FCC TEST REPORT

according to

FCC Rules and Regulations

Part 15 Subpart C

Applicant	Netgear Inc.
Address	4500 Great America Parkway Santa Clara California 95054 USA
Equipment	ProSafe Dual Band Wireless Access Point
Model No.	WAG102
FCC ID	PY305200015
Trade Name	Netgear

Laboratory Accreditation

1332

- The test result refers exclusively to the test presented test model / sample.,
- Without written approval of ***E**xclusive **C**ertification **C**orp.* 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

Applicant	Netgear Inc.
Address	4500 Great America Parkway Santa Clara California 95054 USA
Equipment	ProSafe Dual Band Wireless Access Point
Model No.	WAG102
FCC ID	PY305200015

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 Oct. 22, 2005 at ***E**xclusive **C**ertification **C**orp.*

Signature

Anson Chou / Manager

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 engineer: Jerry

2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

•	Multiple Operating Modes
-	Wireless Access Point. Operates as a standard 802.11a/g.
-	Point-to-Point Bridge. In this mode, the WAG102 only communicates with another bridge-mode wireless station. You must enter the MAC address (physical address) of the other bridge-mode wireless station in the field provided. WEP should be used to protect this communication.
-	Point-to-Multi-Point Bridge. Select this only if this WAG102 is the "Master" for a group of bridge-mode wireless stations. The other bridge-mode wireless stations must be set to Point-to-Point Bridge mode, using this WAG102's MAC address. They then send all traffic to this "Master", rather than communicate directly with each other. WEP should be used to protect this traffic.
-	Wireless Repeater. In this half-duplex mode, the WAG102 only communicates with another repeater-mode wireless station. You must enter the MAC address of the root access point. WEP should be used to protect this communication.
•	**Upgradeable Firmware.** Firmware is stored in a flash memory and can be upgraded easily, using only your Web browser, and can be upgraded remotely.
•	**Access Control.** The Access Control MAC address filtering feature can ensure that only trusted wireless stations can use the WAG102 to gain access to your LAN.
•	**Simple Configuration.** If the default settings are unsuitable, they are easy to change.
•	**Hidden Mode.** The SSID is not broadcast, assuring only clients configured with the correct SSID can connect.
•	**Secure Telnet Command Line Interface.** The Telnet command line interface enables direct access over the serial port and easy scripting of configuration of multiple WAG102s across an extensive network via the Ethernet interface. An SSH client is required.
•	**Configuration Backup.** Configuration settings can be backed up to a file and restored.
•	**Secure and Economical Operation.** Adjustable power output allows more secure or economical operation.
•	**Power over Ethernet.** Power can be supplied to the WAG102 over the Ethernet port from any 802.3af compliant mid-span or end-span source such as the NETGEAR FSM7326P Managed Power over Ethernet Layer 3 managed switch.
•	**Autosensing Ethernet Connection with Auto Uplink Interface.** Connects to 10/100 Mbps IEEE 802.3 Ethernet networks.
•	**LED Indicators.** Power, test, LAN speed, LAN activity, and wireless activity are easily identified.

2.2 RF Specifications

Parameter	**WAG102 ProSafe Dual Band Wireless Access Point**
802.11a Data Rates	6, 9, 12, 18, 24, 36, 48, 54, and 108 Mbps (Auto-rate capable)
802.11a Operating Frequencies	5.15 ~ 5.25 5.25 ~ 5.35 5.57 ~ 5.825
802.11a Encryption	40-bit (also called 64-bit), 128- and 152-bit WEP data encryption
802.11g Data Rates	1, 2, 5.5, 11, 12, 18, 24, 36, 38, 54, & 108 Mbps (Auto-rate capable)
802.11g Operating Frequencies	2.412 ~ 2.462 GHz (US) 2.457 ~ 2.462 GHz (Spain) 2.412 ~ 2.484 GHz (Japan)2.457 ~ 2.472 GHz (France) 2.412 ~ 2.472 GHz (Europe ETSI)
802.11g Encryption	40-bit (also called 64-bit), 128- and 152-bits WEP data encryption
Network Management	Web-based configuration and status monitoring
Maximum Clients	Limited by the amount of wireless network traffic generated by each node; typically 15 to 20 nodes.
Status LEDs	Power/Ethernet LAN/Wireless LAN/Test
Power Adapter	12V DC, 1 A
Electromagnetic Compliance	FCC Part 15 Class B and Class E, CE, and C-TICK
Environmental Specifications	Operating temperature: 0 to 50° C Operating humidity: 5-95%, non-condensing

2.3 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)
- 802.11a (CH LO: 5745MHz)
- 802.11a (CH MID: 5785MHz)
- 802.11a (CH HI: 5825MHz)
- An executive programs, “ART.exe” Application under WIN XP.

For 802.11b/g device:

The test mode of Radiated emission as below:

- Test Model 1: Adapter: DSA-0131F-12

  Test Antenna 1: Antenna gain 5dBi

  Test Antenna 2: Antenna gain 5dBi-ANT2405

  Test Antenna 3: Antenna gain 9dBi- ANT2409

  Test Antenna 4: Antenna gain 18dBi- ANT24D18

- Test Model 2: POE mode

  Test Antenna 1: Antenna gain 5dBi

  Test Antenna 2: Antenna gain 5dBi- ANT2405

  Test Antenna 3: Antenna gain 9dBi- ANT2409

  Test Antenna 4: Antenna gain 18dBi- ANT24D18

For 802.11a device:

- Test Model 1: Adapter: DSA-0131F-12
- Test Model 2: POE mode

2.4 Description of Test System

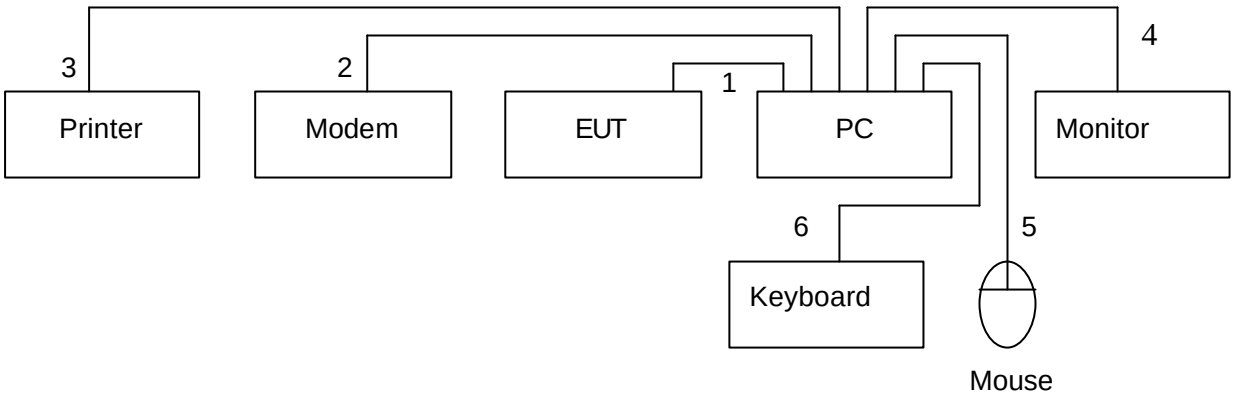
Device	Manufacturer	Model No.	Description
PC	IBM	IGV	Power Cable, Unshielding 1.8 m
Monitor	SlimAGE	510A	Power Cable, Adapter Unshielding 1.8 m Data Cable, VGA shielding 1.35 m
Keyboard	IBM	KB-0225	Data Cable, PS2 shielding 1.85 m
Mouse	IBM	MO28VO	Data Cable, USB shielding 1.85 m
Modem	ACEXX	DM-1414	Power Cable, Adapter Unshielding 1.8 m Data Cable, RS232 shielding 1.35 m
Printer	HP	Desk Jet400	Power Cable, Adapter Unshielding 1.8 m Data Cable, PRINT shielding 1.6 m
POE (Remote site)	Sercomm	FS108P	Power Cable, Adapter Unshielding 1.8 m

Use Cable:

Cable	Description
RJ 45*1	Unshielding, 1.5m
RJ 45*1	Unshielding, 5m

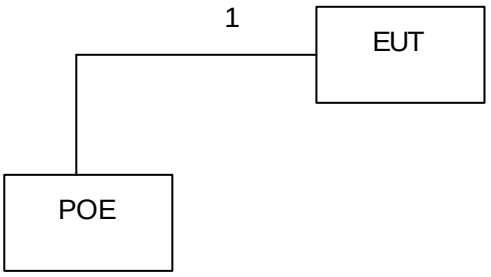
2.5 Connection Diagram of Test System

Test mode 1:



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

Test model 2:



1. The RJ 45 cable is connected from POE to the EUT.

2.6 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 City 223, Taiwan, R.O.C.
Test Voltage:	AC 120V/ 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.

2.7 History of this test report

ORIGINAL.

3. Antenna Requirements

3.1 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.

3.2 Antenna Construction and Directional Gain

For 2.4GHz Band:

Antenna type 1: Reverse SMA connect, Dipole antenna

Antenna Gain: 5dBi.

Antenna type 2: Reverse SMA connector, Ceiling antenna

Antenna model: ANT2405

Antenna Gain: 5dBi

Antenna type 3: Reverse SMA connector, GP Omni-directional antenna

Antenna model: ANT2409

Antenna Gain: 9dBi

Antenna type 4: Reverse SMA connector, Patch antenna

Antenna model: ANT24D18

Antenna Gain: 18dBi.

For 5GHz Band:

Antenna type 1: Reverse SMA connect, Dipole antenna

Antenna Gain: 5dBi.

4. Test of Conducted Emission (For 802.11b/g device)

4.1 Test Limit

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.

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

*Decreases with the logarithm of the frequency.

4.2 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.

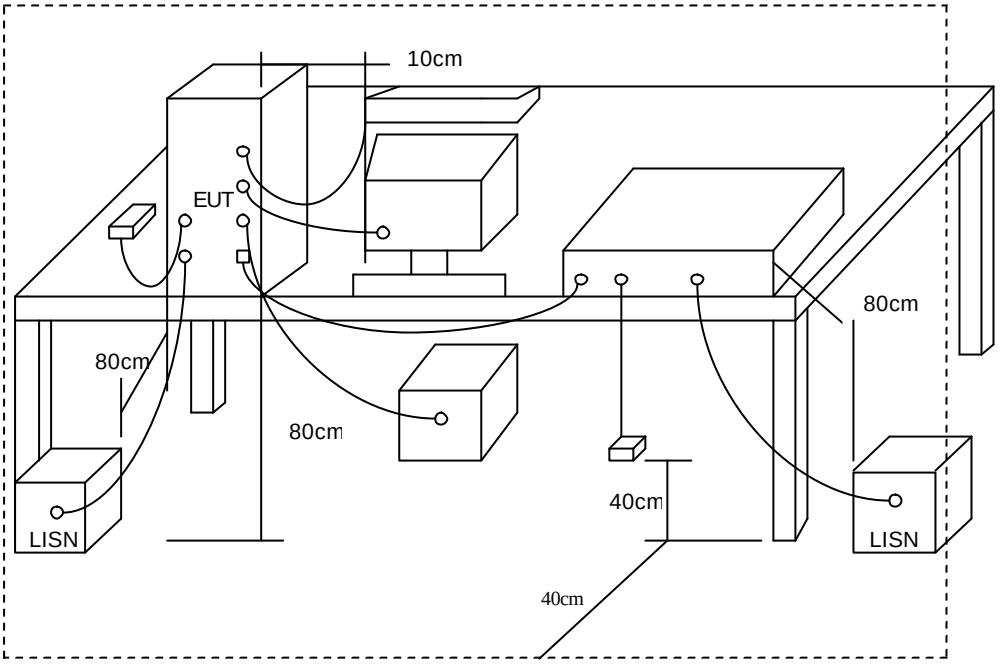
e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.

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.

4.3 Typical Test Setup

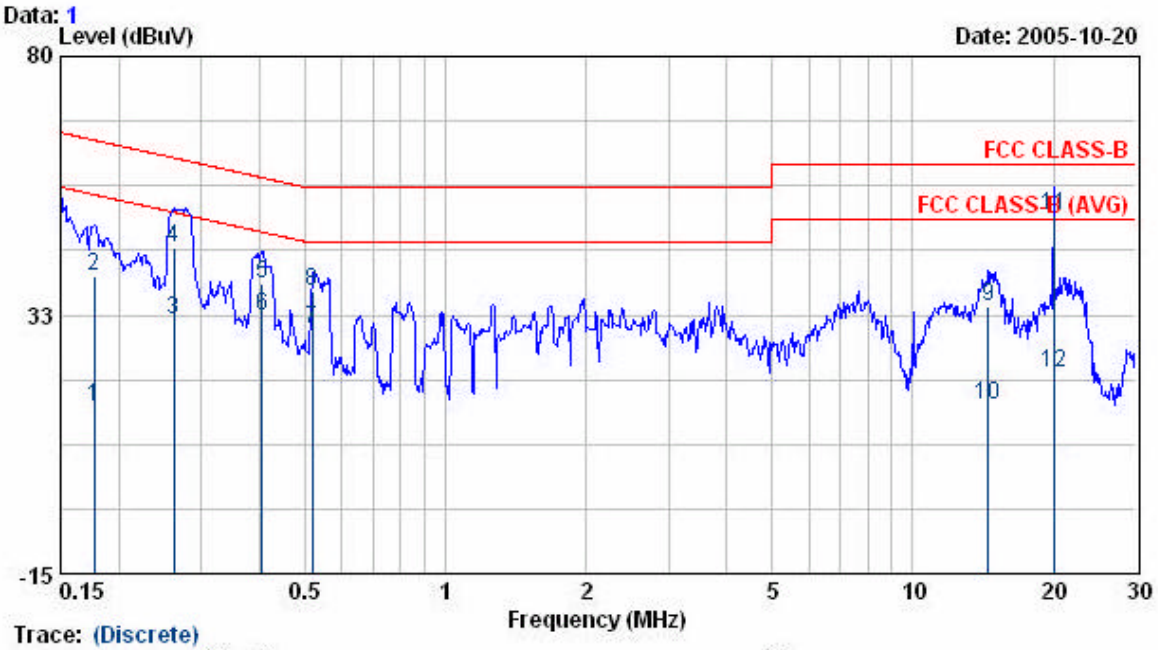


4.4 Measurement equipment

Instrument/Ancillary	Type	Manufacturer	Next Cal. Dat
Receiver	SCR3501	Schaffner	2005/11/03
LISN	NNB-2/16Z	MESS TEC	2006/03/30
LISN	NNB-2/16Z	ROLF HEINE	2006/05/01

4.5 Test Result and Data

EUT	: WAG102	Pol/Phase	: NEUTRAL
Power	: AC 120V	Temperature	: 25 ℃
Test Mode	: 802.11b CH1	Humidity	: 57 %
Memo	: DSA-0131F-12		

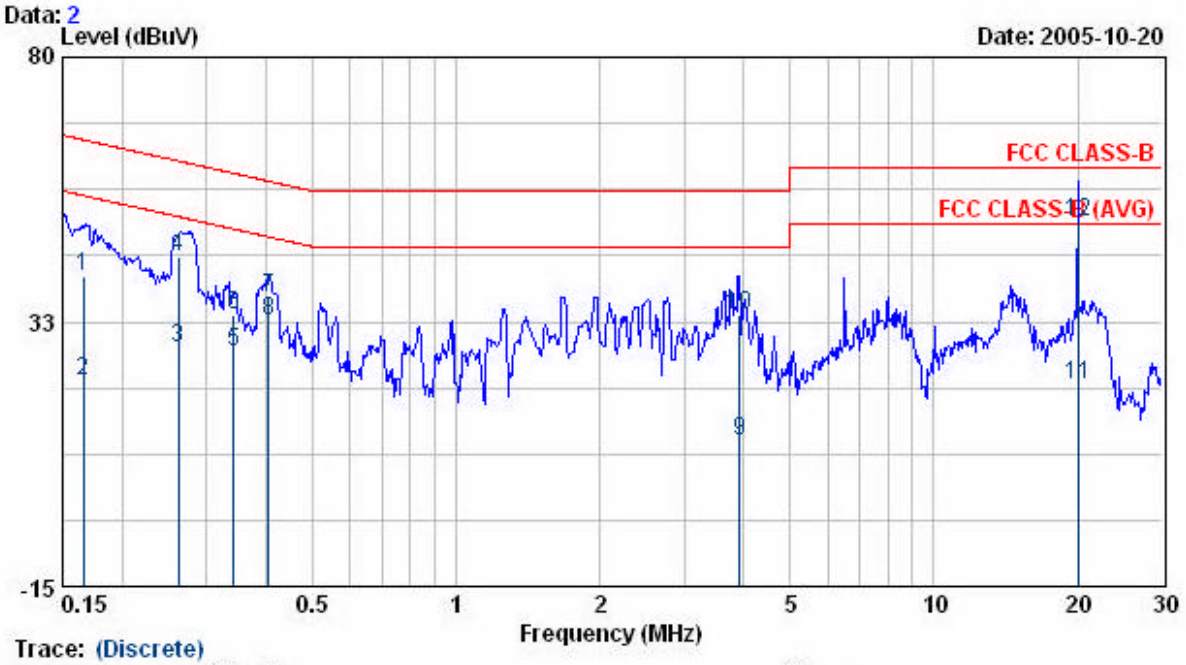


Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.18	15.32	0.25	15.57	54.63	-39.06	AVERAGE
0.18	39.26	0.25	39.51	64.63	-25.12	QP
0.26	31.39	0.32	31.71	51.37	-19.66	AVERAGE
0.26	44.47	0.32	44.79	61.37	-16.58	QP
0.40	37.79	0.50	38.29	57.77	-19.48	QP
0.40	31.73	0.50	32.23	47.77	-15.54	AVERAGE
0.52	29.48	0.50	29.98	46.00	-16.02	AVERAGE
0.52	36.37	0.50	36.87	56.00	-19.13	QP
14.53	33.26	0.88	34.14	60.00	-25.86	QP
14.53	15.05	0.88	15.93	50.00	-34.07	AVERAGE
20.00	49.81	0.80	50.61	60.00	-9.39	QP
20.00	21.13	0.80	21.93	50.00	-28.07	AVERAGE

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

EUT	: WAG102		
Power	: AC 120V	Pol/Phase	: LINE
Test Mode	: 802.11b CH1	Temperature	: 25 ℃
Memo	: DSA-0131F-12	Humidity	: 57 %



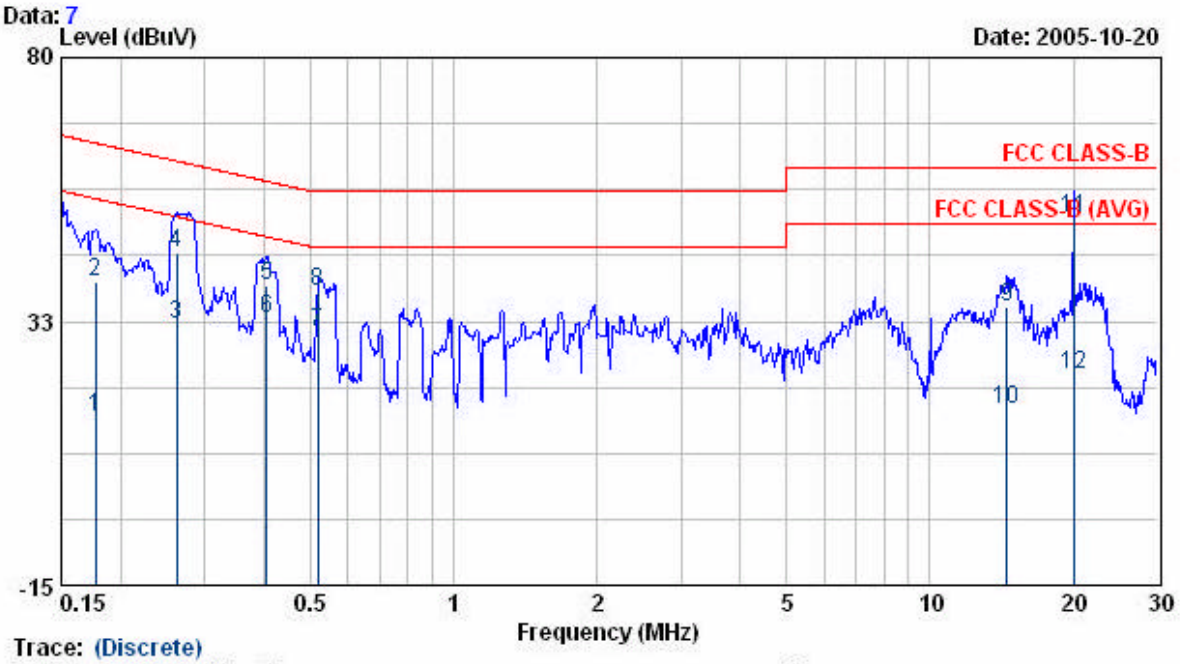
Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.17	40.17	0.35	40.52	65.18	-24.66	QP
0.17	21.39	0.35	21.74	55.18	-33.44	AVERAGE
0.26	27.54	0.42	27.96	51.36	-23.40	AVERAGE
0.26	43.65	0.42	44.07	61.36	-17.29	QP
0.34	26.44	0.53	26.97	49.15	-22.18	AVERAGE
0.34	33.25	0.53	33.78	59.15	-25.37	QP
0.40	36.30	0.60	36.90	57.77	-20.87	QP
0.40	32.08	0.60	32.68	47.77	-15.09	AVERAGE
3.92	10.46	0.70	11.16	46.00	-34.84	AVERAGE
3.92	32.85	0.70	33.55	56.00	-22.45	QP
20.00	20.43	0.60	21.03	50.00	-28.97	AVERAGE
20.00	49.83	0.60	50.43	60.00	-9.57	QP

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

EUT : WAG102
Power : AC 120V
Test Mode : 802.11b CH6
Memo : DSA-0131F-12

Pol/Phase : NEUTRAL
Temperature : 25 ℃
Humidity : 57 %



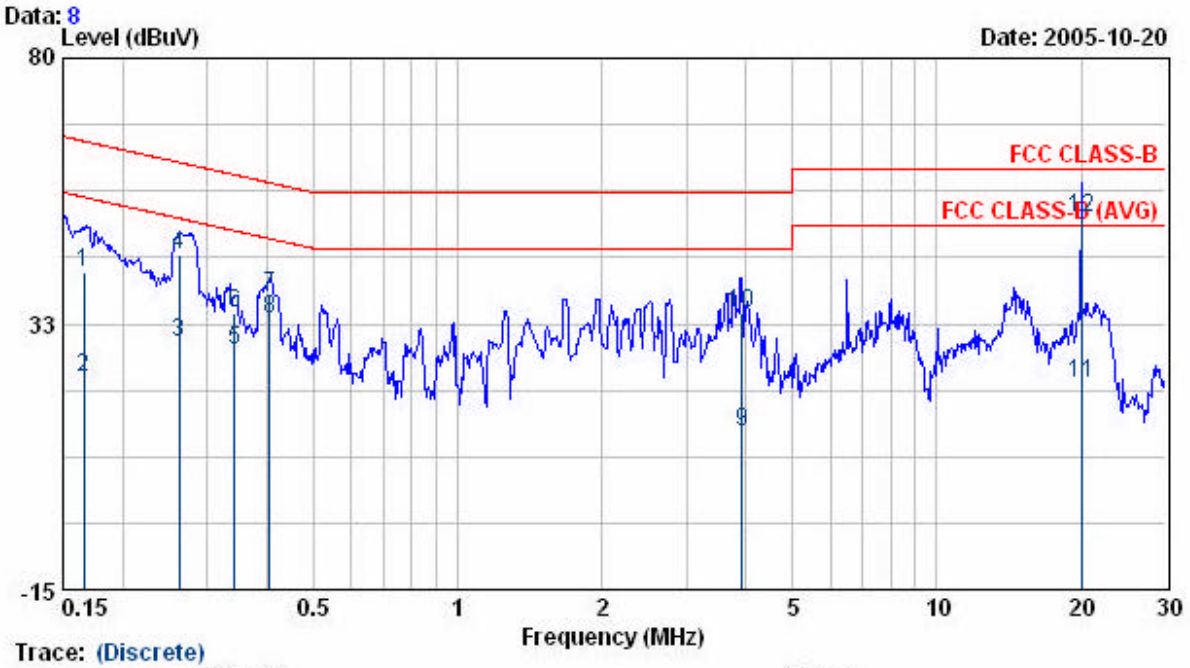
Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.18	15.18	0.25	15.43	54.63	-39.20	AVERAGE
0.18	39.49	0.25	39.74	64.63	-24.89	QP
0.26	31.64	0.32	31.96	51.37	-19.41	AVERAGE
0.26	44.61	0.32	44.93	61.37	-16.44	QP
0.40	38.61	0.50	39.11	57.77	-18.66	QP
0.40	32.43	0.50	32.93	47.77	-14.84	AVERAGE
0.52	30.14	0.50	30.64	46.00	-15.36	AVERAGE
0.52	37.44	0.50	37.94	56.00	-18.06	QP
14.53	34.11	0.88	34.99	60.00	-25.01	QP
14.53	15.77	0.88	16.65	50.00	-33.35	AVERAGE
20.00	50.16	0.80	50.96	60.00	-9.04	QP
20.00	22.19	0.80	22.99	50.00	-27.01	AVERAGE

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

EUT : WAG102
Power : AC 120V
Test Mode : 802.11b CH6
Memo : DSA-0131F-12

Pol/Phase : LINE
Temperature : 25 ℃
Humidity : 57 %



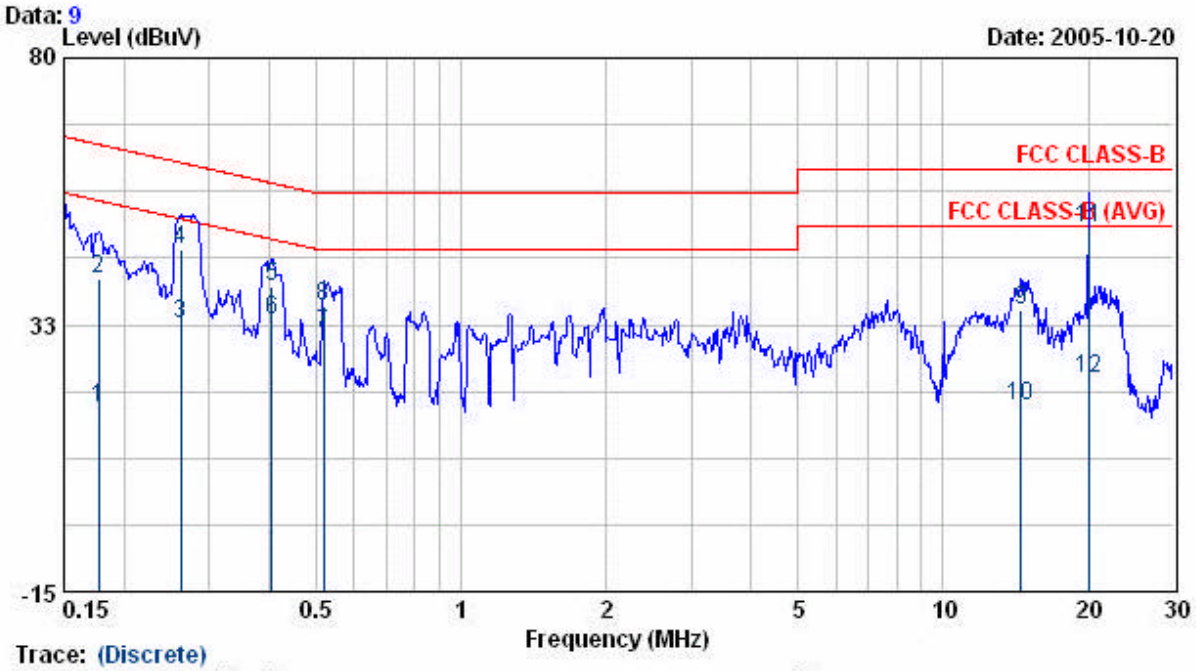
Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.17	41.28	0.35	41.63	65.18	-23.55	QP
0.17	22.61	0.35	22.96	55.18	-32.22	AVERAGE
0.26	28.61	0.42	29.03	51.36	-22.33	AVERAGE
0.26	44.54	0.42	44.96	61.36	-16.40	QP
0.34	27.19	0.53	27.72	49.15	-21.43	AVERAGE
0.34	33.87	0.53	34.40	59.15	-24.75	QP
0.40	36.87	0.60	37.47	57.77	-20.30	QP
0.40	32.77	0.60	33.37	47.77	-14.40	AVERAGE
3.92	12.46	0.70	13.16	46.00	-32.84	AVERAGE
3.92	33.64	0.70	34.34	56.00	-21.66	QP
20.00	21.43	0.60	22.03	50.00	-27.97	AVERAGE
20.00	50.83	0.60	51.43	60.00	-8.57	QP

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

EUT : WAG102
Power : AC 120V
Test Mode : 802.11b CH11
Memo : DSA-0131F-12

Pol/Phase : NEUTRAL
Temperature : 25 ℃
Humidity : 57 %



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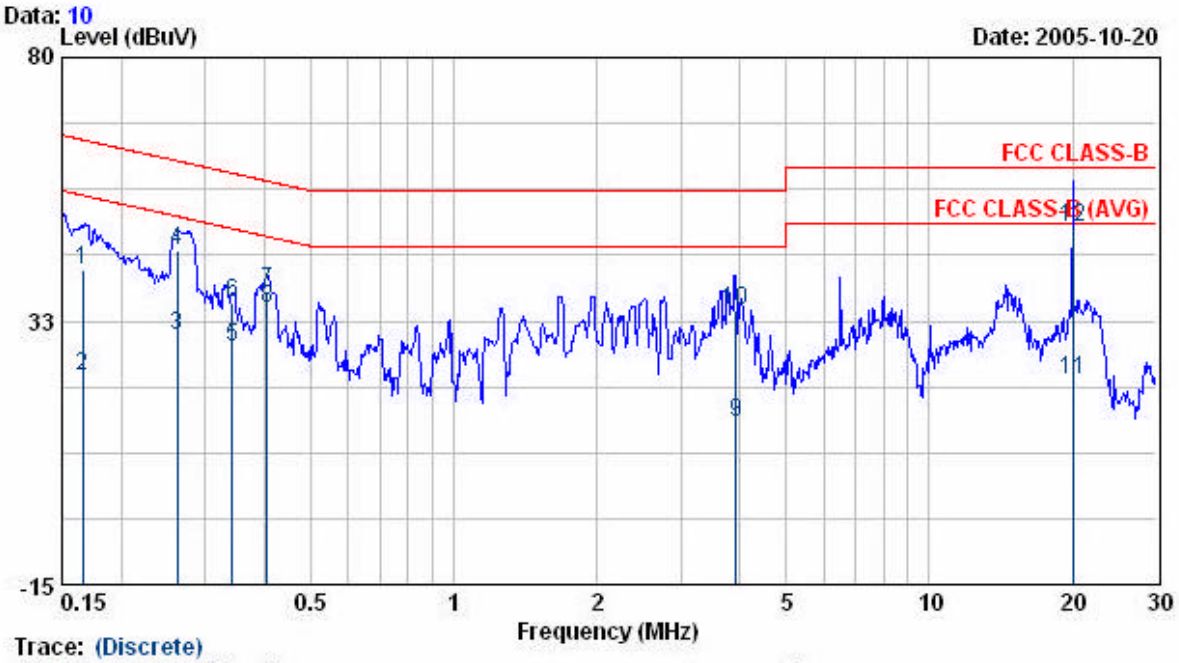
Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.18	17.32	0.25	17.57	54.63	-37.06	AVERAGE
0.18	40.26	0.25	40.51	64.63	-24.12	QP
0.26	32.39	0.32	32.71	51.37	-18.66	AVERAGE
0.26	45.47	0.32	45.79	61.37	-15.58	QP
0.40	38.79	0.50	39.29	57.77	-18.48	QP
0.40	32.73	0.50	33.23	47.77	-14.54	AVERAGE
0.52	30.48	0.50	30.98	46.00	-15.02	AVERAGE
0.52	35.37	0.50	35.87	56.00	-20.13	QP
14.53	34.26	0.88	35.14	60.00	-24.86	QP
14.53	17.05	0.88	17.93	50.00	-32.07	AVERAGE
20.00	48.81	0.80	49.61	60.00	-10.39	QP
20.00	22.13	0.80	22.93	50.00	-27.07	AVERAGE

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

EUT : WAG102
Power : AC 120V
Test Mode : 802.11b CH11
Memo : DSA-0131F-12

Pol/Phase : LINE
Temperature : 25 ℃
Humidity : 57 %



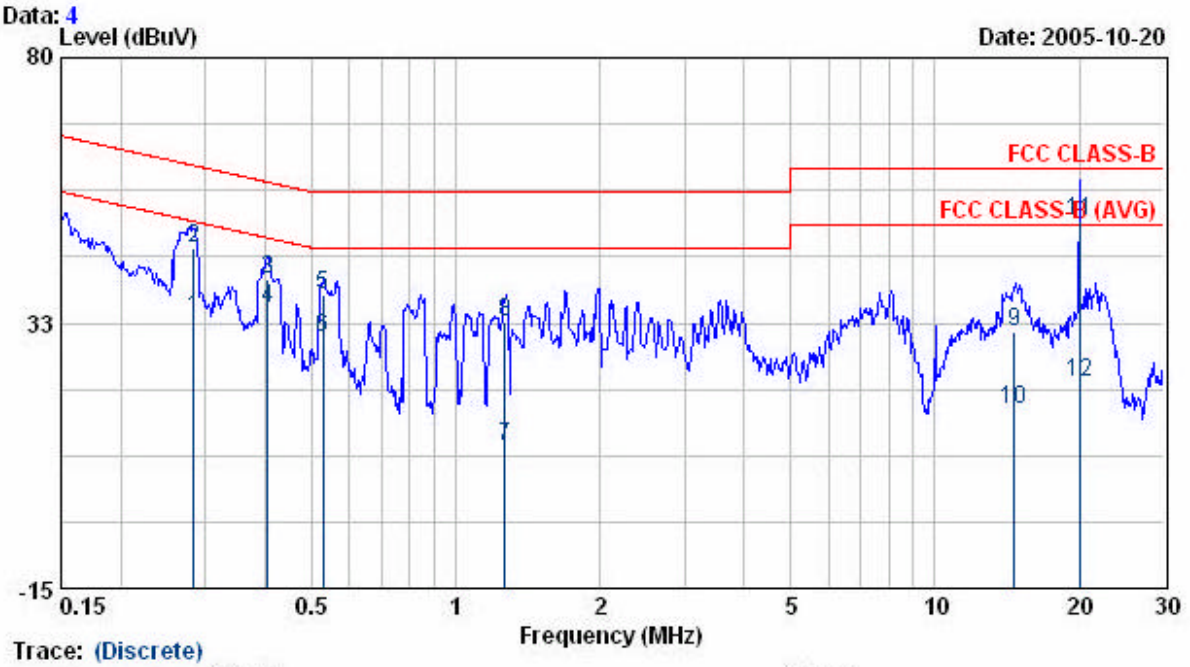
Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.17	41.24	0.35	41.59	65.18	-23.59	QP
0.17	22.39	0.35	22.74	55.18	-32.44	AVERAGE
0.26	29.54	0.42	29.96	51.36	-21.40	AVERAGE
0.26	44.65	0.42	45.07	61.36	-16.29	QP
0.34	27.44	0.53	27.97	49.15	-21.18	AVERAGE
0.34	35.25	0.53	35.78	59.15	-23.37	QP
0.40	37.30	0.60	37.90	57.77	-19.87	QP
0.40	34.08	0.60	34.68	47.77	-13.09	AVERAGE
3.92	13.46	0.70	14.16	46.00	-31.84	AVERAGE
3.92	33.85	0.70	34.55	56.00	-21.45	QP
20.00	21.43	0.60	22.03	50.00	-27.97	AVERAGE
20.00	48.83	0.60	49.43	60.00	-10.57	QP

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

EUT : WAG102
Power : AC 120V
Test Mode : 802.11g CH1
Memo : DSA-0131F-12

Pol/Phase : NEUTRAL
Temperature : 25 ℃
Humidity : 57 %

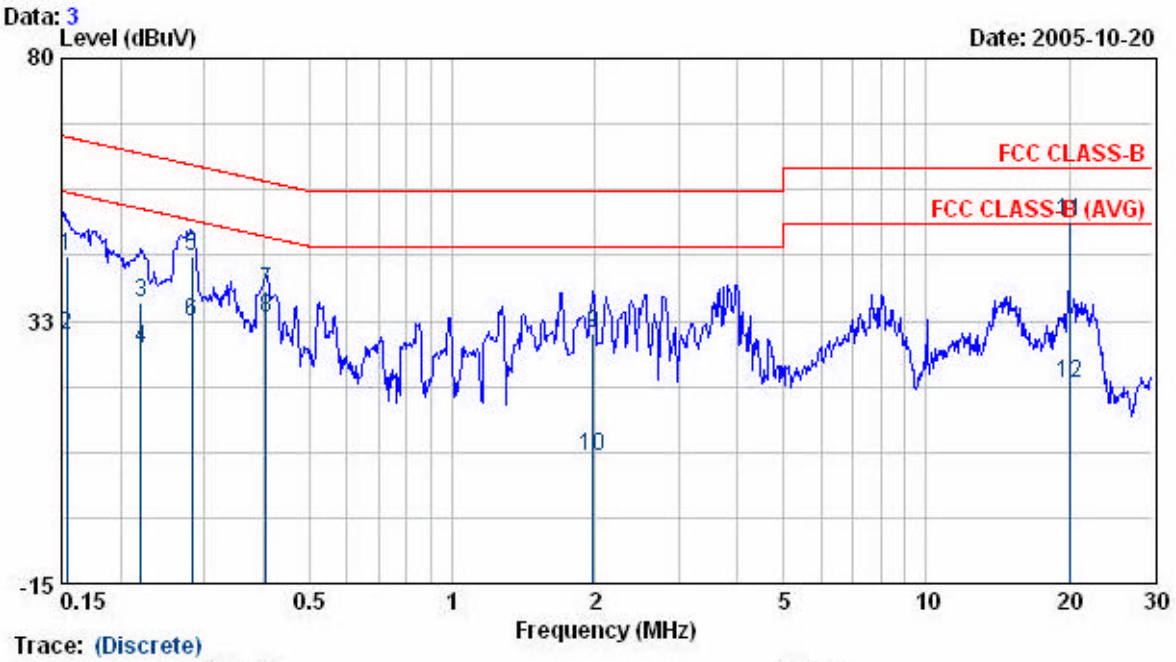


Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.28	33.14	0.35	33.49	50.70	-17.21	AVERAGE
0.28	45.49	0.35	45.84	60.70	-14.86	QP
0.41	39.74	0.50	40.24	57.74	-17.50	QP
0.41	34.75	0.50	35.25	47.74	-12.49	AVERAGE
0.53	36.91	0.50	37.41	56.00	-18.59	QP
0.53	29.44	0.50	29.94	46.00	-16.06	AVERAGE
1.27	10.01	0.53	10.54	46.00	-35.46	AVERAGE
1.27	32.29	0.53	32.82	56.00	-23.18	QP
14.63	30.15	0.88	31.03	60.00	-28.97	QP
14.63	16.15	0.88	17.03	50.00	-32.97	AVERAGE
20.00	50.04	0.80	50.84	60.00	-9.16	QP
20.00	21.11	0.80	21.91	50.00	-28.09	AVERAGE

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

EUT	: WAG102		
Power	: AC 120V	Pol/Phase	: LINE
Test Mode	: 802.11g CH1	Temperature	: 25 ℃
Memo	: DSA-0131F-12	Humidity	: 57 %



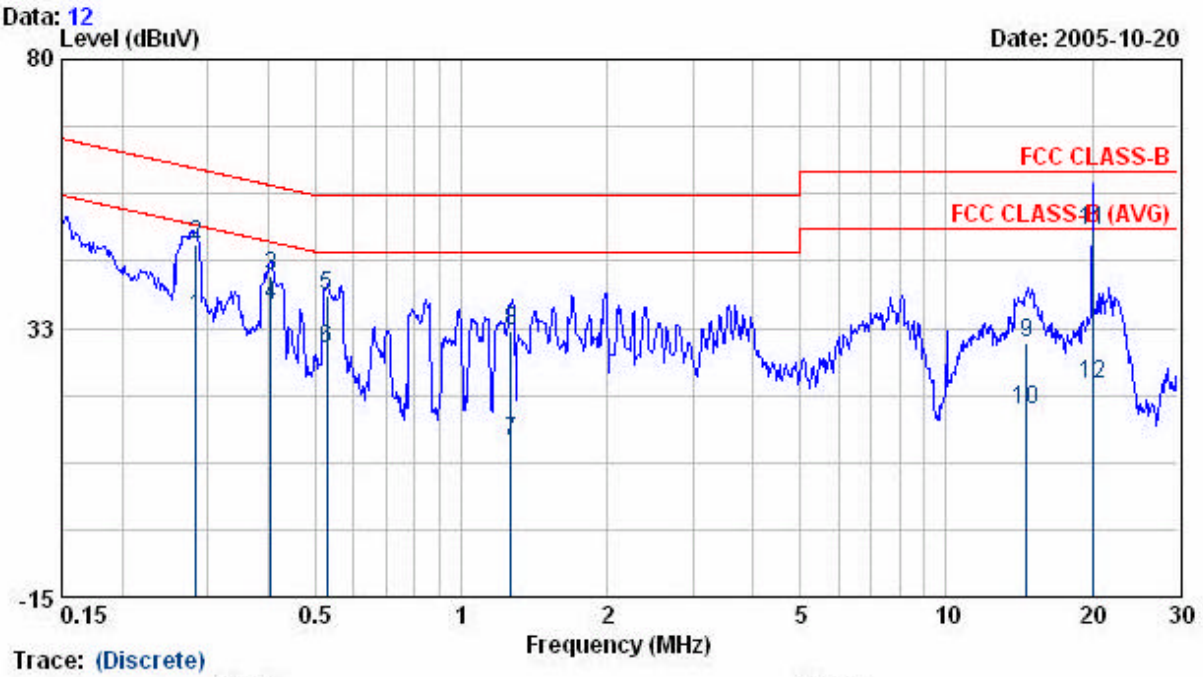
Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.15	43.67	0.38	44.05	65.78	-21.74	QP
0.15	29.67	0.38	30.05	55.78	-25.74	AVERAGE
0.22	35.41	0.34	35.75	62.79	-27.04	QP
0.22	27.08	0.34	27.42	52.79	-25.37	AVERAGE
0.28	43.56	0.45	44.01	60.74	-16.74	QP
0.28	31.99	0.45	32.44	50.74	-18.31	AVERAGE
0.41	37.23	0.60	37.83	57.75	-19.92	QP
0.41	32.48	0.60	33.08	47.75	-14.67	AVERAGE
1.98	29.67	0.70	30.37	56.00	-25.63	QP
1.98	7.39	0.70	8.09	46.00	-37.91	AVERAGE
20.00	49.80	0.60	50.40	60.00	-9.60	QP
20.00	20.50	0.60	21.10	50.00	-28.90	AVERAGE

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

EUT : WAG102
Power : AC 120V
Test Mode : 802.11g CH6
Memo : DSA-0131F-12

Pol/Phase : NEUTRAL
Temperature : 25 ℃
Humidity : 57 %



Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.28	34.14	0.35	34.49	50.70	-16.21	AVERAGE
0.28	46.77	0.35	47.12	60.70	-13.58	QP
0.41	41.22	0.50	41.72	57.74	-16.02	QP
0.41	35.97	0.50	36.47	47.74	-11.27	AVERAGE
0.53	37.91	0.50	38.41	56.00	-17.59	QP
0.53	28.44	0.50	28.94	46.00	-17.06	AVERAGE
1.27	12.01	0.53	12.54	46.00	-33.46	AVERAGE
1.27	31.29	0.53	31.82	56.00	-24.18	QP
14.63	29.15	0.88	30.03	60.00	-29.97	QP
14.63	17.15	0.88	18.03	50.00	-31.97	AVERAGE
20.00	48.87	0.80	49.67	60.00	-10.33	QP
20.00	21.84	0.80	22.64	50.00	-27.36	AVERAGE

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