

FCC TEST REPORT

according to

FCC Rules and Regulations

Part 15 Subpart C

Applicant	Firetide Inc.
Address	16795 Lark Ave., Ste. 200, Los Gatos, CA 95032
Equipment	HotPort Wireless Mesh Node
Model No.	3100
FCC ID	REP-3100-1
Trade Name	Firetide

Laboratory Accreditation



1332

ILAC MRA

- The test result refers exclusively to the test presented test model / sample.,
- Without written approval of **Exclusive Certification Corp.** the test report shall not be reproduced except in full.
- The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

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CERTIFICATE OF COMPLIANCE

according to

FCC Rules and Regulations

Part 15 Subpart C

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FCC ID	REP-3100-1

I HEREBY CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4**. The equipment was **passed** the test performed according to **FCC Rules and Regulations Part 15 Subpart C (2003)**. The test was carried out on Feb. 22, 2005 at *Exclusive Certification Corp.*

Signature


Anson Chou / Manager Feb. 25, 2005

1. Report of Measurements and Examinations

1.1. List of Measurements and Examinations

FCC Rule	Description of Test	Result
15.203	. Antenna Requirement	Pass
15.207	. Conducted Emission	Pass
15.209	. Radiated Emission	Pass
15.247(a)(2)	. 6dB Bandwidth	Pass
15.247(b)	. Maximum Peak Output Power	Pass
15.247(c)	. 100kHz Bandwidth of Frequency Band Edges	Pass
15.247(d)	. Power Spectral Density	Pass
1.1307 1.1310 2.1091 2.1093	. RF Exposure Compliance	Pass

Test by: Jerry Feb. 17, 2005

1.2. Antenna Requirements

1.2.1. 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.

1.3. Test of Conducted Emission

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 115 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

1.3.1. Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

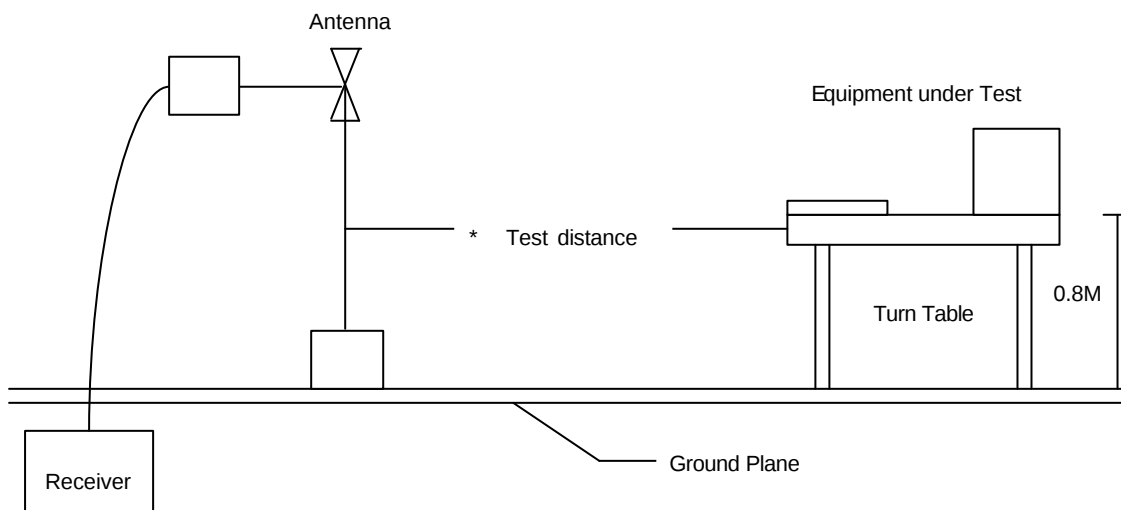
1.4. Test of Radiated Emission

Radiated emissions from 30 MHz to 25 GHz were measured according to the methods defines in ANSI C63.4-2003. The EUT was placed, 0.8 meter above the ground plane, as shown in section 5.6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions

1.4.1. Test Procedures

1. The EUT was placed on a rotatable table top 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
5. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
8. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

1.4.2. Typical Test Setup Layout of Radiated Emission

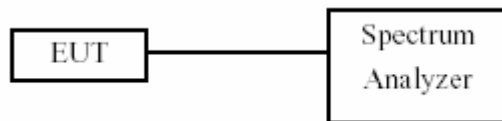


1.5. 6dB Bandwidth

1.5.1. Test Procedure :

1. The transmitter output was connected to the spectrum analyzer.
2. Set RBW of spectrum analyzer to 100 KHz and VBW to 100 KHz.
3. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.

1.5.2. Test Setup Layout :

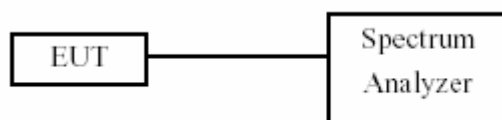


1.6. Maximum Peak Output Power

1.6.1. Test Procedure :

The antenna port (RF output) of the EUT was connected to the input (RF input) of a spectrum analyzer. Power was read directly from the spectrum analyzer and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

1.6.2. Test Setup Layout :



1.7. Band Edges Measurement

1.7.1. Test Procedure :

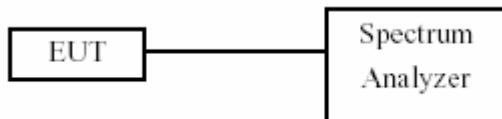
1. The transmitter output was connected to the spectrum analyzer via a low lose cable.
2. Set both RBW and VBW of spectrum analyzer to 100 KHz with convenient frequency span including 100 MHz bandwidth from band edge.
3. The band edges was measured and recorded.

1.8. Power Spectral Density

1.8.1. Test Procedure :

1. The transmitter output was connected to spectrum analyzer.
2. The spectrum analyzer' s resolution bandwidth were set at 3KHz RBW and 30KHz VBW as that of the fundamental frequency. Set the sweep time=span/3KHz.
3. The power spectral density was measured and recorded.
4. The Sweep time is allowed to be longer than span/3KHz for a full response of the mixer in the spectrum analyzer.

1.8.2. Test Setup Layout :



1.9. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

1.10. Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

1.11. RF Exposure

FCC Rules and Regulations Part 1.1307, 1.1310, 2.1091, 2.1093:

RF Exposure Compliance

1.11.1. Limit For Maximum Permissible Exposure (MPE)

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

F=frequency in MHz

*Plane-wave equivalent power density

1.11.2. MPE Calculations

$$E \text{ (V/m)} = \frac{\sqrt{30 \cdot P \cdot G}}{d} \quad \text{Power Density: } Pd \text{ (mW/cm}^2\text{)} = \frac{E^2}{3770}$$

E = Electric field (V/m)

P = Peak output power (W)

G = Antenna numeric gain (numeric)

d = Separation distance (m)

Because the EUT is belong to General Population/ Uncontrolled Exposure. So the Limit of Power Density is 10 W/m². We can change the formula to:

$$d = \sqrt{\frac{30 \cdot P \cdot G}{3770}}$$

1.11.3. FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation. Proposed RF exposure safety information to include in User's Manual.

2. Test Configuration of Equipment under Test

2.1. Test Mode and Test Software

The following test mode and test software was performed for conduction and radiation test:

- 802.11b (CH LO: 2412MHz) • 802.11b (CH MID: 2437MHz) • 802.11b (CH HI: 2462MHz)
- 802.11g (CH LO: 2412MHz) • 802.11g (CH MID: 2437MHz) • 802.11g (CH HI: 2462MHz)
- An executive programs, "Hyper Terminal" Application under WIN XP.

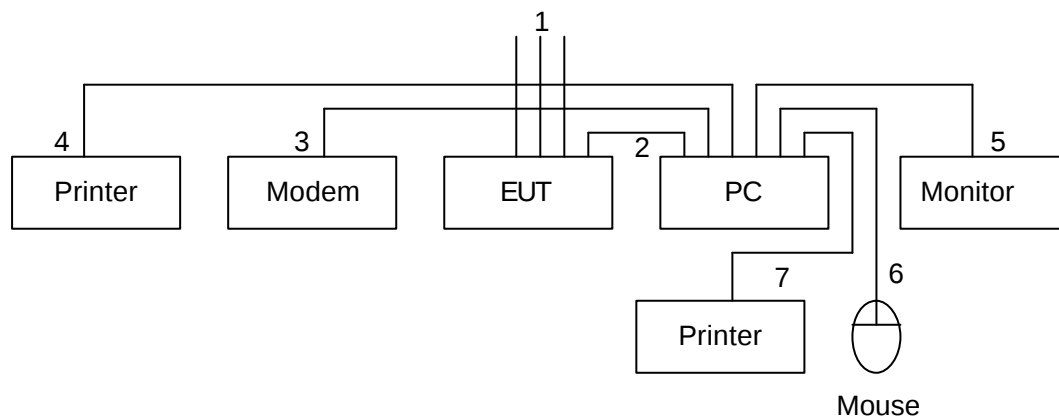
2.2. Description of Test System

Device	Manufacturer	Model No.	Description
PC	IBM	IGV	Power Cable, Unshielding 1.8 m
Monitor	SlimAGE	510A	Power Cable, Adapter Unshielding 1.8 m Data Cable, VGA shielding 1.35 m
Keyboard	IBM	KB-0225	Data Cable, PS2 shielding 1.85 m
Mouse	IBM	MO28VO	Data Cable, USB shielding 1.85 m
Modem	ACEXX	DM-1414	Power Cable, Adapter Unshielding 1.8 m Data Cable, RS232 Unshielding 1.35 m
Printer	HP	Desk Jet400	Power Cable, Adapter Unshielding 1.8 m Data Cable, PRINT shielding 1.6 m
Notebook (Remote site)	IBM	R40(2723-BV1)	Power Cable, Adapter Unshielding 1.8 m

Use Cable:

Cable	Description
RJ-45	Unshielding, 10m
RJ-45*3	Unshielding, 1.8m

2.3. Connection Diagram of Test System



1. The RJ 45 cable is floating.
2. The I/O cable is connected from PC to the EUT.
3. The I/O cable is connected from PC to the Modem.
4. The I/O cable is connected from PC to the Printer.
5. The I/O cable is connected from PC to the Monitor.
6. The I/O cable is connected from PC to the Mouse.
7. The I/O cable is connected from PC to the Printer.

2.4. Feature of Equipment under Test

Protocol Firetide Mesh Routing Protocol (FMRP) Encryption • 40 bit, 128 bit WEP keys • 128 bit, 256 bit AES keys Network ports • Four 10/100 Base-TX (RJ-45) • IEEE 802.3, 802.3u compliant • CSMA/CD 10/100 autosense Enclosure • Two antenna connectors (SMA reverse polarity) • One power connector • Four Ethernet data connectors (RJ-45) • System indicator LEDs (power, status, mesh, fault). • Ethernet indicator LEDs (link status, activity) • Security slot for physical locking device • Reset button (recessed) • Weight: 2.1 lbs (.95 Kg) without external transformer • Dimensions: 10" x 6" x 1" (25.4 cm x 15.2 cm x 2.5 cm)	Power • 5 VDC input • 100-240 VAC, 50/60 Hz (external transformer) • 13 W power consumption Regulatory Agency Certifications See Appendix C and D for countries of operation and regulatory agency information Environmental specifications • Operating temperature: 0° C to +50° C • Storage temperature: -20° C to +70° C • Humidity (non-condensing) 10% to 90% • Storage Humidity (non-condensing): 10% to 90% Warranty One year limited warranty (see warranty card for details)
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2.5. RF Module Specifications

Wireless interface 2.4 GHz spectrum • 2.4–2.497 GHz (actual range available for use is subject to country-specific regulatory approvals) • Radio TX Power: Maximum 29mW • Ad Hoc Mode support 5 GHz spectrum • 5.15 – 5.25 GHz • 5.25 – 5.35 GHz • 5.75 – 5.825 GHz (actual range available for use is subject to country-specific regulatory approvals) • Radio TX Power: Maximum 40mW • Dynamic Frequency Selection (DFS) • Transmit Power Control (TPC) • Ad Hoc Mode support	Antennas • Two detachable, omni directional, vertical polarization antennas • Spectrum: 2.4 GHz and 5 GHz • Connectors: SMA reverse polarity • Length: 6.25 in. (15.5 cm) • Range: up to 0.2 Miles (300 Meters) • Gain: up to 6 dBi
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2.6. History of this test report

ORIGINAL.

3. General Information of Test

Test Site:	Exclusive Certification Corp. 4F-2, No. 28, Lane 78, Xing-Ai Rd. Nei-hu, Taipei City 114 Taiwan R.O.C.
Test Site Location (OATS1-SD):	No.68-1, Shihbachongsi, shihding Township, Taipei County 223, Taiwan, R.O.C.
Test Voltage:	AC 110V/ 60Hz
Test in Compliance with:	ANSI C63.4-2003 FCC Part 15 Subpart C
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 24620MHz
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.

4. Test Result and Data

4.1. Antenna Requirement

4.1.1. Antenna Construction and Directional Gain

Antenna type: Reverse SMA connector, dipole antenna.

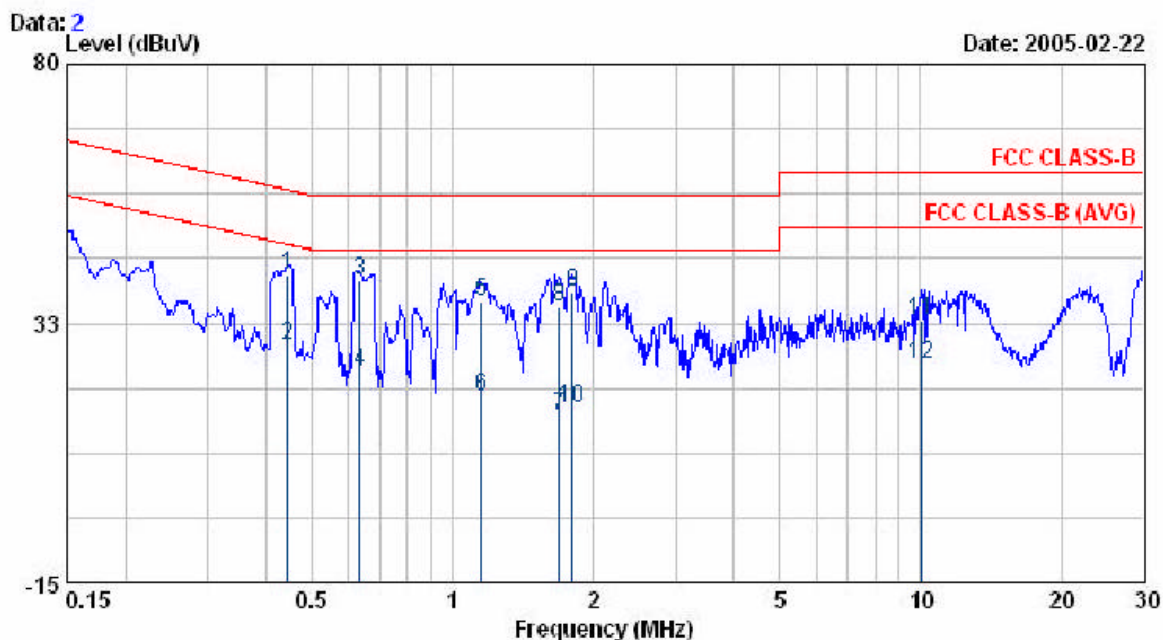
Antenna Gain: 3 dBi @ 2.4 GHz.

4 dBi @ 5 GHz.

4.2. Test Result of Conducted Emission

EUT : 3100
 Power : AC 110V
 Test Mode : 802.11b CH L0
 Memo :

Pol/Phase : NEUTRAL
 Temperature : 26 °C
 Humidity : 61 %



Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.445	40.82	0.49	41.31	56.96	-15.66	QP
0.445	28.05	0.49	28.54	46.96	-18.43	AVERAGE
0.635	39.76	0.45	40.21	56.00	-15.79	QP
0.635	23.13	0.45	23.58	46.00	-22.42	AVERAGE
1.154	36.13	0.42	36.55	56.00	-19.45	QP
1.154	18.56	0.42	18.98	46.00	-27.02	AVERAGE
1.692	15.24	0.48	15.72	46.00	-30.28	AVERAGE
1.692	34.99	0.48	35.47	56.00	-20.53	QP
1.807	37.69	0.49	38.18	56.00	-17.82	QP
1.807	16.45	0.49	16.94	46.00	-29.06	AVERAGE
10.012	32.58	0.50	33.08	60.00	-26.92	QP
10.012	24.64	0.50	25.14	50.00	-24.86	AVERAGE

Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(1SN) Factor + Cable Loss

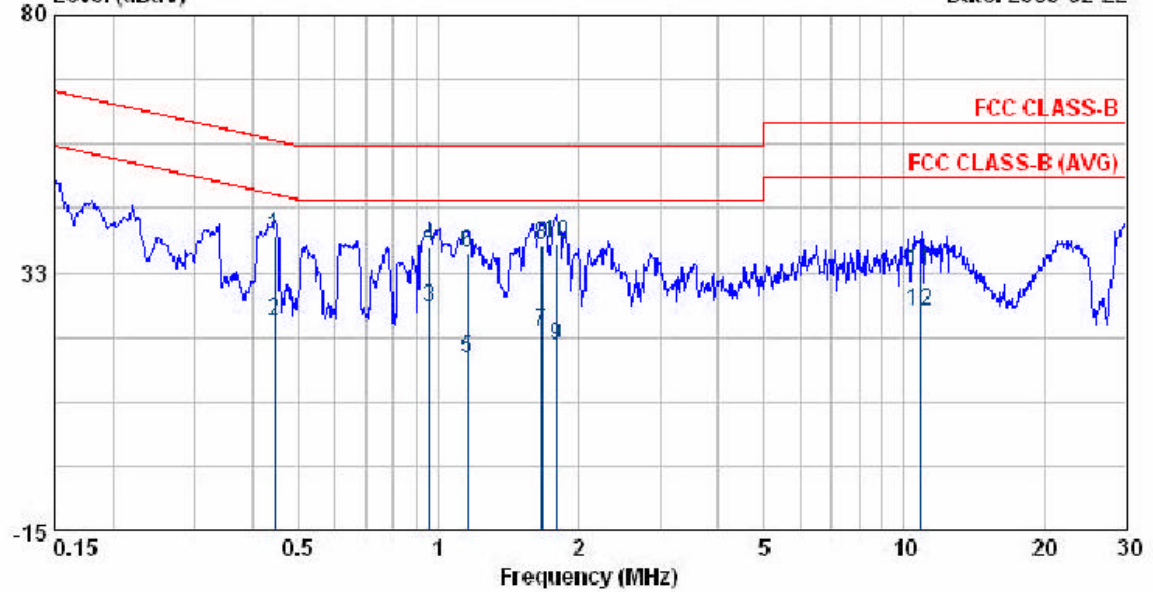
EUT : 3100
 Power : AC 110V
 Test Mode : 802.11b CH L0
 Memo :

Pol/Phase : LINE
 Temperature : 26 °C
 Humidity : 61 %

Data: 3

Level (dBuV)

Date: 2005-02-22



Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.447	38.80	0.49	39.29	56.93	-17.65	QP
0.447	23.10	0.49	23.59	46.93	-23.35	AVERAGE
0.955	25.57	0.40	25.97	46.00	-20.03	AVERAGE
0.955	36.66	0.40	37.06	56.00	-18.94	QP
1.160	16.22	0.42	16.64	46.00	-29.36	AVERAGE
1.160	35.69	0.42	36.11	56.00	-19.89	QP
1.671	21.17	0.47	21.64	46.00	-24.36	AVERAGE
1.671	36.93	0.47	37.40	56.00	-18.60	QP
1.800	18.74	0.48	19.22	46.00	-26.78	AVERAGE
1.800	37.46	0.48	37.94	56.00	-18.06	QP
10.879	32.02	0.48	32.50	60.00	-27.50	QP
10.879	25.02	0.48	25.50	50.00	-24.50	AVERAGE

Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(15N) Factor + Cable Loss

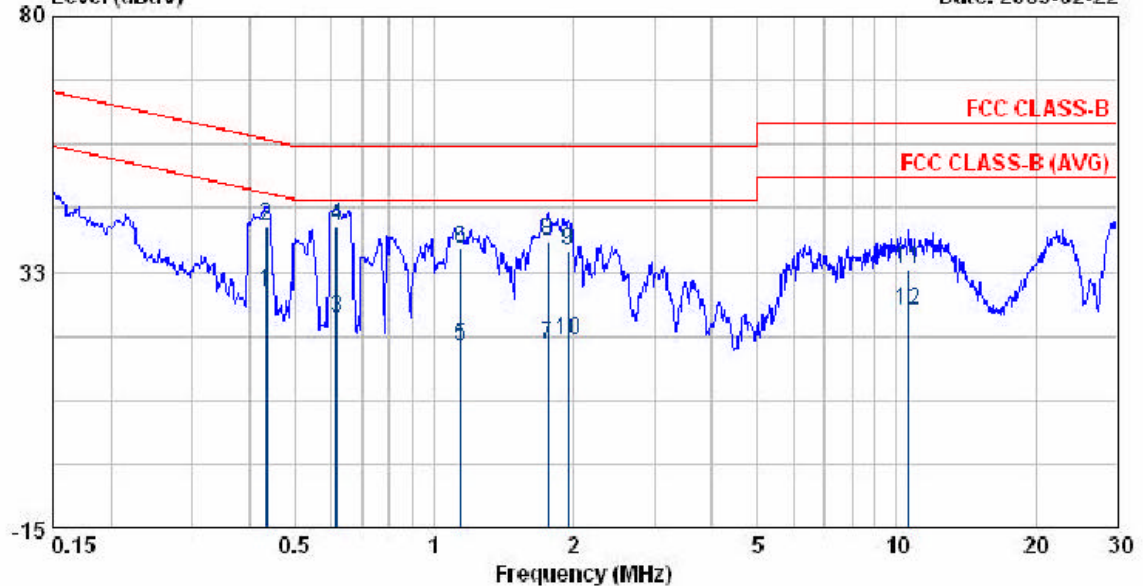
EUT : 3100
 Power : AC 110V
 Test Mode : 802.11b CH MID
 Memo :

Pol/Phase : NEUTRAL
 Temperature : 26 °C
 Humidity : 61 %

Data: 5

Level (dBuV)

Date: 2005-02-22

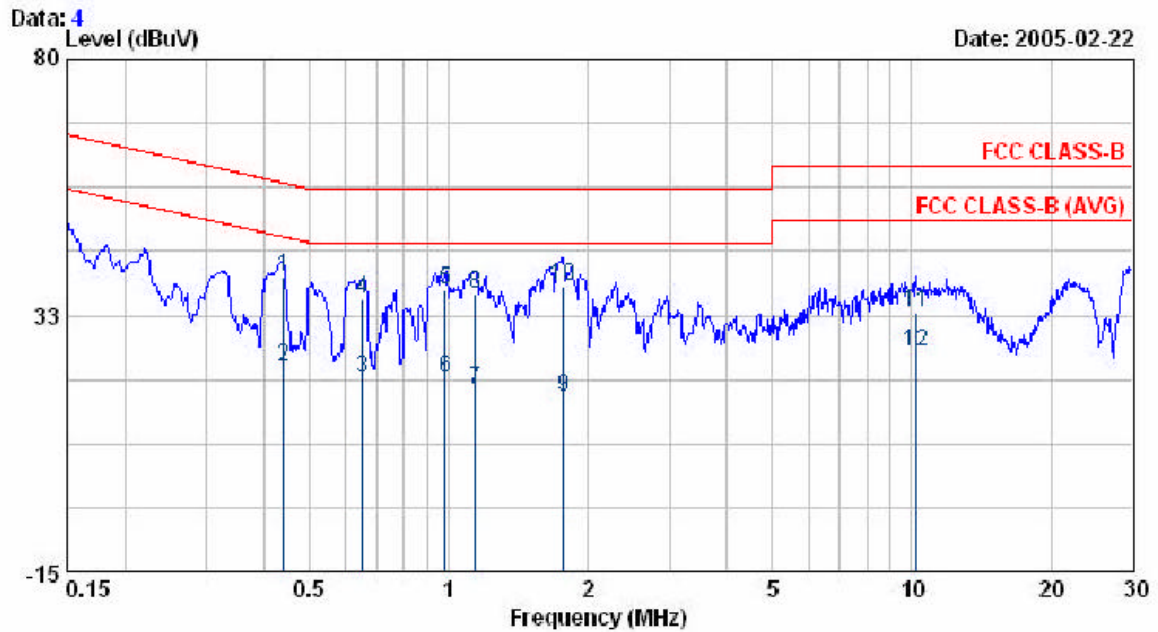


Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.435	28.52	0.49	29.01	47.15	-18.14	AVERAGE
0.435	40.43	0.49	40.92	57.15	-16.23	QP
0.617	23.62	0.45	24.07	46.00	-21.93	AVERAGE
0.617	40.60	0.45	41.05	56.00	-14.95	QP
1.141	18.40	0.42	18.82	46.00	-27.18	AVERAGE
1.141	36.42	0.42	36.84	56.00	-19.16	QP
1.762	18.62	0.48	19.10	46.00	-26.90	AVERAGE
1.762	37.75	0.48	38.23	56.00	-17.77	QP
1.959	36.03	0.50	36.53	56.00	-19.47	QP
1.959	19.46	0.50	19.96	46.00	-26.04	AVERAGE
10.585	32.32	0.54	32.86	60.00	-27.14	QP
10.585	24.78	0.54	25.32	50.00	-24.68	AVERAGE

Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(15N) Factor + Cable Loss

EUT : 3100
 Power : AC 110V
 Test Mode : 802.11b CH MID
 Memo :

Pol/Phase : LINE
 Temperature : 26 °C
 Humidity : 61 %



Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.440	39.06	0.49	39.55	57.07	-17.52	QP
0.440	22.54	0.49	23.03	47.07	-24.04	AVERAGE
0.653	20.47	0.45	20.92	46.00	-25.08	AVERAGE
0.653	34.98	0.45	35.43	56.00	-20.57	QP
0.984	36.72	0.40	37.12	56.00	-18.88	QP
0.984	20.57	0.40	20.97	46.00	-25.03	AVERAGE
1.141	18.37	0.42	18.79	46.00	-27.21	AVERAGE
1.141	35.97	0.42	36.39	56.00	-19.61	QP
1.772	16.95	0.48	17.43	46.00	-28.57	AVERAGE
1.772	37.44	0.48	37.92	56.00	-18.08	QP
10.229	32.52	0.42	32.94	60.00	-27.06	QP
10.229	25.36	0.42	25.78	50.00	-24.22	AVERAGE

Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(15N) Factor + Cable Loss

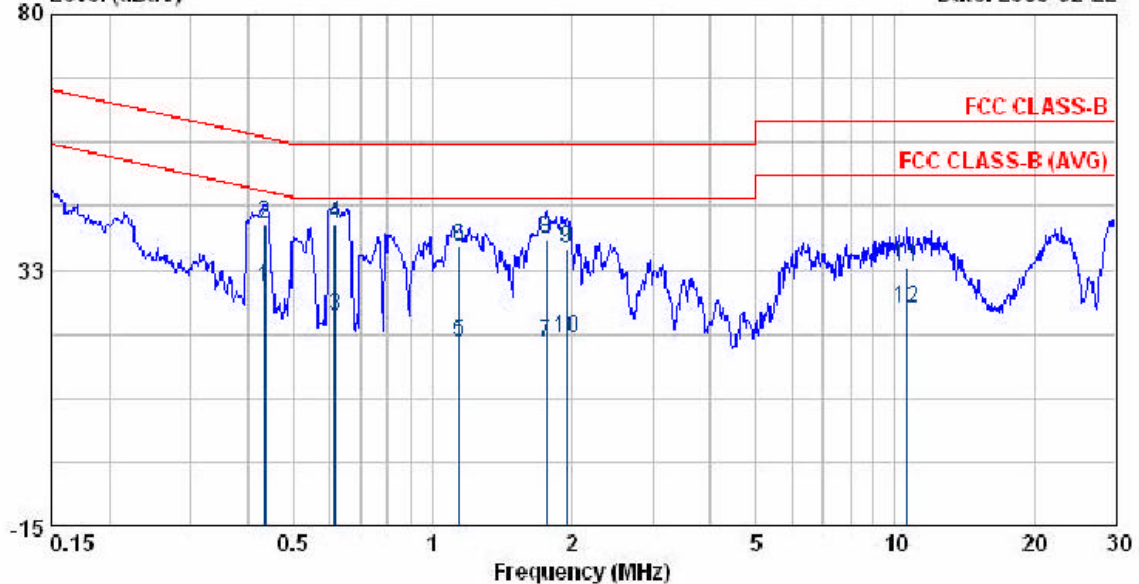
EUT : 3100
 Power : AC 110V
 Test Mode : 802.11b CH HI
 Memo :

Pol/Phase : NEUTRAL
 Temperature : 26 °C
 Humidity : 61 %

Data: 6

Level (dBuV)

Date: 2005-02-22

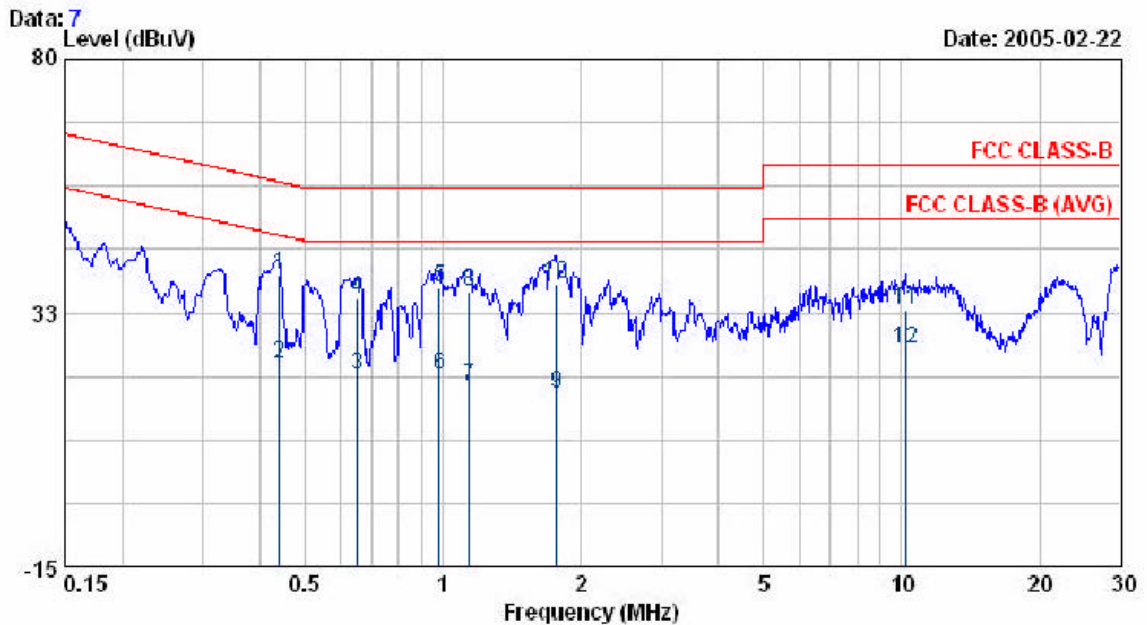


Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.435	28.62	0.49	29.11	47.15	-18.04	AVERAGE
0.435	40.51	0.49	41.00	57.15	-16.15	QP
0.617	23.61	0.45	24.06	46.00	-21.94	AVERAGE
0.617	40.63	0.45	41.08	56.00	-14.92	QP
1.141	18.52	0.42	18.94	46.00	-27.06	AVERAGE
1.141	36.46	0.42	36.88	56.00	-19.12	QP
1.762	18.65	0.48	19.13	46.00	-26.87	AVERAGE
1.762	37.71	0.48	38.19	56.00	-17.81	QP
1.959	36.14	0.50	36.64	56.00	-19.36	QP
1.959	19.41	0.50	19.91	46.00	-26.09	AVERAGE
10.585	32.41	0.54	32.95	60.00	-27.05	QP
10.585	24.71	0.54	25.25	50.00	-24.75	AVERAGE

Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(15N) Factor + Cable Loss

EUT : 3100
 Power : AC 110V
 Test Mode : 802.11b CH HI
 Memo :

Pol/Phase : LINE
 Temperature : 26 °C
 Humidity : 61 %



Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.440	39.15	0.49	39.64	57.07	-17.43	QP
0.440	22.61	0.49	23.10	47.07	-23.97	AVERAGE
0.653	20.51	0.45	20.96	46.00	-25.04	AVERAGE
0.653	34.81	0.45	35.26	56.00	-20.74	QP
0.984	36.71	0.40	37.11	56.00	-18.89	QP
0.984	20.61	0.40	21.01	46.00	-24.99	AVERAGE
1.141	18.41	0.42	18.83	46.00	-27.17	AVERAGE
1.141	35.91	0.42	36.33	56.00	-19.67	QP
1.772	16.91	0.48	17.39	46.00	-28.61	AVERAGE
1.772	37.51	0.48	37.99	56.00	-18.01	QP
10.229	32.61	0.42	33.03	60.00	-26.97	QP
10.229	25.41	0.42	25.83	50.00	-24.17	AVERAGE

Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(15N) Factor + Cable Loss