	1.23
2399.90	38.70	31.80	3.76	0.00	9.50	0.00	64.76	74.85	-10.09	P	1.22
2399.90	27.10	31.80	3.76	0.00	9.50	0.00	53.16	66.64	-13.48	A	1.22
2406.58	68.85	31.79	3.71	0.00	9.50	0.00	94.85	Fundamental Frequency		P	1.00
2406.58	60.64	31.79	3.71	0.00	9.50	0.00	86.64			A	1.00
* 4823.95	50.11	34.44	2.82	35.16	9.50	2.00	44.71	74	-29.29	P	1.00
* 4823.95	45.25	34.44	2.82	35.16	9.50	2.00	39.85	54	-14.15	A	1.00
7236.13	45.37	39.81	4.79	35.65	9.50	2.00	46.82	74	-27.18	P	1.00
7236.13	33.64	39.81	4.79	35.65	9.50	2.00	35.09	54	-18.91	A	1.00
9647.87	45.69	38.54	5.90	36.44	9.50	0.61	44.80	74	-29.20	P	1.00
9647.87	36.09	38.54	5.90	36.44	9.50	0.61	35.20	54	-18.80	A	1.00
* 12032.90	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14439.48	-----	-----	-----	-----	0.00	0.63	-----	-----	-----	-----	1.00
16846.06	-----	-----	-----	-----	0.00	0.41	-----	-----	-----	-----	1.00
* 19252.64	-----	-----	-----	-----	0.00	1.90	-----	-----	-----	-----	1.00
21659.22	-----	-----	-----	-----	0.00	0.84	-----	-----	-----	-----	1.00
24065.80	-----	-----	-----	-----	0.00	2.99	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:
 $Level=Reading+AF+Cable-Preamp+Filter-Dist, Margin=Level-Limit$
- The other emission levels were very low against the limit
- The test limit distance is 3M limit.
- For Wireless 802.11g mode (6Mbps).
- Antenna type : One Dipole and one PIFA Antenna.



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 TEL:886-3-5918012 FAX : 886-3-5825720

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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH1 TX				Measurement Distance at 1m					Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height	
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)	
* 2389.93	37.30	31.81	3.84	0.00	9.50	0.00	63.45	74	-10.55	P	1.20	
* 2389.93	26.00	31.81	3.84	0.00	9.50	0.00	52.15	54	-1.85	A	1.20	
2399.90	53.00	31.80	3.76	0.00	9.50	0.00	79.06	87.88	-8.82	P	1.23	
2399.90	41.00	31.80	3.76	0.00	9.50	0.00	67.06	79.56	-12.50	A	1.23	
2414.20	81.94	31.79	3.65	0.00	9.50	0.00	107.88	Fundamental Frequency		P	1.00	
2414.20	73.62	31.79	3.65	0.00	9.50	0.00	99.56			A	1.00	
* 4823.95	51.04	34.44	2.82	35.16	9.50	2.00	45.64	74	-28.36	P	1.00	
* 4823.95	47.01	34.44	2.82	35.16	9.50	2.00	41.61	54	-12.39	A	1.00	
7236.29	56.23	39.81	4.79	35.65	9.50	2.00	57.68	74	-16.32	P	1.00	
7236.29	45.77	39.81	4.79	35.65	9.50	2.00	47.22	54	-6.78	A	1.00	
9647.87	44.47	38.54	5.90	36.44	9.50	0.61	43.58	74	-30.42	P	1.00	
9647.87	37.23	38.54	5.90	36.44	9.50	0.61	36.34	54	-17.66	A	1.00	
* 12071.00	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00	
* 14485.20	-----	-----	-----	-----	0.00	0.68	-----	-----	-----	-----	1.00	
16899.40	-----	-----	-----	-----	0.00	0.44	-----	-----	-----	-----	1.00	
* 19313.60	-----	-----	-----	-----	0.00	1.98	-----	-----	-----	-----	1.00	
21727.80	-----	-----	-----	-----	0.00	0.81	-----	-----	-----	-----	1.00	
24142.00	-----	-----	-----	-----	0.00	2.87	-----	-----	-----	-----	1.00	

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:
 $Level=Reading+AF+Cable-Preamp+Filter-Dist, Margin=Level-Limit$
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- The test limit distance is 3M limit.
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 TEL:886-3-5918012 FAX : 886-3-5825720

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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH6 TX				Measurement Distance at 1m Horizontal polarity							
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2439.30	68.35	31.76	3.46	0.00	9.50	0.00	94.07	Fundamental Frequency		P	1.00
2439.30	62.35	31.76	3.46	0.00	9.50	0.00	88.07			A	1.00
* 4873.76	55.32	34.77	2.73	35.20	9.50	1.80	49.92	74	-24.08	P	1.00
* 4873.76	46.35	34.77	2.73	35.20	9.50	1.80	40.95	54	-13.05	A	1.00
* 7311.82	47.53	39.78	4.82	35.64	9.50	2.00	48.99	74	-25.01	P	1.00
* 7311.82	36.02	39.78	4.82	35.64	9.50	2.00	37.48	54	-16.52	A	1.00
9747.87	47.25	38.53	5.90	36.60	9.50	0.55	46.13	74	-27.87	P	1.00
9747.87	38.02	38.53	5.90	36.60	9.50	0.55	36.90	54	-17.10	A	1.00
* 12196.50	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14635.80	-----	-----	-----	-----	0.00	0.59	-----	-----	-----	-----	1.00
17075.10	-----	-----	-----	-----	0.00	0.53	-----	-----	-----	-----	1.00
* 19514.40	-----	-----	-----	-----	0.00	2.21	-----	-----	-----	-----	1.00
21953.70	-----	-----	-----	-----	0.00	0.72	-----	-----	-----	-----	1.00
24393.00	-----	-----	-----	-----	0.00	2.47	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:
 $Level=Reading+AF+Cable-Preamp+Filter-Dist, Margin=Level-Limit$
- The other emission levels were very low against the limit
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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH6 TX				Measurement Distance at 1m				Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2431.56	82.74	31.77	3.52	0.00	9.50	0.00	108.53	Fundamental Frequency		P	1.00
2431.56	74.56	31.77	3.52	0.00	9.50	0.00	100.35			A	1.00
* 4874.08	55.71	34.77	2.73	35.20	9.50	1.80	50.31	74	-23.69	P	1.00
* 4874.08	46.30	34.77	2.73	35.20	9.50	1.80	40.90	54	-13.10	A	1.00
* 7311.39	55.01	39.78	4.82	35.64	9.50	2.00	56.47	74	-17.53	P	1.00
* 7311.39	44.62	39.78	4.82	35.64	9.50	2.00	46.08	54	-7.92	A	1.00
9747.87	46.23	38.53	5.90	36.60	9.50	0.55	45.11	74	-28.89	P	1.00
9747.87	39.65	38.53	5.90	36.60	9.50	0.55	38.53	54	-15.47	A	1.00
* 12157.80	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14589.36	-----	-----	-----	-----	0.00	0.63	-----	-----	-----	-----	1.00
17020.92	-----	-----	-----	-----	0.00	0.51	-----	-----	-----	-----	1.00
* 19452.48	-----	-----	-----	-----	0.00	2.14	-----	-----	-----	-----	1.00
21884.04	-----	-----	-----	-----	0.00	0.75	-----	-----	-----	-----	1.00
24315.60	-----	-----	-----	-----	0.00	2.60	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:
 $Level=Reading+AF+Cable-Preamp+Filter-Dist, Margin=Level-Limit$
- The other emission levels were very low against the limit
- The test limit distance is 3M limit.
- For Wireless 802.11g mode (6Mbps).
- Antenna type : One Dipole and one PIFA Antenna.



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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH11 TX				Measurement Distance at 1m				Horizontal polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2464.20	71.33	31.74	3.27	0.00	9.50	0.00	96.84	Fundamental Frequency		P	1.00
2464.20	63.07	31.74	3.27	0.00	9.50	0.00	88.58			A	1.00
* 2483.50	30.30	31.72	3.13	0.00	9.50	0.00	55.64	74	-18.36	P	1.18
* 2483.50	19.80	31.72	3.13	0.00	9.50	0.00	45.14	54	-8.86	A	1.18
* 2483.95	30.10	31.72	3.12	0.00	9.50	0.00	55.44	74	-18.56	P	1.20
* 2483.95	19.60	31.72	3.12	0.00	9.50	0.00	44.94	54	-9.06	A	1.20
* 4923.88	50.90	35.10	2.64	35.24	9.50	1.60	45.50	74	-28.50	P	1.00
* 4923.88	47.17	35.10	2.64	35.24	9.50	1.60	41.77	54	-12.23	A	1.00
* 7386.22	44.68	39.75	4.85	35.62	9.50	2.00	46.16	74	-27.84	P	1.00
* 7386.22	34.80	39.75	4.85	35.62	9.50	2.00	36.28	54	-17.72	A	1.00
9847.82	46.35	38.52	5.90	36.76	9.50	0.49	45.00	74	-29.00	P	1.00
9847.82	39.02	38.52	5.90	36.76	9.50	0.49	37.67	54	-16.33	A	1.00
* 12321.00	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14785.20	-----	-----	-----	-----	0.00	0.47	-----	-----	-----	-----	1.00
17249.40	-----	-----	-----	-----	0.00	0.60	-----	-----	-----	-----	1.00
* 19713.60	-----	-----	-----	-----	0.00	2.41	-----	-----	-----	-----	1.00
* 22177.80	-----	-----	-----	-----	0.00	0.70	-----	-----	-----	-----	1.00
24642.00	-----	-----	-----	-----	0.00	2.10	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:
 $Level=Reading+AF+Cable-Preamp+Filter-Dist, Margin=Level-Limit$
- The other emission levels were very low against the limit
- The test limit distance is 3M limit.
- For Wireless 802.11g mode (6Mbps).
- Antenna type : One Dipole and one PIFA Antenna.



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FCC ID : GSSAV802G

Report No. : ER04-06-034FRF

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The frequency spectrum above 1 GHz was investigated. All emissions not reported are much lower than the prescribed limits. Readings are both peak and average values.

Company	ViewSonic Corporation.	Test Date :	2004/6/16
Product Name	802.11g WLAN Mini PCI	Test By:	Ken Tu
Model Name	AV802G	TEMP&Humidity :	24.3°C , 49%

CH11 TX				Measurement Distance at 1m				Vertical polarity			
Freq.	Reading	AF	Cable	Pre-amp	Dist	Filter	Level	Limit	Margin	Mark	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	dB	dB	(dBuV/m)	(dBuV/m)	(dB)	(P/Q/A)	(Meter)
2464.20	83.28	31.74	3.27	0.00	9.50	0.00	108.79	Fundamental Frequency		P	1.00
2464.20	75.00	31.74	3.27	0.00	9.50	0.00	100.51			A	1.00
* 2483.50	40.00	31.72	3.13	0.00	9.50	0.00	65.34	74	-8.66	P	1.01
* 2483.50	25.80	31.72	3.13	0.00	9.50	0.00	51.14	54	-2.86	A	1.01
* 2483.95	37.20	31.72	3.12	0.00	9.50	0.00	62.54	74	-11.46	P	1.14
* 2483.95	25.70	31.72	3.12	0.00	9.50	0.00	51.04	54	-2.96	A	1.14
* 4924.00	53.04	35.10	2.64	35.24	9.50	1.60	47.64	74	-26.36	P	1.00
* 4924.00	49.67	35.10	2.64	35.24	9.50	1.60	44.27	54	-9.73	A	1.00
* 7386.16	50.43	39.75	4.85	35.62	9.50	2.00	51.91	74	-22.09	P	1.00
* 7386.16	40.26	39.75	4.85	35.62	9.50	2.00	41.74	54	-12.26	A	1.00
9847.82	46.38	38.52	5.90	36.76	9.50	0.49	45.03	74	-28.97	P	1.00
9847.82	36.52	38.52	5.90	36.76	9.50	0.49	35.17	54	-18.83	A	1.00
* 12321.00	-----	-----	-----	-----	9.50	0.80	-----	-----	-----	-----	1.00
14785.20	-----	-----	-----	-----	0.00	0.47	-----	-----	-----	-----	1.00
17249.40	-----	-----	-----	-----	0.00	0.60	-----	-----	-----	-----	1.00
* 19713.60	-----	-----	-----	-----	0.00	2.41	-----	-----	-----	-----	1.00
* 22177.80	-----	-----	-----	-----	0.00	0.70	-----	-----	-----	-----	1.00
24642.00	-----	-----	-----	-----	0.00	2.10	-----	-----	-----	-----	1.00

Note :

- The measurement was searched to 10th harmonic, Remark “---” means that the emissions level is too low to be measured.
- AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz).
- Analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- Remark “*” means that Restricted band.
- Dist : correction to extra plate reading to 3m specification distance 1m measurement distance = -9.5dB
- The result basic equation calculation is as follow:
 $Level=Reading+AF+Cable-Preamp+Filter-Dist, Margin=Level-Limit$
- The other emission levels were very low against the limit
- The test data marked in gray background means the EUT emission data is located in the margin uncertainty range of emission limits.
- The test limit distance is 3M limit.
- For Wireless 802.11g mode (6Mbps).
- Antenna type : One Dipole and one PIFA Antenna.

3.7 Photos of Open Site

A pair of Dipole Antenna :





One Dipole and one PIFA Antenna :





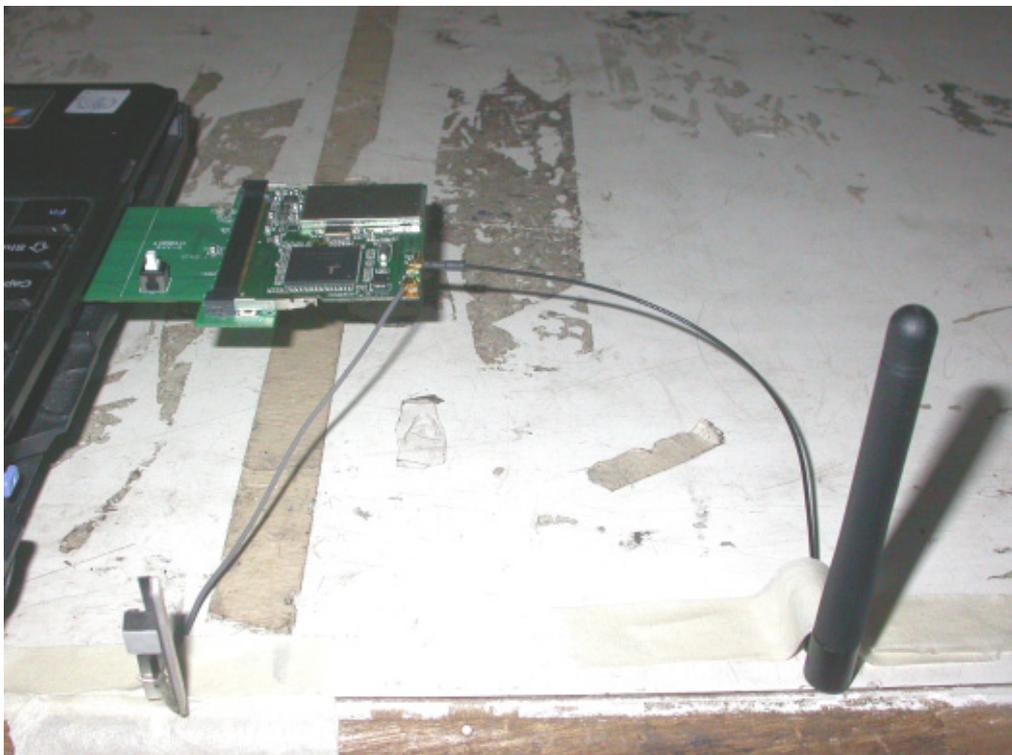
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4. 6dB BANDWIDTH MEASUREMENT

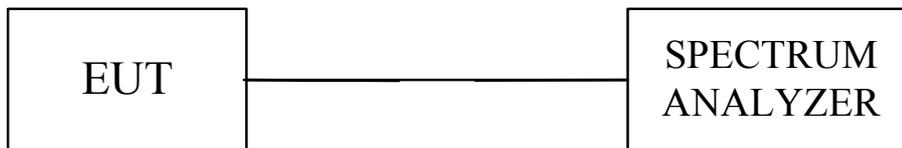
4.1 Test Equipments

Description & Manufacturer	Model No.	Serial No.	Date Of Calibration
ROHDE & SCHWARZ SPECTRUM ANALYZER	FSEK30	835253/002	June 17, 2004

Note : 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.2 Test Setup



4.3 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500KHz

4.4 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 10MHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

4.5 Uncertainty of Conducted Emission

The uncertainty of conducted emission is ± 200KHz.



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4.6 Test Results

Input Power (System)	3.3VDC (From Notebook)	Environmental Conditions	16°C, 84%RH
Tested By	Ken Tu		

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	11.58	0.5	PASS
6	2437	11.86	0.5	PASS
11	2462	11.58	0.5	PASS

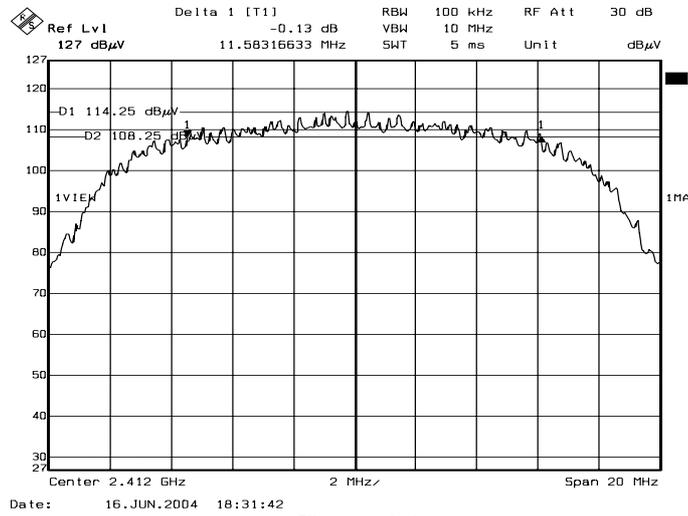
Note : 1. For 802.11b Mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	16.47	0.5	PASS
6	2437	16.43	0.5	PASS
11	2462	16.47	0.5	PASS

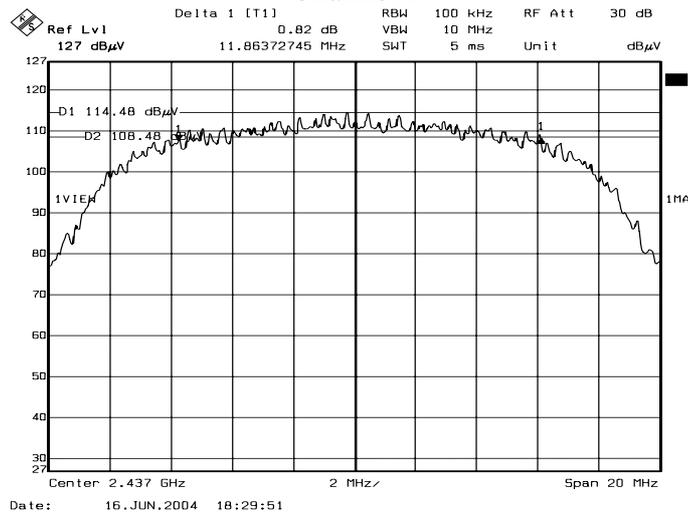
Note : 1. For 802.11g Mode



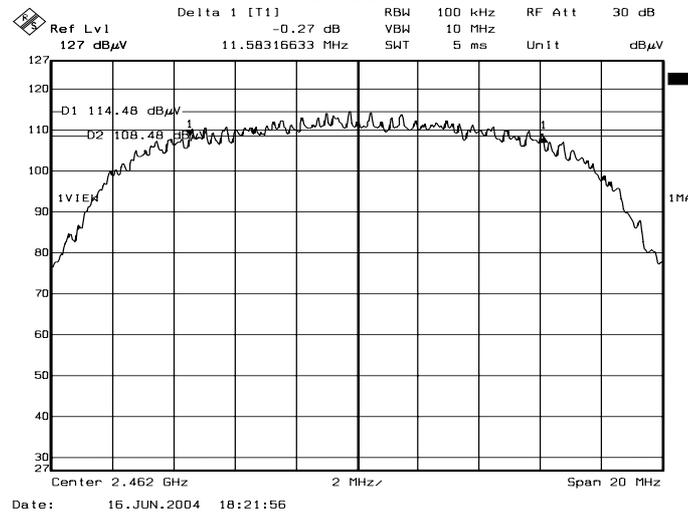
4.7 Photo of 6db Bandwidth Measurement



Channel 1



Channel 6



Channel 11

Note: For 802.11b Mode



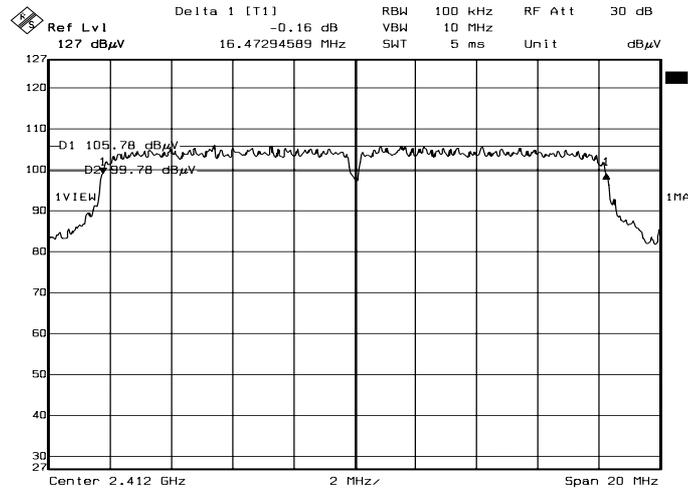
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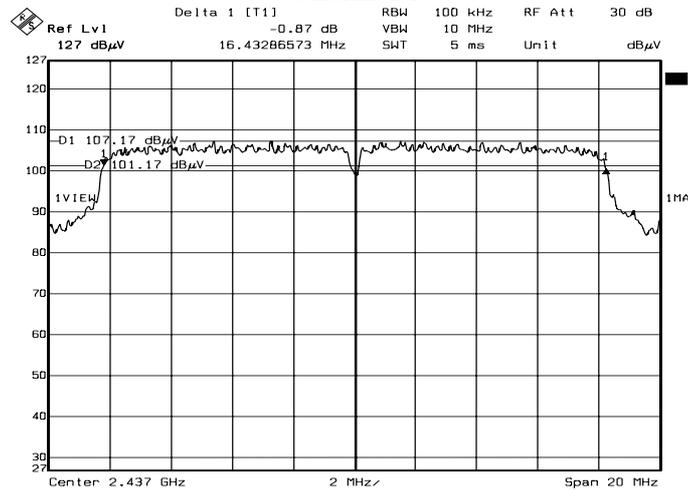
Report No. : ER04-06-034FRF

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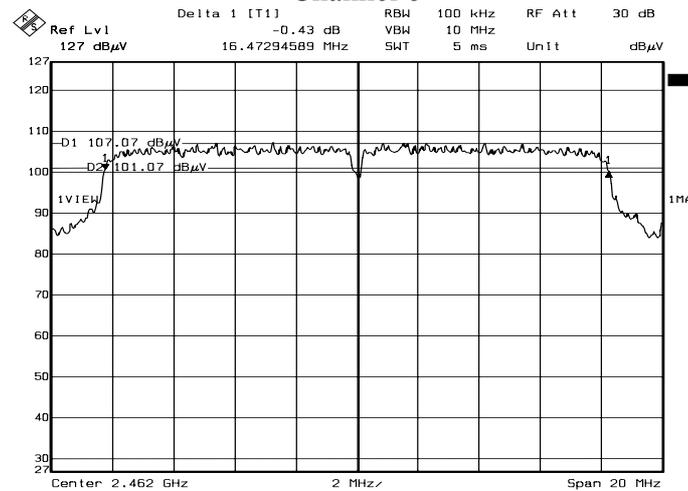
Date: 16.JUN.2004 17:16:25

Channel 1



Date: 17.JUN.2004 19:21:52

Channel 6



Date: 16.JUN.2004 17:46:12

Channel 11

Note: For 802.11g Mode

5. MAXIMUM PEAK OUTPUT POWER

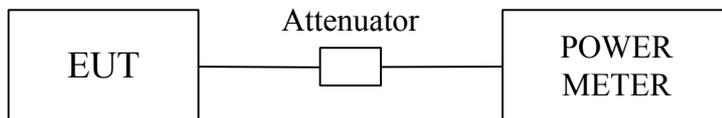
5.1 Test Equipments

Description & Manufacturer	Model No.	Serial No.	Date Of Calibration
ROHDE & SCHWARZ SPECTRUM ANALYZER	FSEK30	835253/002	June 17, 2004
Agilent ATTENUATOR	8491B	57321	CAL. ON USE
GIGASTRONICS POWER METER	8542	1828329	September 19, 2003

Note : 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

5.2 Test Setup



5.3 Limits of Maximum Peak Output Power

The Maximum Peak Output Power Measurement is 30dBm.



5.4 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate center frequency.

5.5 Uncertainty of Conducted Emission

The uncertainty of conducted emission is ± 1.82 dB.

5.6 Test Results

Input Power (System)	3.3VDC (From Notebook)	Environmental Conditions	16°C, 84%RH
Tested By	Ken Tu		

Channel	Channel Frequency (MHz)	Average Power Output (dBm)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass / Fail
1	2412	16.58	18.64	30	PASS
6	2437	17.58	19.61	30	PASS
11	2462	17.56	19.60	30	PASS

- Note : 1. For 802.11b mode.
 2. At final test to get the worst-case emission at 11Mbps.
 3. Cable loss = 0.5dB, Attenuator = 10dB.
 4. The results are calculated as the following equation :
 $Peak\ Power\ Output = Peak\ Power\ Reading + Cable\ loss + Attenuator$

Channel	Channel Frequency (MHz)	Average Power Output (dBm)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass / Fail
1	2412	13.07	15.07	30	PASS
6	2437	14.58	16.62	30	PASS
11	2462	14.20	16.24	30	PASS

- Note : 1. For 802.11g mode.
 2. At final test to get the worst-case emission at 6Mbps.
 3. Cable loss = 0.5dB, Attenuator = 10dB.
 4. The results are calculated as the following equation :
 $Peak\ Power\ Output = Peak\ Power\ Reading + Cable\ loss + Attenuator$



6. POWER SPECTRAL DENSITY MEASUREMENT

6.1 Test Equipments

Description & Manufacturer	Model No.	Serial No.	Date Of Calibration
ROHDE & SCHWARZ SPECTRUM ANALYZER	FSEK30	835253/002	June 17, 2004

Note : 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

6.2 Test Setup



6.3 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3KHz.



6.4 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3KHz RBW and 30KHz VBW, set sweep time=span / 3KHz.

The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span / 3KHz for a full response of the mixer in the spectrum analyzer.

6.5 Uncertainty of Conducted Emission

The uncertainty of conducted emission is ± 1.82 dB.

6.6 Test Results

Input Power (System)	3.3VDC (From Notebook)	Environmental Conditions	16°C, 84%RH
Tested By	Ken Tu		

Channel	Channel Frequency (MHz)	Final RF Power Level in 3KHz BW (dBm)	Maxmum Limit (dBm)	Pass / Fail
1	2412	-7.72	8	PASS
6	2437	-7.41	8	PASS
11	2462	-7.28	8	PASS

Note: For 11Mbps (802.11b mode) at final test to get the worst-case emission at 11Mbps.

Channel	Channel Frequency (MHz)	Final RF Power Level in 3KHz BW (dBm)	Maxmum Limit (dBm)	Pass / Fail
1	2412	-16.41	8	PASS
6	2437	-14.94	8	PASS
11	2462	-15.44	8	PASS

Note: For 54Mbps (802.11g mode) at final test to get the worst-case emission at 6Mbps.



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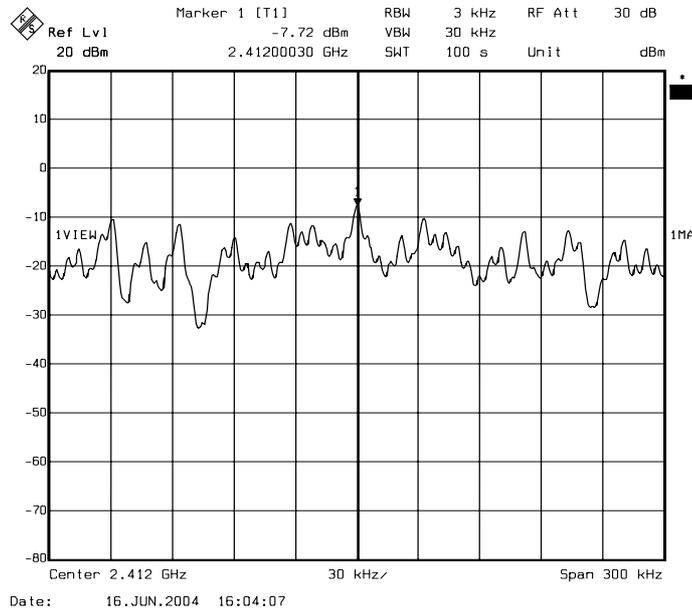
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FCC ID : GSSAV802G

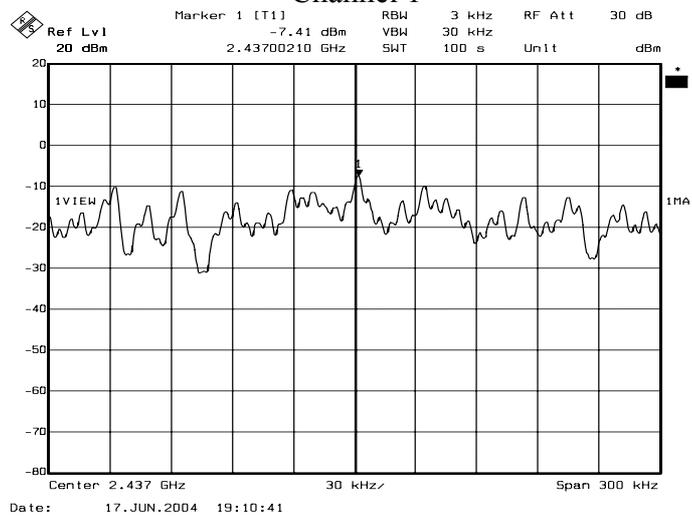
Report No. : ER04-06-034FRF

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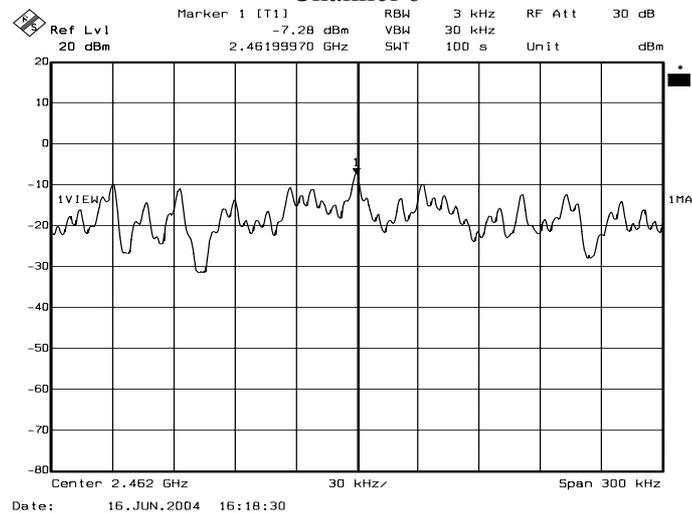
6.7 Photo of Power Spectral Density Measurement



Channel 1



Channel 6



Channel 11

Note: For 802.11b Mode



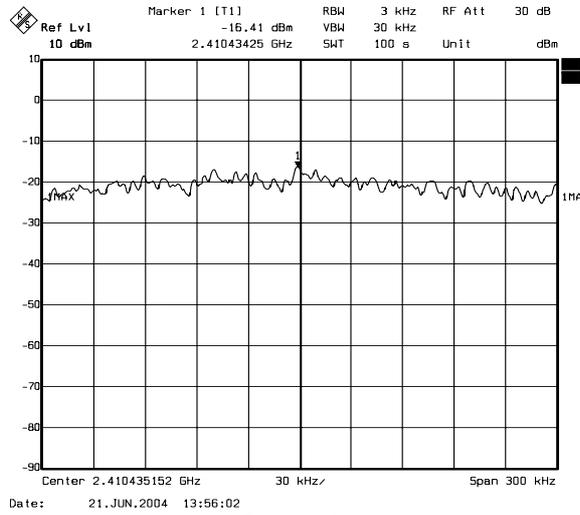
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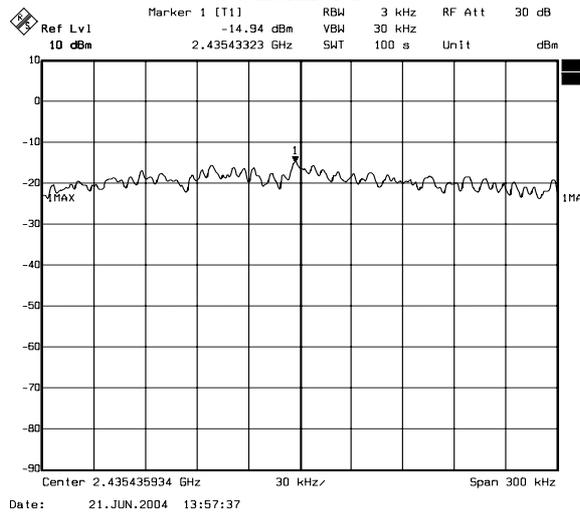
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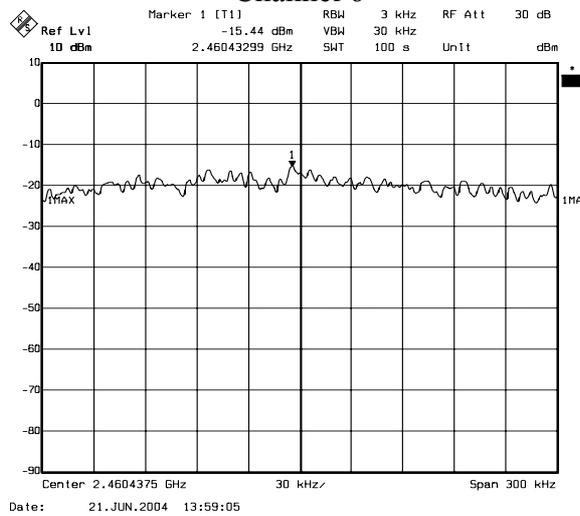
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Channel 1



Channel 6



Channel 11

Note: For 802.11g Mode



7. BAND EDGE MEASUREMENT

7.1 Test Equipments

Description & Manufacturer	Model No.	Serial No.	Date Of Calibration
ROHDE & SCHWARZ SPECTRUM ANALYZER	FSEK30	835253/002	June. 17, 2004

Note :

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

7.2 Test Setup



7.3 Limits of Band Edge Emissions Measurement

1. Below -20dB of the highest emission level in operating band.
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

7.4 Test Procedure

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer with suitable frequency span including 100KHz bandwidth from band edge. The band edges was measured and recorded.

7.5 Uncertainty of Conducted Emission

The uncertainty of conducted emission is ± 1.82 dB.



7.6 Test Results

A. Conducted

Refer to 7.7 photo of out band Emission measurement

B. Radiated

Input Power (System)	3.3VDC (From Notebook)	Environmental Conditions	26°C, 48%RH
Tested By	Ken Tu		

For 802.11b mode

Refer to the section 3.6, the measured radiated band edge emissions are listed below :

Band edge Frequency (MHz)		Measured radiated band edge field strength (dBuV/m)		Radiated band edge field strength limit (dBuV/m)		Test result
		Horizontal	Vertical	Horizontal	Vertical	
2399.90	PK	69.36	81.16	82.40	94.23	PASS
	AV	60.96	73.46	75.28	87.19	
2483.50	PK	56.54	60.04	74.00	74.00	PASS
	AV	44.44	47.24	54.00	54.00	

For 802.11g mode

Refer to the section 3.6, the measured radiated band edge emissions are listed below :

Band edge Frequency (MHz)		Measured radiated band edge field strength (dBuV/m)		Radiated band edge field strength limit (dBuV/m)		Test result
		Horizontal	Vertical	Horizontal	Vertical	
2399.90	PK	68.76	80.46	74.74	89.12	PASS
	AV	53.94	68.76	66.57	80.88	
2483.50	PK	55.94	66.34	74.00	74.00	PASS
	AV	44.84	52.94	54.00	54.00	

Note : 1. Radiated band edge field strength is measured with measurement procedure ANSI C63.4-2001.

2. Antenna type : A pair of Dipole Antenna.



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Input Power (System)	3.3VDC (From Notebook)	Environmental Conditions	26°C, 48%RH
Tested By	Ken Tu		

For 802.11b mode

Refer to the section 3.6, the measured radiated band edge emissions are listed below :

Band edge Frequency (MHz)		Measured radiated band edge field strength (dBuV/m)		Radiated band edge field strength limit (dBuV/m)		Test result
		Horizontal	Vertical	Horizontal	Vertical	
2399.90	PK	66.96	80.16	79.98	72.51	PASS
	AV	58.36	72.26	73.39	85.38	
2483.50	PK	55.04	61.04	74.00	74.00	PASS
	AV	44.54	47.94	54.00	54.00	

For 802.11g mode

Refer to the section 3.6, the measured radiated band edge emissions are listed below :

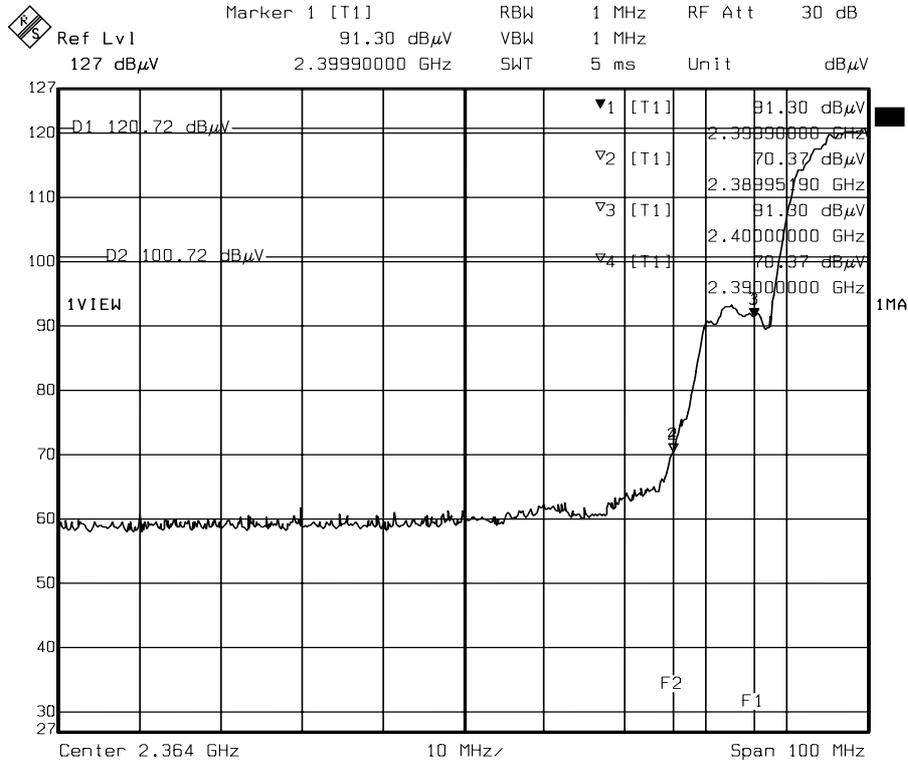
Band edge Frequency (MHz)		Measured radiated band edge field strength (dBuV/m)		Radiated band edge field strength limit (dBuV/m)		Test result
		Horizontal	Vertical	Horizontal	Vertical	
2399.90	PK	64.76	79.06	74.85	87.88	PASS
	AV	53.16	67.06	66.54	79.56	
2483.50	PK	55.64	65.34	74.00	74.00	PASS
	AV	45.14	51.14	54.00	54.00	

Note : 1. Radiated band edge field strength is measured with measurement procedure ANSI C63.4-2001.

2. Antenna type : One Dipole and one PIFA Antenna.

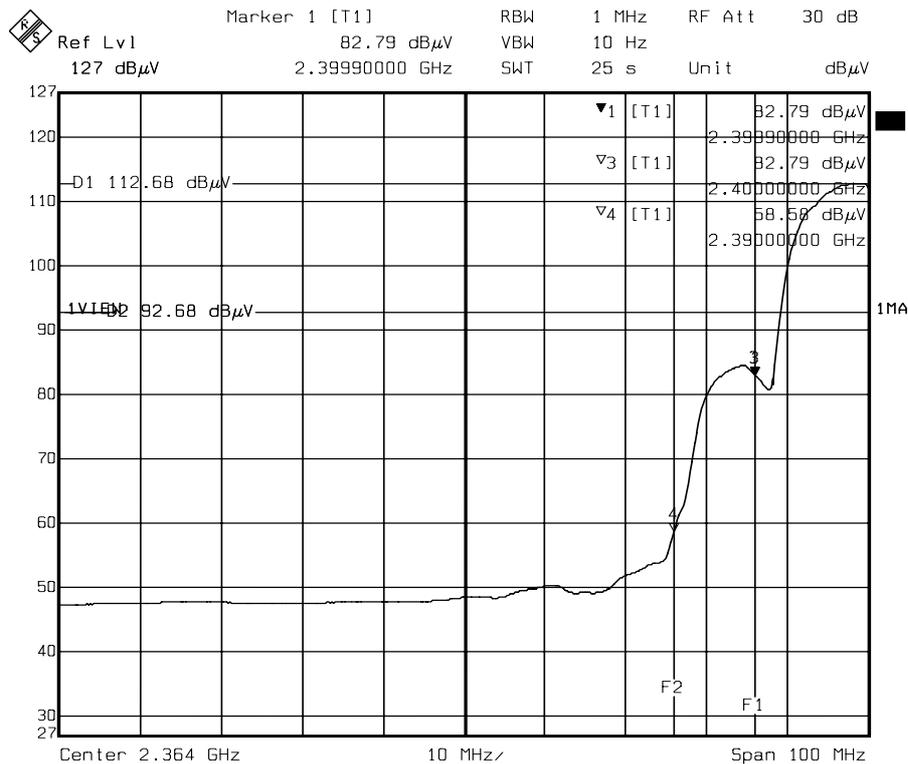


7.7 Photo of Band edge Measurement



Date: 16.JUN.2004 15:38:01

Lower Band edge (Peak)



Date: 16.JUN.2004 15:42:14

Lower Band edge (Average)

Note: For 802.11b Mode



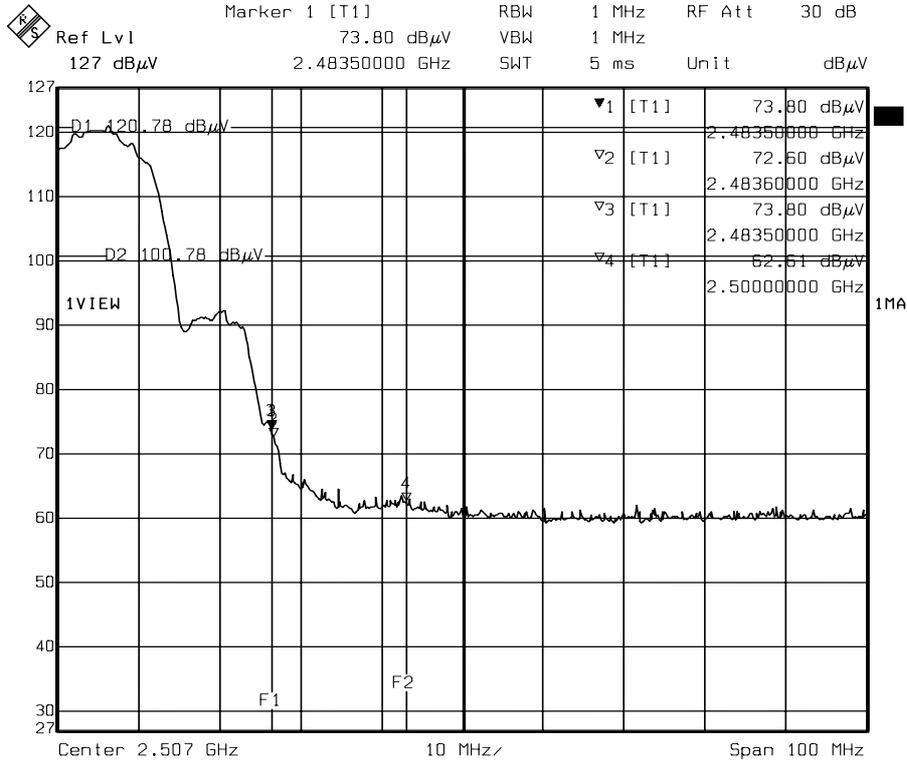
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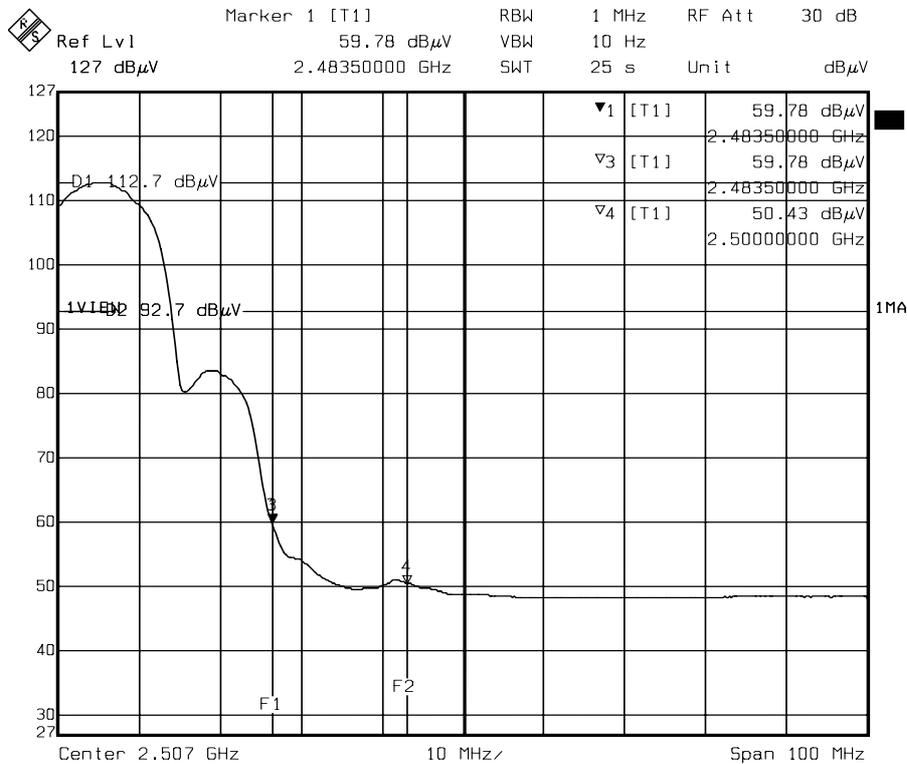
FCC ID : GSSAV802G

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Higher Band edge (Peak)



Higher Band edge (Average)
 Note: For 802.11b Mode



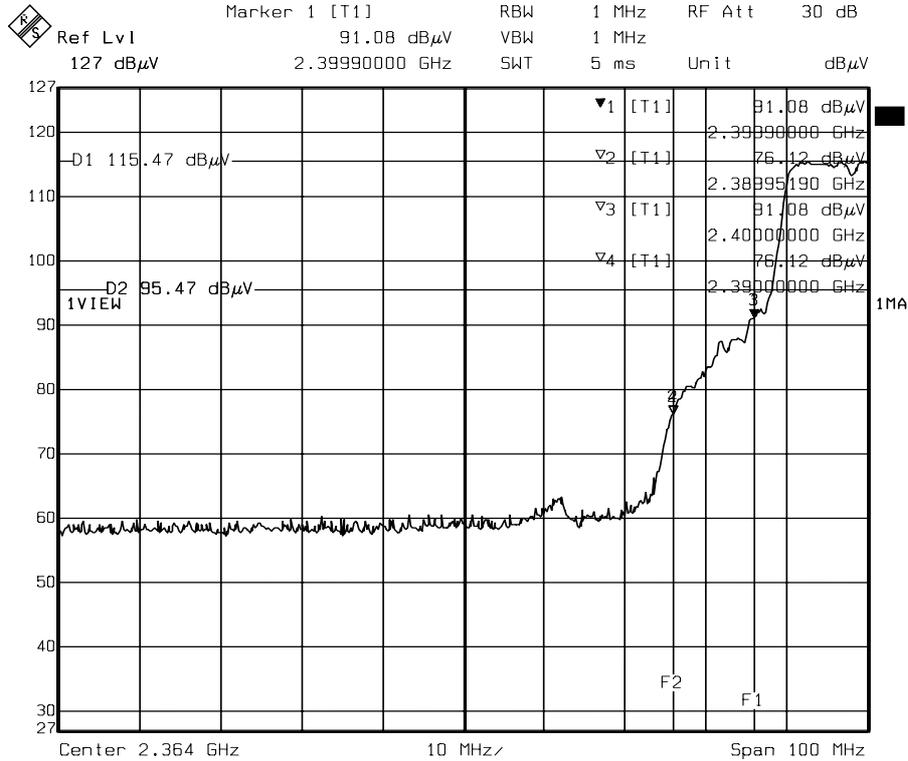
Ecom Sertech Corp.

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 TEL:886-3-5918012 FAX: 886-3-5825720

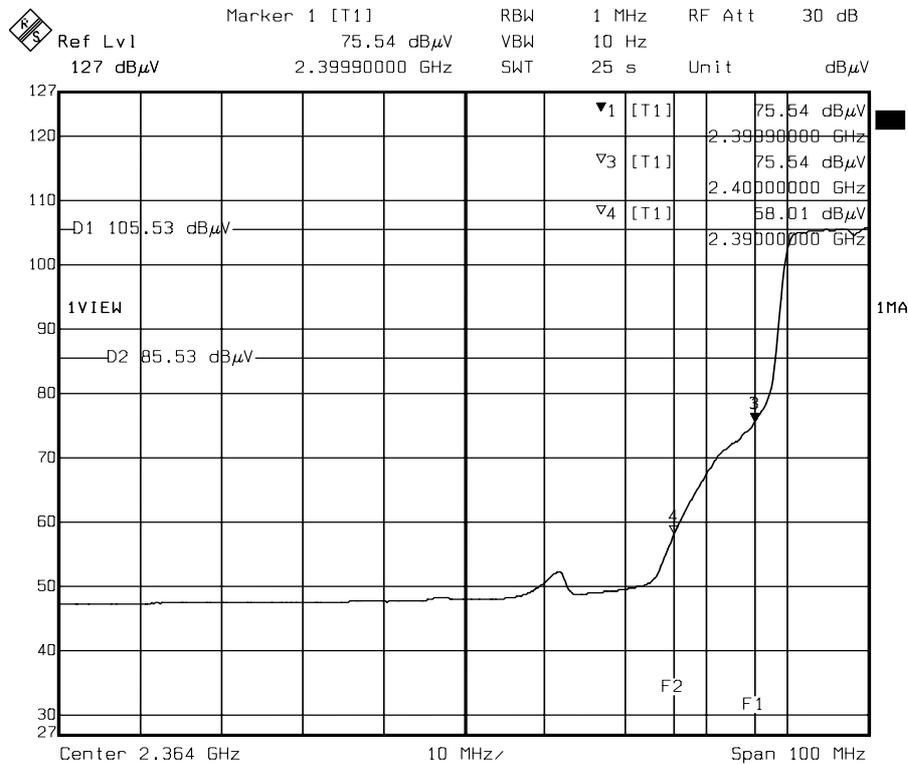
FCC ID : GSSAV802G

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Lower Band edge (Peak)



Lower Band edge (Average)

Note: For 802.11g Mode



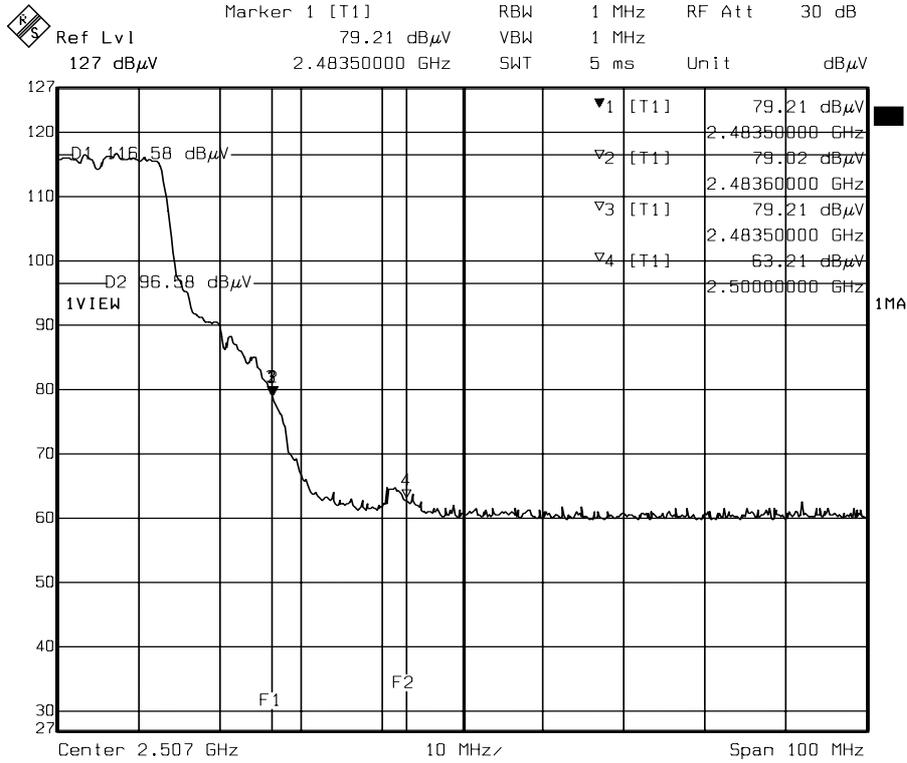
Ecom Sertech Corp.

Rm. 258, Bldg. 17, NO.195, Sec. 4 Chung Hsing Rd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C
 TEL:886-3-5918012 FAX: 886-3-5825720

FCC ID : GSSAV802G

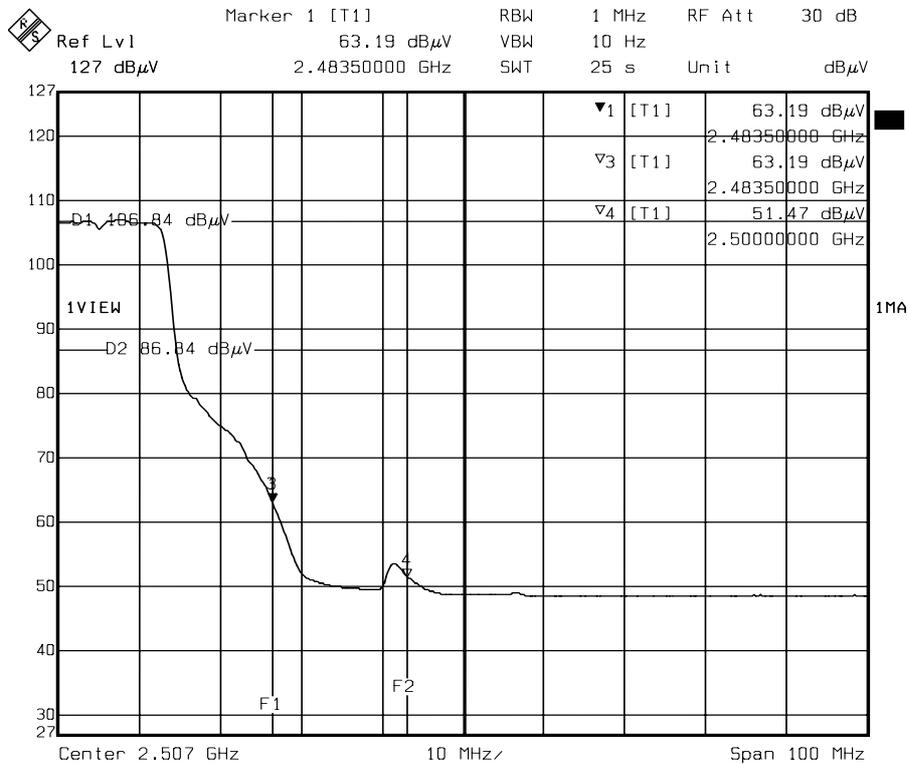
Report No. : ER04-06-034FRF

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Date: 16.JUN.2004 15:24:18

Higher Band edge (Peak)



Date: 16.JUN.2004 15:28:52

Higher Band edge (Average)

Note: For 802.11g Mode



8. ANTENNA REQUIREMENT

8.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

8.2 Antenna Connected Construction

Two pair of antennas are used for EUT.

The data of antennas are shown on the table below.

A pair of Dipole Antenna :

	Model No.	Manufacturer	Antenna Type	Cable Length	Gain dBi
Main antenna	WSL002	WANSHIH ELECTRONIC CO., LTD.	Dipole	150±5mm	2.71
Aux antenna	WSL002	WANSHIH ELECTRONIC CO., LTD.	Dipole	150±5mm	2.71

One Dipole and one PIFA Antenna :

	Model No.	Manufacturer	Antenna Type	Cable Length	Gain dBi
Main antenna	WSL002	WANSHIH ELECTRONIC CO., LTD.	Dipole	150±5mm	2.71
Aux antenna	WPF001	WANSHIH ELECTRONIC CO., LTD.	PIFA	120±5mm	0.41



9. RF EXPOSURE EVALUATION

According to FCC 1.1310 : The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)
LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time
(A) Limits for Occupational / Control Exposures				
300-1,500	--	--	F/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Population / Uncontrol Exposures				
300-1,500	--	--	F/1500	6
1,500-100,000	--	--	1	30

9.1 Friis Formula

Friis transmission formula : $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

9.2 EUT Operating Condition

A software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



9.3 Test Result of RF Exposure Evaluation

Test Item : RF Exposure Evaluation Data

Test Mode : Normal Operation

9.3.1 Antenna Gain

Two pair of antennas are used for EUT.

The antenna specification is listed in the table below :

A pair of Dipole Antenna :

	Model No.	Manufacturer	Antenna Type	Cable Length	Gain dBi
Main antenna	WSL002	WANSHIH ELECTRONIC CO., LTD.	Dipole	150±5mm	2.71
Aux antenna	WSL002	WANSHIH ELECTRONIC CO., LTD.	Dipole	150±5mm	2.71

One Dipole and one PIFA Antenna :

	Model No.	Manufacturer	Antenna Type	Cable Length	Gain dBi
Main antenna	WSL002	WANSHIH ELECTRONIC CO., LTD.	Dipole	150±5mm	2.71
Aux antenna	WPF001	WANSHIH ELECTRONIC CO., LTD.	PIFA	120±5mm	0.41



9.3.2 Output Power into Antenna & RF Exposure Evaluation Distance

The gain of main antenna of each pair of antenna is both 2.71dBi.

The radiated power from each pair of TX antenna are the same. The RF exposure evaluation results of these two pair of antenna are the same so only one RF exposure evaluation result of on pair of the antenna is shown in final test report.

Channel	Channel Frequency (MHz)	Output Antenna Power to Antenna (dBm) e.i.r.p.	Power Density at 20cm (mW/cm ²)	LIMITS (mW/cm ²)
CH1	2412.00	19.79	0.018955	1
CH6	2437.00	20.79	0.023863	1
CH11	2462.00	20.77	0.023754	1

Note : 1. For 802.11b mode (11Mbps).

2. The power density Pd (4th column) at a distance of 20cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm² . The EUT is classified as mobile product. So, RF exposure limit warning or SAR test are not required.

Channel	Channel Frequency (MHz)	Output Antenna Power to Antenna (dBm) e.i.r.p.	Power Density at 20cm (mW/cm ²)	LIMITS (mW/cm ²)
CH1	2412.00	16.28	0.008448	1
CH6	2437.00	17.79	0.011960	1
CH11	2462.00	17.41	0.010958	1

Note : 1. For 802.11g mode (6Mbps).

2. The power density Pd (4th column) at a distance of 20cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm² . The EUT is classified as mobile product. So, RF exposure limit warning or SAR test are not required.