FCC TEST REPORT

according to

FCC Rules and Regulations

Part 15 Subpart C

Applicant	General Instrument Corp.
Address	Horsham, PA 19044, USA
Equipment	IP CAMERA / STATIC VIEW / 802.11g
Model No.	IPC1500
FCC ID	ACQIPC1500
Trade Name	Motorola

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.

Contents

CERTIFICATE OF COMPLIANCE

according to

FCC Rules and Regulations

Part 15 Subpart C

Applicant	General Instrument Corp.
Address	Horsham, PA 19044, USA
Equipment	IP CAMERA / STATIC VIEW / 802.11g
Model No.	IPC1500
FCC ID	ACQIPC1500

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 May. 20, 2005 at ***E****xclusive* ***C****ertification* ***C****orp.*

Signature

Anson Chou Jun. 18, 2005

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

Dimensions	164 mm (L) * 88 mm (W)* 54 mm (H) 6.4 inch (L) * 3.5 inch (W) * 2.1 inch (H)
Operating Temperature	0 °C to 40 ° C
Storage Temperature	-10 °C to 70 ° C
Network Protocols:	TCP/IP, DHCP, SMTP, NTP, HTTP
Network Interface:	1 Ethernet 10/100BaseT (RJ45) LAN connection
Wireless interface	IEEE 802.11b/802.11g compatible, Infrastructure/Ad-hoc mode, WEP/WPA-PSK security support, roaming support
LEDs	3
Power Adapter	5V DC External

2.2 RF Module Specifications

Standard	IEEE 802.11b, IEEE 802.11g Standard
Chipset	TI TNETTW1130 MAC with Baseband processor
RF Chip	Transceiver, RADIA, RC2422; ISM, RADIA, RC2326
Host Interface	VLYNQ Interface
Wireless system power	3.3V, 1.8V I/O Supply, 2.85V, RF Supply, 1.5V Core Supply,+/- 5%
Frequency Range	2.412GHz-2.4835GHz
Modulation	11g:Orthogonal Frequency Division Multiplexing(OFDM) 54Mbps/48Mbps:QAM-64 36Mbps/24Mbps:QAM-16 18Mbps/12Mbps:QPSK 9Mbps/6Mbps:BPSK 11b+: Packet Binary Convolution Coding (PBCC) 22Mbps/11Mbps/5.5Mbps:PBCC 11b:Direct Sequence Spread Spectrum (DSSS) 11Mbps/5.5Mbps:CCk 2Mbps:DQPSK 1Mbps:DBPSK
Number of Selectable Channels	USA, Canada (FCC): 11 channels (2.412GHz~2.462GHz) Europe (CE): 13 channels (2.412GHz~2.472GHz) Japan (TELEC): 14 channels (2.412GHz~2.4835GHz)
Preamble	802.11b: Both Short and Long preamble 802.11g: Long preamble only
Throughput	TX: 15Mbps(minimum) and RX:18Mbps (minimum) at 54Mbps
Security	Hardware-Based Encryption/Decryption Using 64-, 128-, and 256-Bit Wired-Equivalent Privacy (WEP) Keys
Output Power	54Mbps OFDM: +12~ 14dBm; 11Mbps CCK: 18dBm
Receiver Sensitivity	-72dBm at 54Mpbs, 10% PER -72dBm at 48Mpbs, 10% PER -75dBm at 36Mpbs, 10% PER -79dBm at 24Mpbs, 10% PER -82dBm at 18Mpbs, 10% PER -83dBm at 22Mbps, 8% PER -84dBm at 12Mpbs, 10% PER -82dBm at 11Mpbs, 8% PER -87dBm at 9Mpbs, 10% PER -88dBm at 6Mbps, 10% PER -85dBm at 5.5Mpbs, 8% PER -86dBm at 2Mpbs, 8% PER -89dBm at 1Mpbs, 8% PER
Range	Indoors: up to 100meters; Outdoors: up to 400meters
Media Access Protocol	Media Access Protocol
Physical Specifications	Weight: 10g Dimension: 59.75 (L) x 44.6(W) mm
Environment Specifications	Operating Temperature: -5~60°C ambient temperature Storage Temperature: -5~60°C ambient temperature Operating humidity: 90% maximum (non-condensing) Storage humidity: 90% maximum (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)
- An executive programs, “telnet.exe” Application under WIN XP.
- The Radiated test include two kind of antenna:

Antenna type 1 : Reverse SMA connector, dipole antenna.

Antenna gain : 2 dBi

Antenna type 2 : Integral PIFA antenna

Antenna gain : 0 dBi

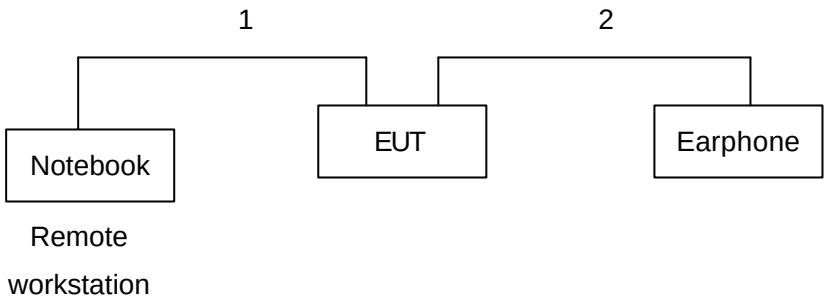
2.4 Description of Test System

Device	Manufacturer	Model No.	Description
PC (Remote Site)	IBM	IGV	Power Cable, Adapter Unshielding 1.8 m
Monitor (Remote Site)	SlimAGE	510A	Power Cable, Adapter Unshielding 1.8 m Data Cable, VGA, shielding 1.35 m
Keyboard (Remote Site)	IBM	KB-0225	Data Cable, PS2 shielding 1.85 m
Mouse (Remote Site)	IBM	MO28VO	Data Cable, USB shielding 1.85 m
Notebook (Remote Site)	IBM	R40(2723-BV1)	Power Cable, Adapter Unshielding 1.8 m
Earphone	MIC	MIC-4	Data Cable, Unshielding 1.6 m

Use Cable:

Cable	Description
LAN(RJ45)	Unshielding, 4.8m

2.5 Connection Diagram of Test System



1. The I/O cable is connected form remote workstation to the EUT.
2. The RJ 45 cable is connected from EUT to the Earphone.

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 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.

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

Antenna type 1: Reverse SMA connector, dipole antenna

Antenna Gain: 2 dBi

Antenna type 2: Integral PIFA antenna

Antenna Gain: 0 dBi

4. Test of Conducted Emission

4.1 Test Limit

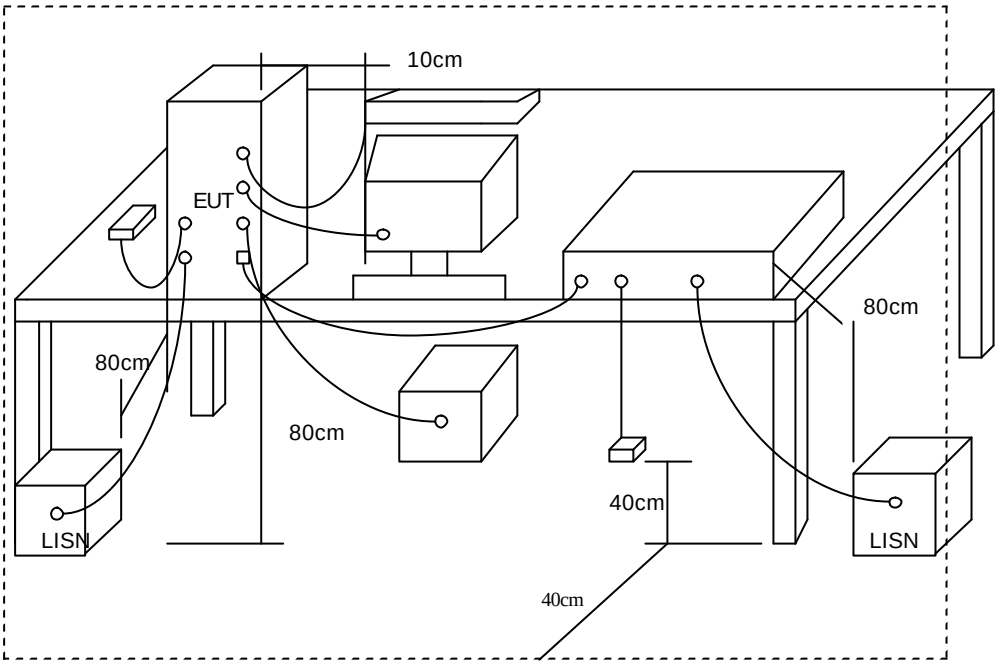
Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 115 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 4.2. 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

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



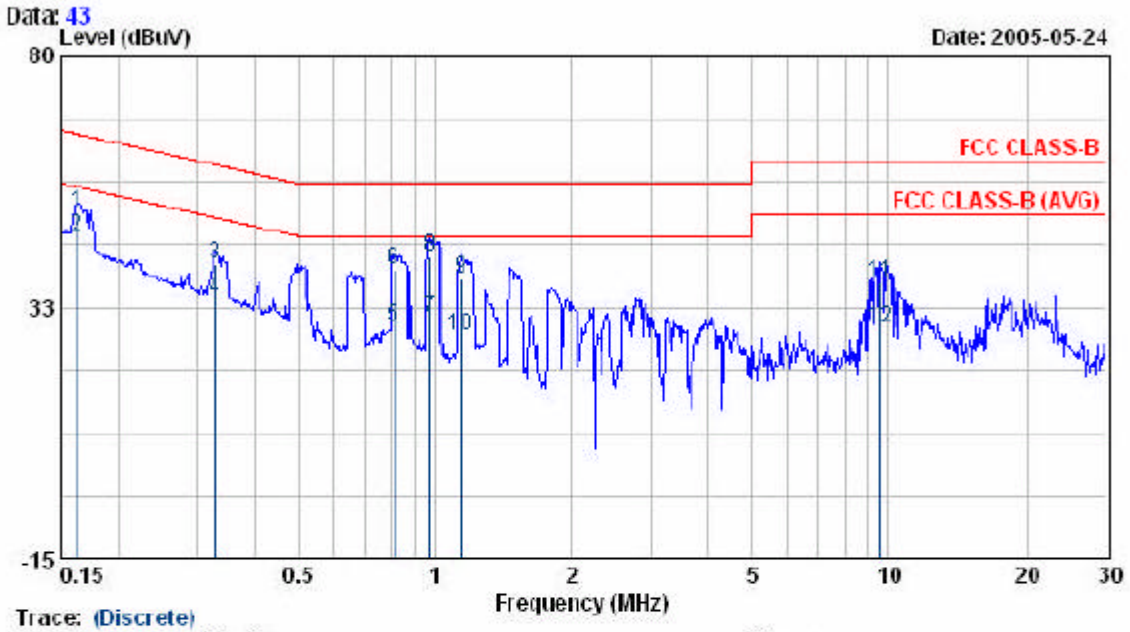
4.4 Measurement equipment

Instrument/Ancillary	Type	Manufacturer	Valid Date.
Receiver	SCR3501	Schaffner	2005/11/03
LISN	NNB-2/16Z	ROLF HEINE	2006/03/30
LISN	ROLF HEINE	NNB-2/16Z	2006/05/01

4.5 Test Result and Data

EUT : IPC1500
Power : AC:110V
Test Mode : 802.11b CH 1
Memo :

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



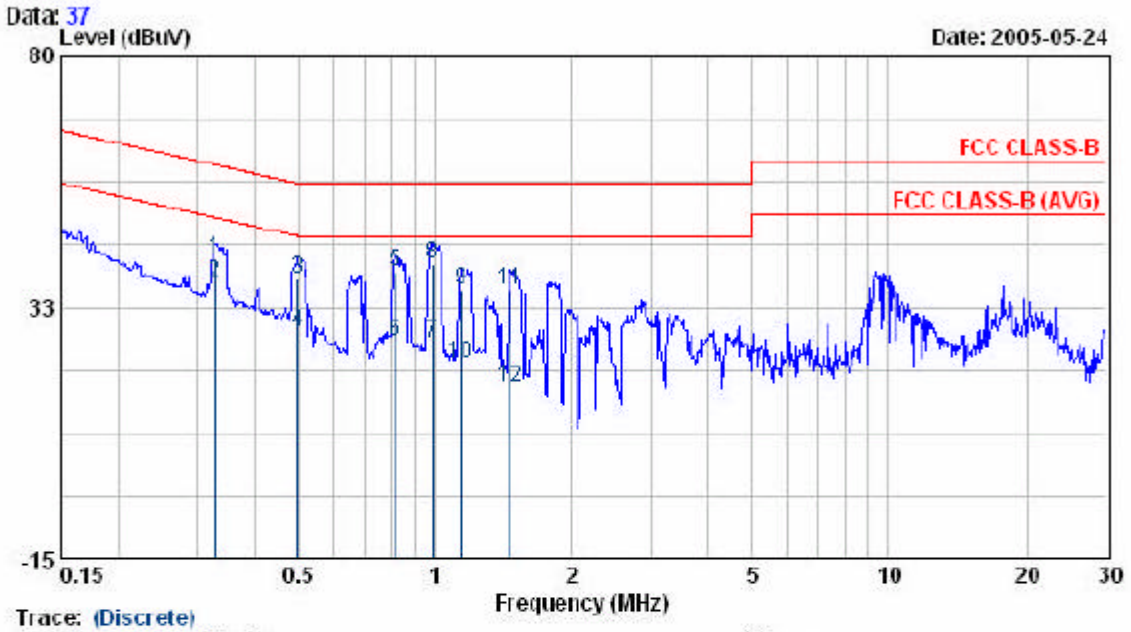
Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.16	50.18	0.26	50.44	65.34	-14.90	QP
0.16	45.77	0.26	46.03	55.34	-9.31	AVERAGE
0.33	40.33	0.41	40.74	59.51	-18.76	QP
0.33	33.59	0.41	34.00	49.51	-15.50	AVERAGE
0.81	28.47	0.42	28.89	46.00	-17.11	AVERAGE
0.81	39.17	0.42	39.59	56.00	-16.41	QP
0.98	30.04	0.40	30.44	46.00	-15.56	AVERAGE
0.98	41.81	0.40	42.21	56.00	-13.79	QP
1.14	37.50	0.42	37.92	56.00	-18.08	QP
1.14	26.53	0.42	26.95	46.00	-19.05	AVERAGE
9.59	36.69	0.50	37.19	60.00	-22.81	QP
9.59	28.01	0.50	28.51	50.00	-21.49	AVERAGE

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

EUT : IPC1500
Power : AC:110V
Test Mode : 802.11b CH 1
Memo :

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



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Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.33	41.35	0.41	41.76	59.51	-17.74	QP
0.33	36.65	0.41	37.06	49.51	-12.44	AVERAGE
0.50	37.58	0.48	38.06	56.06	-18.00	QP
0.50	27.30	0.48	27.78	46.06	-18.28	AVERAGE
0.82	38.85	0.42	39.27	56.00	-16.73	QP
0.82	25.69	0.42	26.11	46.00	-19.89	AVERAGE
0.99	25.48	0.40	25.88	46.00	-20.12	AVERAGE
0.99	40.28	0.40	40.68	56.00	-15.32	QP
1.14	35.49	0.42	35.91	56.00	-20.09	QP
1.14	21.49	0.42	21.91	46.00	-24.09	AVERAGE
1.47	35.28	0.46	35.74	56.00	-20.26	QP
1.47	16.94	0.46	17.40	46.00	-28.60	AVERAGE

Remarks: 1. Level = Read Level + Factor
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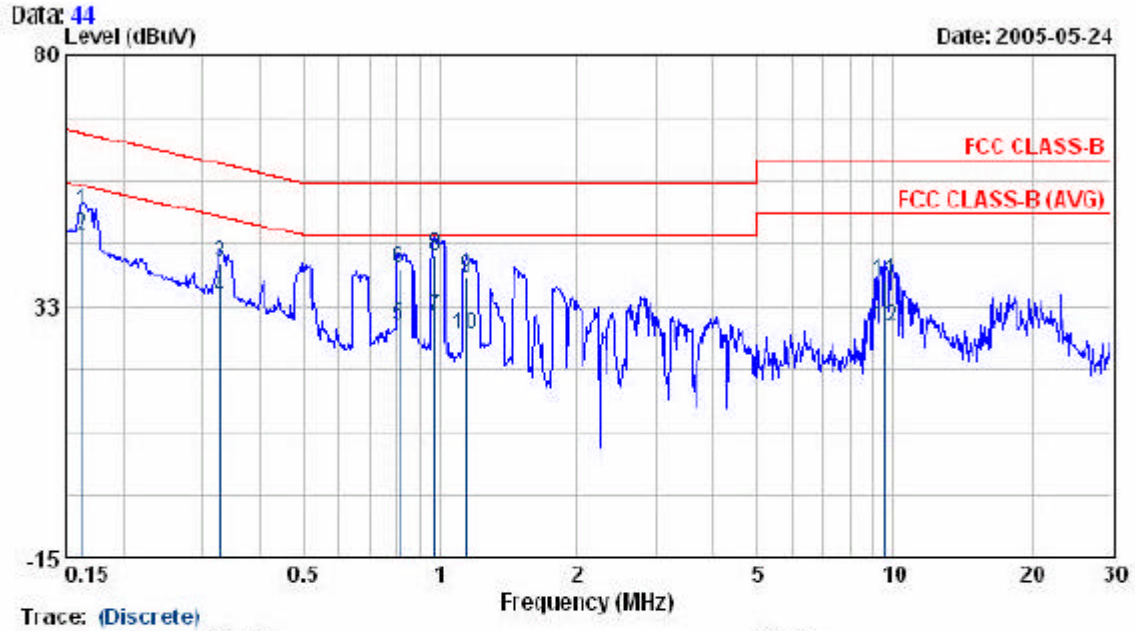
EUT : IPC1500
Power : AC:110V
Test Mode : 802.11b CH 6
Memo :

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



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0.33	40.33	0.41	40.74	59.51	-18.76	QP
0.33	33.59	0.41	34.00	49.51	-15.50	AVERAGE
0.81	28.47	0.42	28.89	46.00	-17.11	AVERAGE
0.81	39.17	0.42	39.59	56.00	-16.41	QP
0.98	30.04	0.40	30.44	46.00	-15.56	AVERAGE
0.98	41.81	0.40	42.21	56.00	-13.79	QP
1.14	37.50	0.42	37.92	56.00	-18.08	QP
1.14	26.53	0.42	26.95	46.00	-19.05	AVERAGE
9.59	36.69	0.50	37.19	60.00	-22.81	QP
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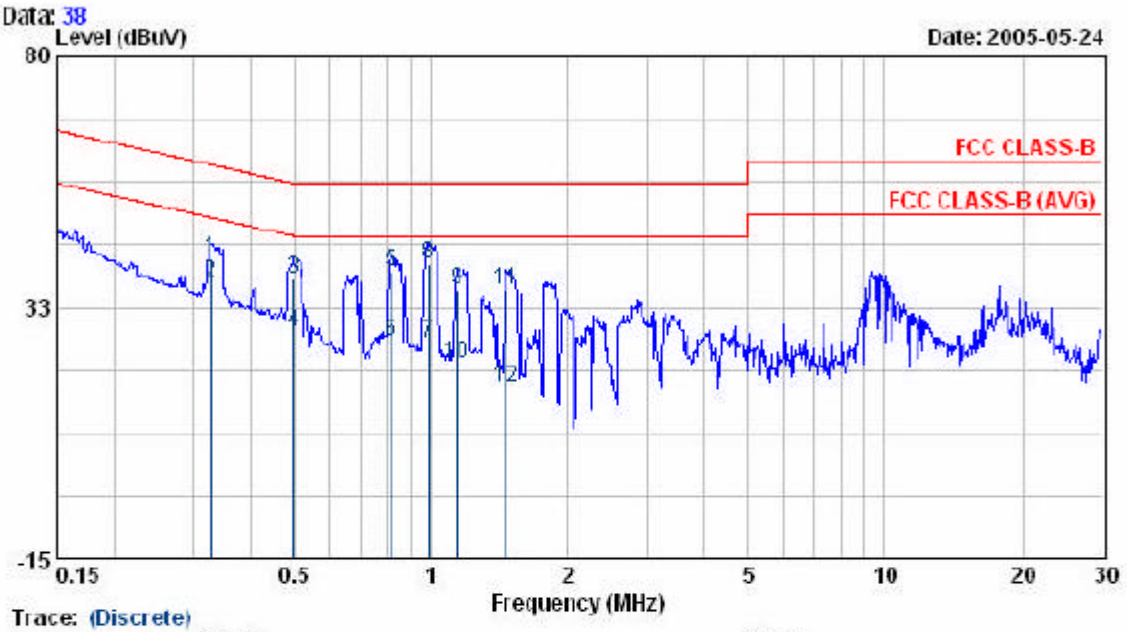
EUT : IPC1500
Power : AC:110V
Test Mode : 802.11b CH 6
Memo :

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



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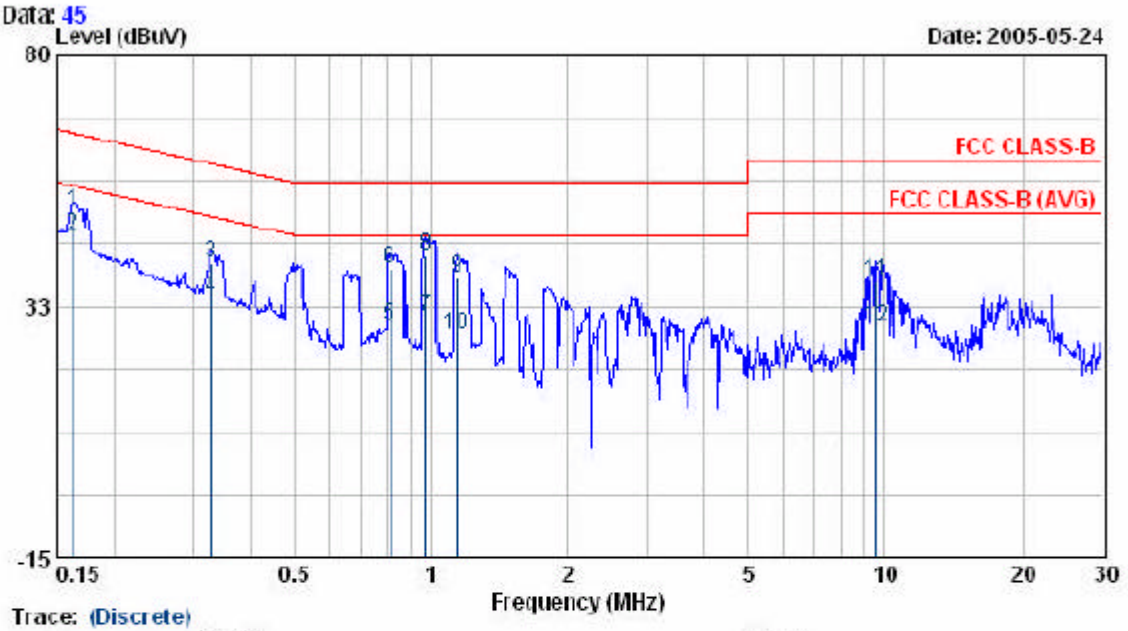
EUT : IPC1500
Power : AC:110V
Test Mode : 802.11b CH 11
Memo :

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



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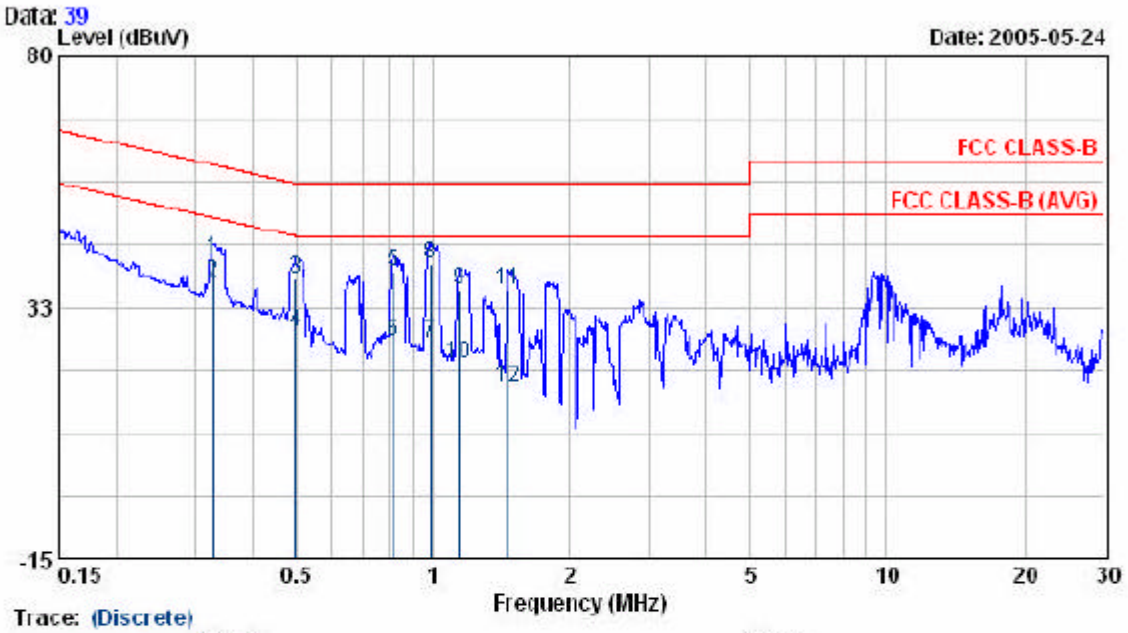
EUT : IPC1500
Power : AC:110V
Test Mode : 802.11b CH 11
Memo :

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



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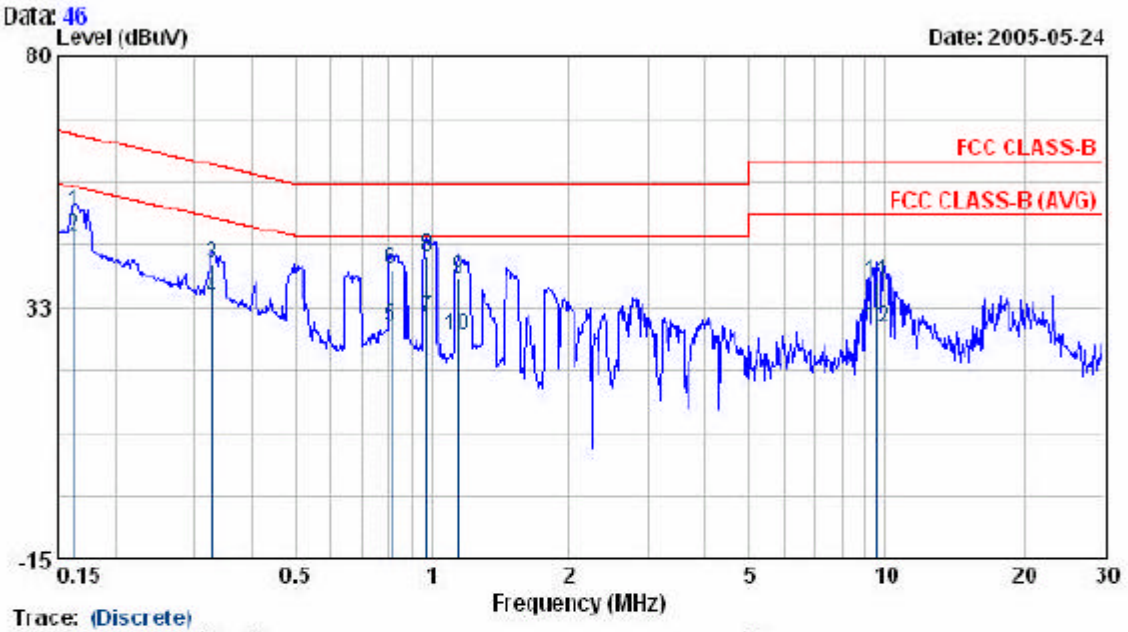
EUT : IPC1500
Power : AC:110V
Test Mode : 802.11g CH 1
Memo :

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



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Test Mode : 802.11g CH 1
Memo :

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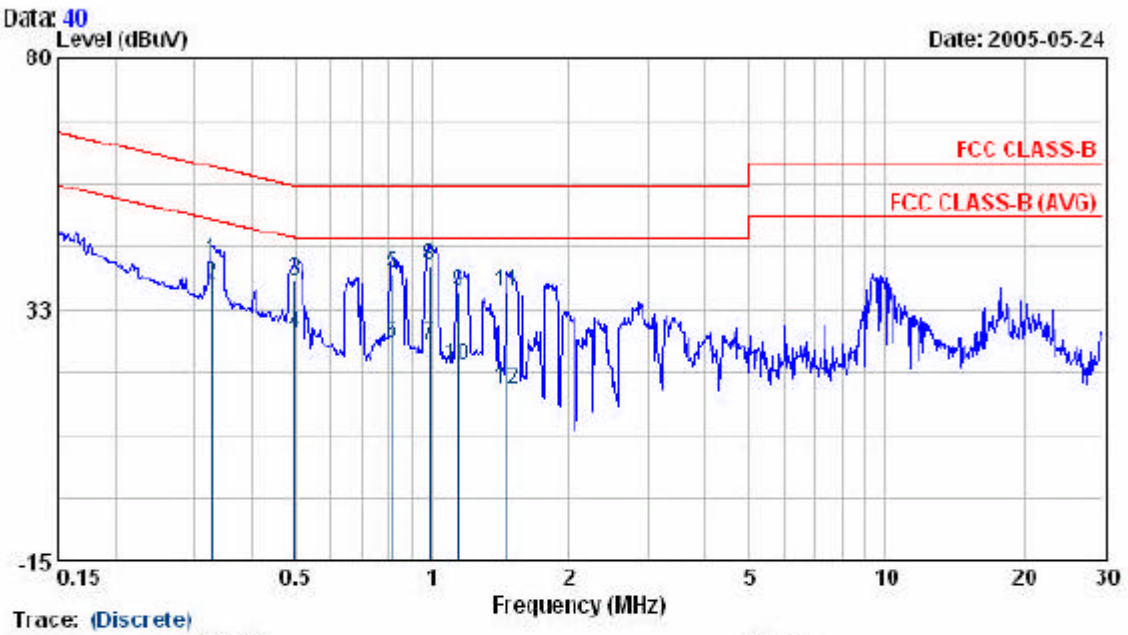

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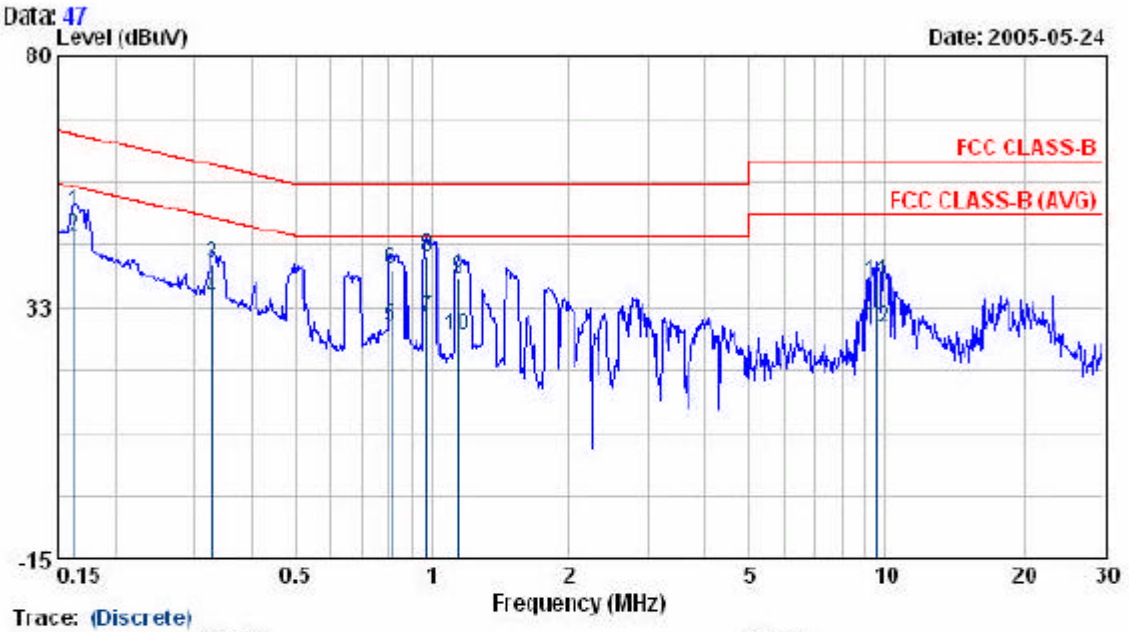
Humidity : 57 %



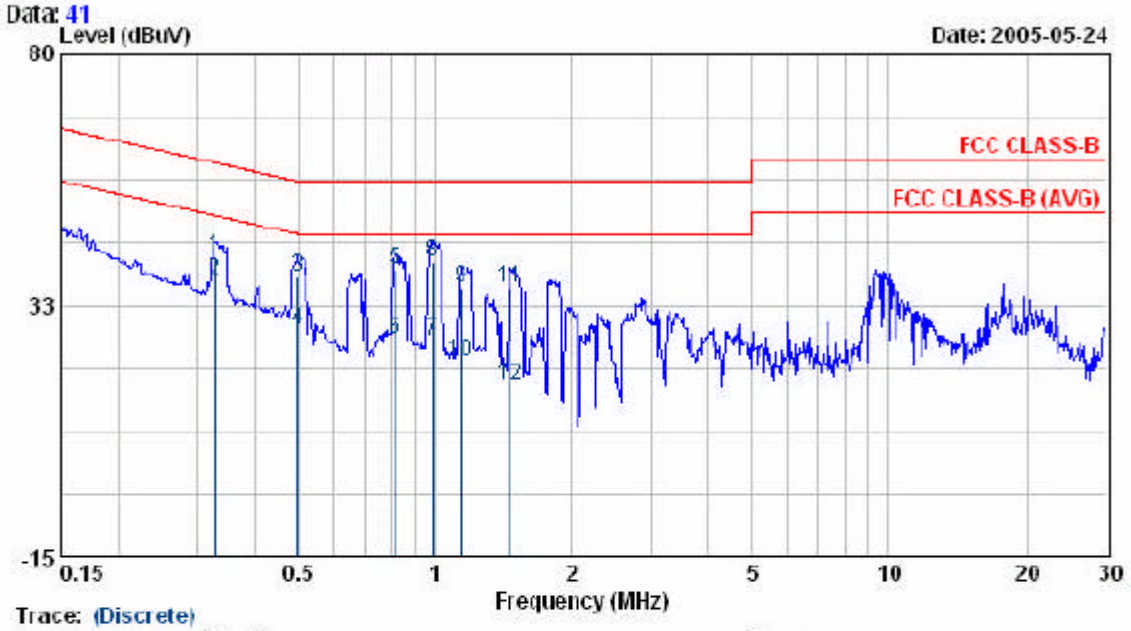
Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.16	50.18	0.26	50.44	65.34	-14.90	QP
0.16	45.77	0.26	46.03	55.34	-9.31	AVERAGE
0.33	40.33	0.41	40.74	59.51	-18.76	QP
0.33	33.59	0.41	34.00	49.51	-15.50	AVERAGE
0.81	28.47	0.42	28.89	46.00	-17.11	AVERAGE
0.81	39.17	0.42	39.59	56.00	-16.41	QP
0.98	30.04	0.40	30.44	46.00	-15.56	AVERAGE
0.98	41.81	0.40	42.21	56.00	-13.79	QP
1.14	37.50	0.42	37.92	56.00	-18.08	QP
1.14	26.53	0.42	26.95	46.00	-19.05	AVERAGE
9.59	36.69	0.50	37.19	60.00	-22.81	QP
9.59	28.01	0.50	28.51	50.00	-21.49	AVERAGE

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

EUT : IPC1500
Power : AC:110V
Test Mode : 802.11g CH 6
Memo :

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



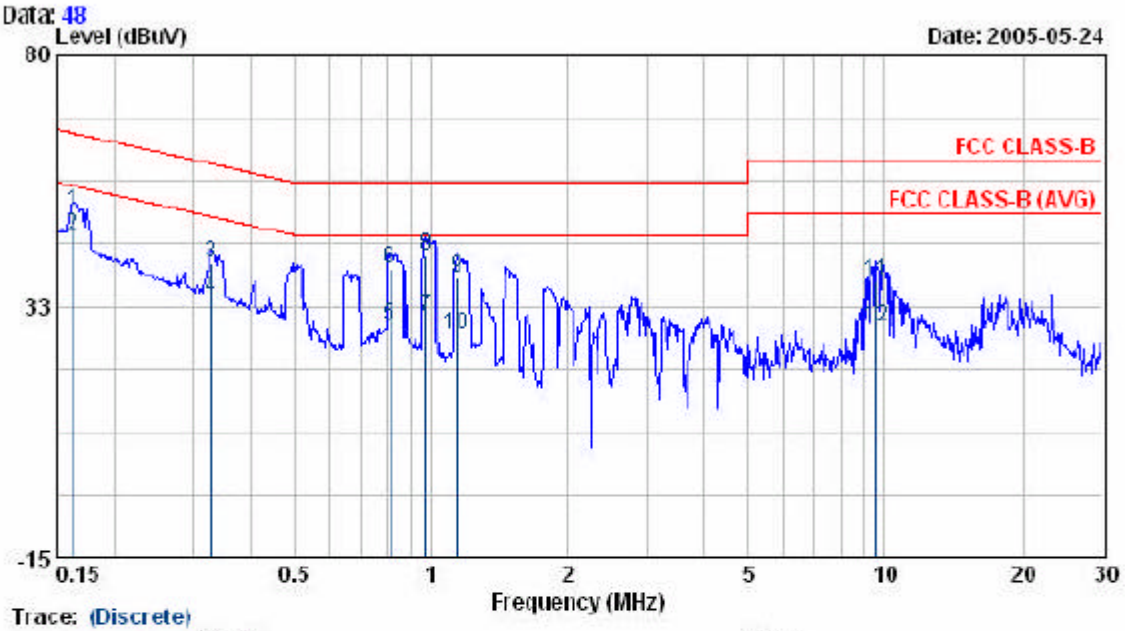
Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.33	41.35	0.41	41.76	59.51	-17.74	QP
0.33	36.65	0.41	37.06	49.51	-12.44	AVERAGE
0.50	37.58	0.48	38.06	56.06	-18.00	QP
0.50	27.30	0.48	27.78	46.06	-18.28	AVERAGE
0.82	38.85	0.42	39.27	56.00	-16.73	QP
0.82	25.69	0.42	26.11	46.00	-19.89	AVERAGE
0.99	25.48	0.40	25.88	46.00	-20.12	AVERAGE
0.99	40.28	0.40	40.68	56.00	-15.32	QP
1.14	35.49	0.42	35.91	56.00	-20.09	QP
1.14	21.49	0.42	21.91	46.00	-24.09	AVERAGE
1.47	35.28	0.46	35.74	56.00	-20.26	QP
1.47	16.94	0.46	17.40	46.00	-28.60	AVERAGE

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

EUT : IPC1500
Power : AC:110V
Test Mode : 802.11g CH 11
Memo :

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



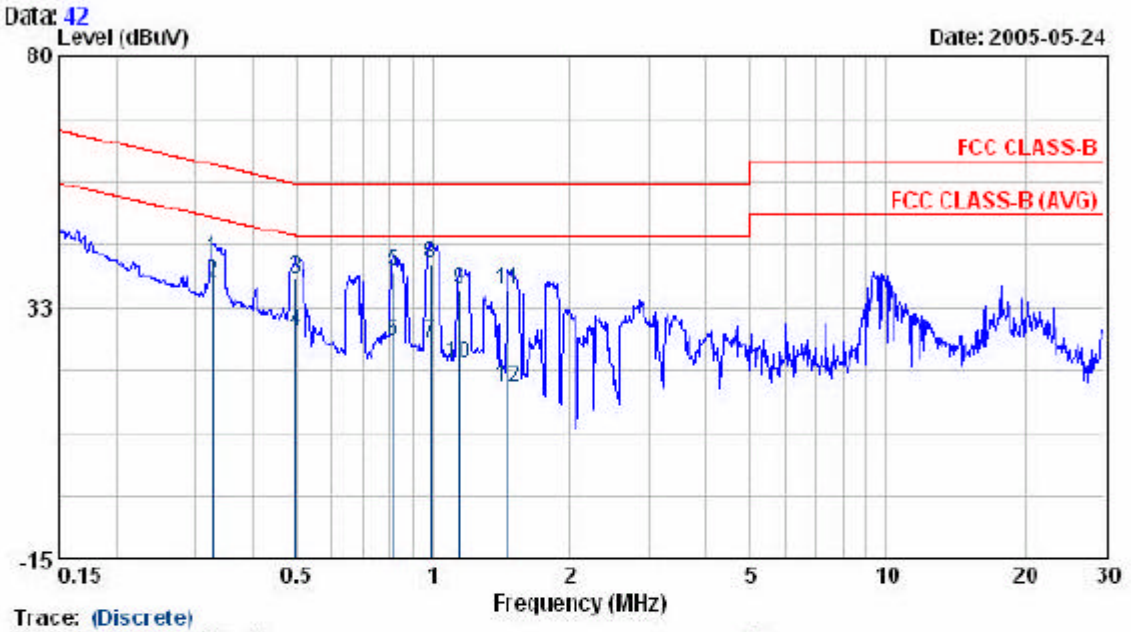
Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.16	50.18	0.26	50.44	65.34	-14.90	QP
0.16	45.77	0.26	46.03	55.34	-9.31	AVERAGE
0.33	40.33	0.41	40.74	59.51	-18.76	QP
0.33	33.59	0.41	34.00	49.51	-15.50	AVERAGE
0.81	28.47	0.42	28.89	46.00	-17.11	AVERAGE
0.81	39.17	0.42	39.59	56.00	-16.41	QP
0.98	30.04	0.40	30.44	46.00	-15.56	AVERAGE
0.98	41.81	0.40	42.21	56.00	-13.79	QP
1.14	37.50	0.42	37.92	56.00	-18.08	QP
1.14	26.53	0.42	26.95	46.00	-19.05	AVERAGE
9.59	36.69	0.50	37.19	60.00	-22.81	QP
9.59	28.01	0.50	28.51	50.00	-21.49	AVERAGE

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

EUT : IPC1500
Power : AC:110V
Test Mode : 802.11g CH 11
Memo :

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



Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.33	41.35	0.41	41.76	59.51	-17.74	QP
0.33	36.65	0.41	37.06	49.51	-12.44	AVERAGE
0.50	37.58	0.48	38.06	56.06	-18.00	QP
0.50	27.30	0.48	27.78	46.06	-18.28	AVERAGE
0.82	38.85	0.42	39.27	56.00	-16.73	QP
0.82	25.69	0.42	26.11	46.00	-19.89	AVERAGE
0.99	25.48	0.40	25.88	46.00	-20.12	AVERAGE
0.99	40.28	0.40	40.68	56.00	-15.32	QP
1.14	35.49	0.42	35.91	56.00	-20.09	QP
1.14	21.49	0.42	21.91	46.00	-24.09	AVERAGE
1.47	35.28	0.46	35.74	56.00	-20.26	QP
1.47	16.94	0.46	17.40	46.00	-28.60	AVERAGE

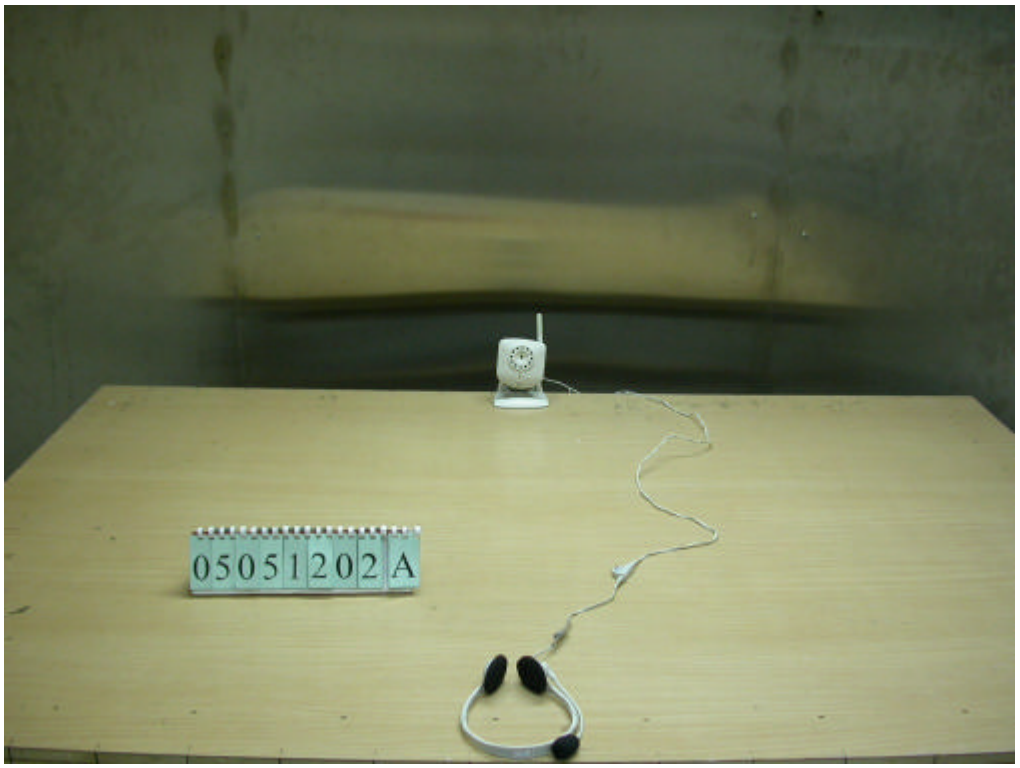
Remarks: 1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss

Test engineer: Gallan

4.5.1 Test Photographs

Test mode1

FRONT VIEW



REAR VIEW