



Dates of Tests: September 26 ~ 29, 2006
Test Report S/N: LR500110609G
Test Site : LTA CO., LTD.

CERTIFICATIO OF COMPLIANCE

FCC ID.

S5MDOMECAMERA

APPLICANT

iCanTek.Co.Ltd.

FCC Classification	:	Digital Transmission System (DTS)
Manufacturing Description	:	Network Camera
Manufacturer	:	iCanTek.Co.Ltd. / CNB Technology Inc.
Model name	:	iCanView220W
Variant Model	:	iCanView220, WD2810PVF, WD2410PVD, WD2700P, ID2810PVF, ID2410PVD, ID2700P NVC 300DN, NVC 300
Test Device Serial No.:	:	Identification
Rule Part(s)	:	FCC Part 15.247 Subpart C; ANSI C-63.4-2003
Frequency Range	:	2412MHz ~ 2462MHz (DSSS/OFDM)
Max. Output Power	:	19.54dBm Peak Conducted (802.11b) 18.52dBm Peak Conducted (802.11g)
Data of issue	:	September 30, 2006

This test report is issued under the authority of:

The test was supervised by:



Dong -Min JUNG, Technical Manager



Kyung-Taek LEE, Test Engineer

This test result only responds to the tested sample. It is not allowed to copy this report even partly without the allowance of the test laboratory. This report must not be used by the applicant to claim product endorsement by any agency.



NVLAP LAB Code.: 200723-0

TABLE OF CONTENTS

1. GENERAL INFORMATION'S ----- 3

2. INFORMATION'S ABOUT TEST ITEM ----- 4

3. TEST REPORT ----- 6

 3.1 SUMMARY OF TESTS ----- 6

 3.2 TECHNICAL CHARACTERISTICS TEST ----- 7

 3.2.1 FIELD STRENGTH OF HARMONICS ----- 7

 3.2.2 AC CONDUCTED EMISSIONS ----- 11

APPENDIX

 APPENDIX TEST EQUIPMENT USED FOR TESTS ----- 16

1. General information's

1-1 Test Performed

Company name : LTA Co., Ltd.
Address : 243, Jubug-ri, Yangji-Myeon, Youngin-Si, Kyunggi-Do, Korea. 449-822
Web site : <http://www.ltalab.com>
E-mail : chahn@ltalab.com
Telephone : +82-31-323-6008
Facsimile : +82-31-323-6010

Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the “General requirements for the competents of calibration and testing laboratory”.

1-2 Accredited agencies

LTA Co., Ltd. is approved to perform EMC testing by the following agencies:

Agency	Country	Accreditation No.	Validity	Reference
NVLAP	U.S.A	200723-0	2006-09-30	ECT accredited Lab.
RRL	KOREA	KR0049	2007-07-13	EMC accredited Lab.
FCC	U.S.A	610755	2008-03-28	FCC filing
VCCI	JAPAN	R2133, C2307	2008-06-22	VCCI registration
IC	CANADA	IC5799	2008-04-23	IC filing

2. Information's about test item

2-1 Client

Company name : iCanTek Co. Ltd.
Address : 211 2Fl, Seongnam Venture building, #587 Sujin 1-Dong, Sujung-Gu,
Seongnam-City, Kyonggi-Do, 461-804, Korea.
Tel / Fax : +82-31-711-7575/ +82-31-711-7798

2-2 Manufacturer

Company name : iCanTek Co. Ltd.
Address : 211 2Fl, Seongnam Venture building, #587 Sujin 1-Dong, Sujung-Gu,
Seongnam-City, Kyonggi-Do, 461-804, Korea.

Company name : CNB Technology Inc.
Address : #701, Star Valley, 60-11 Gasan-Dong, Geumcheon-Gu, Seoul,
153-777, Korea.

2-3 Equipment Under Test (EUT)

Trade name : Network Camera
FCC ID : S5MDOMECAMERA
Model name : iCanView220W
Serial number : Identification
RF Module : FCC ID: MXF-M940830G
Date of receipt : September 15, 2006
EUT condition : Production, not damaged
Antenna type : Internal Antenna, Gain 3.7 dBi.
Frequency Range : 2412MHz ~ 2462MHz (DSSS/OFDM)
RF output power Range : 19.54 dBm Peak Conducted (802.11b)
18.52 dBm Peak Conducted (802.11g)
Number of channels : 11(DSSS/OFDM)
Type of Modulation : CCK, DQPSK, DBPSK for DSSS
64QAM, 16QAM, QPSK, BPSK for OFDM
Transfer Rate : 11/5.5/2/1Mbps for 802.11b
54/48/36/24/18/12/9/6Mbps for 802.11g
Power Source (Adaptor) : Input: 100-250Vac, 50/60Hz, 0.5A
Output: 12V, 1.5A

2-4 Tested frequency

	LOW	MID	HIGH
Frequency (MHz) for 802.11b	2412	2437	2462
Frequency (MHz) for 802.11g	2412	2437	2462

2-5 Ancillary Equipment

Equipment	Model No.	Serial No.	Manufacturer
Note PC	S680	N/A	SAMSUNG

2-6 Variant Model description

Option Model Name	Wireless	Wire(LAN)	D&N	Resolution	Brand
iCanView220W(D&N,410K)	O	O	O	410K	iCanTek
iCanView220W(410K)	O	O	-	410K	iCanTek
iCanView220W(270K)	O	O	-	270K	iCanTek
iCanView220(D&N,410K)	-	O	O	410K	iCanTek
iCanView220(410K)	-	O	-	410K	iCanTek
iCanView220(270K)	-	O	-	270K	iCanTek
WD2810NVF	O	O	O	410K	CNB
WD2410NVD	O	O	-	410K	CNB
WD2700N	O	O	-	270K	CNB
ID2810NVF	-	O	O	410K	CNB
ID2410NVD	-	O	-	410K	CNB
ID2700N	-	O	-	270K	CNB
NVC 300DN	-	O	O	410K	Other(OEM)
NVC 300	-	O	-	410K	Other(OEM)

3. Test Report

3.1 Summary of tests

	Parameter	Limit	Test Condition	Status (note 1)
I. FCC Part Section(s)				
WLAN Module is certified by FCC (FCC ID: MXF-M940830G).				
II. Additional items				
15.209	Field Strength of Harmonics	< 54 dBuV (at 3m)	Radiated	C
15.207	AC Conducted Emissions	EN 55022	Line Conducted	C
<u>Note 1</u> : C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable				
<u>Note 2</u> : The data in this test report are traceable to the national or international standards.				

The sample was tested according to the following specification:

FCC Parts 15.247; ANSI C-63.4-2003

3.2 Technical Characteristics Test

3.2.1 Field Strength of Harmonics

Procedure:

The EUT was placed on a 0.8m high wooden table inside a shielded enclosure. An antenna was placed near the EUT and measurements of frequencies and amplitudes of field strengths were recorded for reference during final measurements. For final radiated testing, measurements were performed in OATS. Measurements were performed with the EUT oriented in 3 orthogonal axis and rotated 360 degrees to determine worst-case orientation for maximum emissions.

The spectrum analyzer is set to:

Center frequency = the worst channel

Frequency Range = 30 MHz ~ 10th harmonic.

RBW = 100 kHz (30MHz ~ 1 GHz)

VBW $\geq$ RBW

= 1 MHz (1 GHz ~ 10th harmonic)

Span = 100 MHz

Detector function = peak

Trace = max hold

Sweep = auto

Measurement Data: Complies

Minimum Standard: FCC Part 15.109

Frequency (MHz)	Limit (uV/m) @ 10m
30 ~ 88	90 **
88 ~ 216	150 **
216 ~ 960	210 **
Above 960	300

** Except as provided in 15.209(g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88MHz, 174-216MHz or 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

1. Measurement Data: 802.11b / 11Mbps mode @ 3m

Low channel		Mid channel		High channel	
Frequency (MHz)	Level / Detect (dBuV)	Frequency (MHz)	Level / Detect (dBuV)	Frequency (MHz)	Level / Detect (dBuV)
2390	51.2 / AV	-	-	2483.5	47.3 / AV
-	-	-	-	-	-
-	-	-	-	-	-
Measurement uncertainty		± 6 dB			

Remark: No Other emissions were detected at a level greater than 10dB below limit.

2. Measurement Data: 802.11g / 54Mbps mode @ 3m

Low channel		Mid channel		High channel	
Frequency (MHz)	Level / Detect (dBuV)	Frequency (MHz)	Level / Detect (dBuV)	Frequency (MHz)	Level / Detect (dBuV)
2390	49.8 / AV	-	-	2483.5	50.3 / AV
-	-	-	-	-	-
Measurement uncertainty		± 6 dB			

Remark: No Other emissions were detected at a level greater than 10dB below limit.

3. Measurement Data: other spurious @ 10m



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EUT/Model No.: iCanView220W

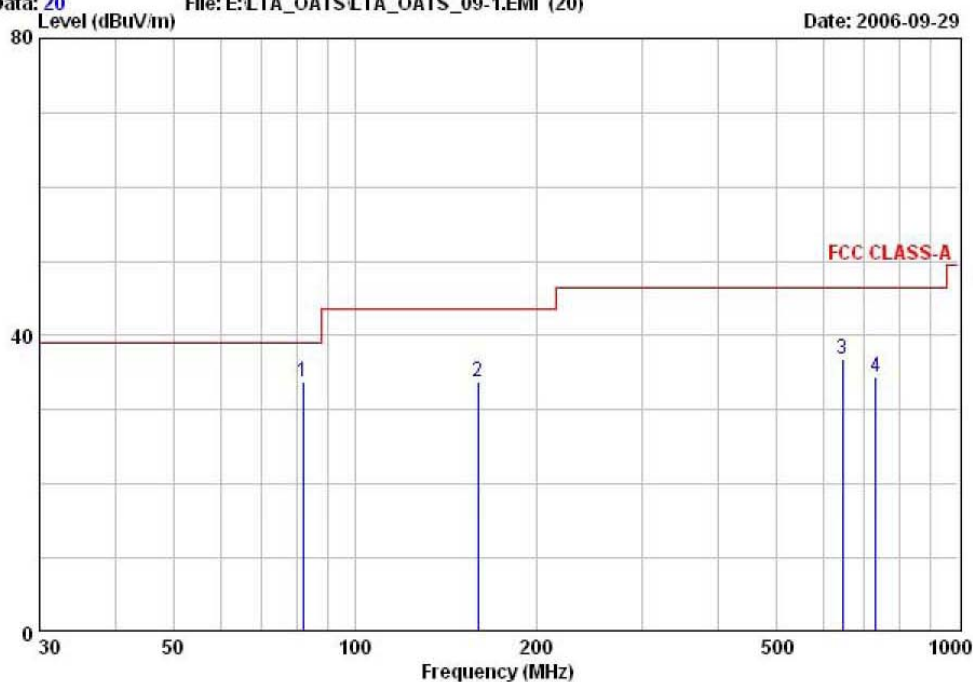
Temp/Humi: 25 / 41

Test Mode : WLAN mode

Tested by: K.T.LEE

Data: 20 File: E:\LTA_OATS\LTA_OATS_09-1.EMI (20)

Date: 2006-09-29



	Freq	Reading(QP)	C.F	Result (QP)	Limit	Margin	Height	Polarity
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	
1	82.10	51.44	-17.64	33.80	39.00	5.20	100	VERTICAL
2	160.10	45.30	-11.60	33.70	43.50	9.80	400	HORIZONTAL
3	644.30	40.35	-3.55	36.80	46.40	9.60	100	VERTICAL
4	730.60	35.70	-1.30	34.40	46.40	12.00	110	HORIZONTAL

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



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EUT/Model No.: iCanView220W

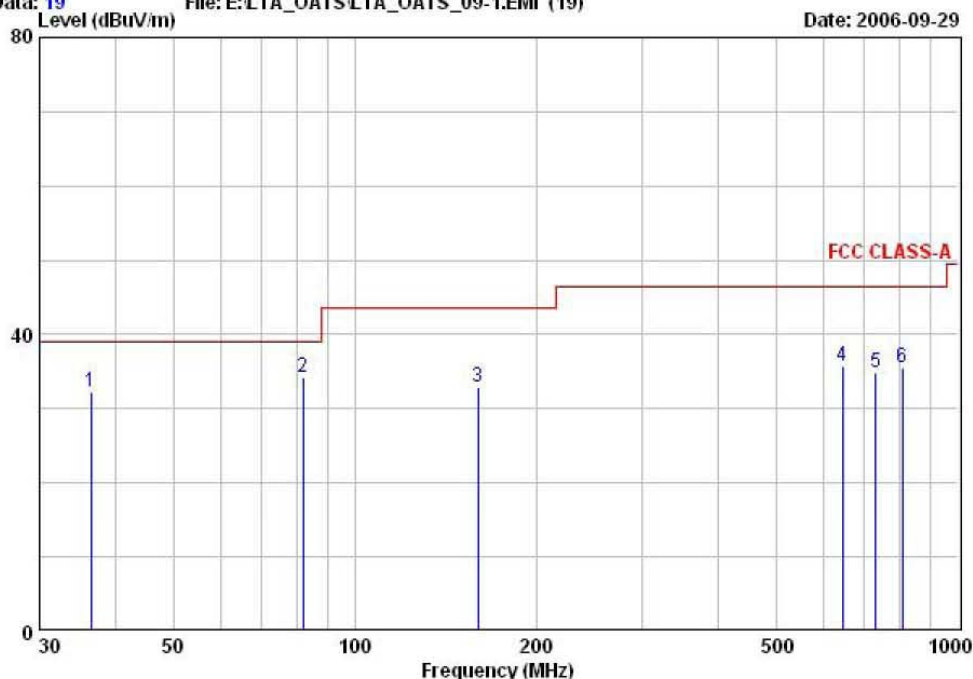
Temp/Humi: 25 / 41

Test Mode : LAN mode

Tested by: K.T.LEE

Data: 19 File: E:\LTA_OATS\LTA_OATS_09-1.EMI (19)

Date: 2006-09-29



	Freq	Reading (QP)	C.F	Result (QP)	Limit	Margin	Height	Polarity
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	
1	36.50	46.60	-14.33	32.27	39.00	6.73	100	VERTICAL
2	82.10	51.90	-17.64	34.26	39.00	4.74	100	VERTICAL
3	160.10	44.50	-11.60	32.90	43.50	10.60	400	HORIZONTAL
4	644.30	39.30	-3.55	35.75	46.40	10.65	105	HORIZONTAL
5	730.60	36.20	-1.30	34.90	46.40	11.50	100	HORIZONTAL
6	809.80	34.90	0.61	35.51	46.40	10.89	100	HORIZONTAL

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

3.2.2 AC Conducted Emissions

Procedure:

The conducted emissions are measured in the shielded room with a spectrum analyzer in peak hold. While the measurement, EUT had its hopping function disabled at the middle channels in line with Section 15.31(m). Emissions closest to the limit are measured in the quasi-peak mode (QP) with the tuned receiver using a bandwidth of 9 kHz. The emissions are maximized further by cable manipulation and Exerciser operation. The highest emissions relative to the limit are listed.

Measurement Data: Complies

- See next pages for actual measured spectrum plots.
- No emissions were detected at a level greater than 10dB below limit.

Minimum Standard: FCC Part 15.107/EN 55022 Class A

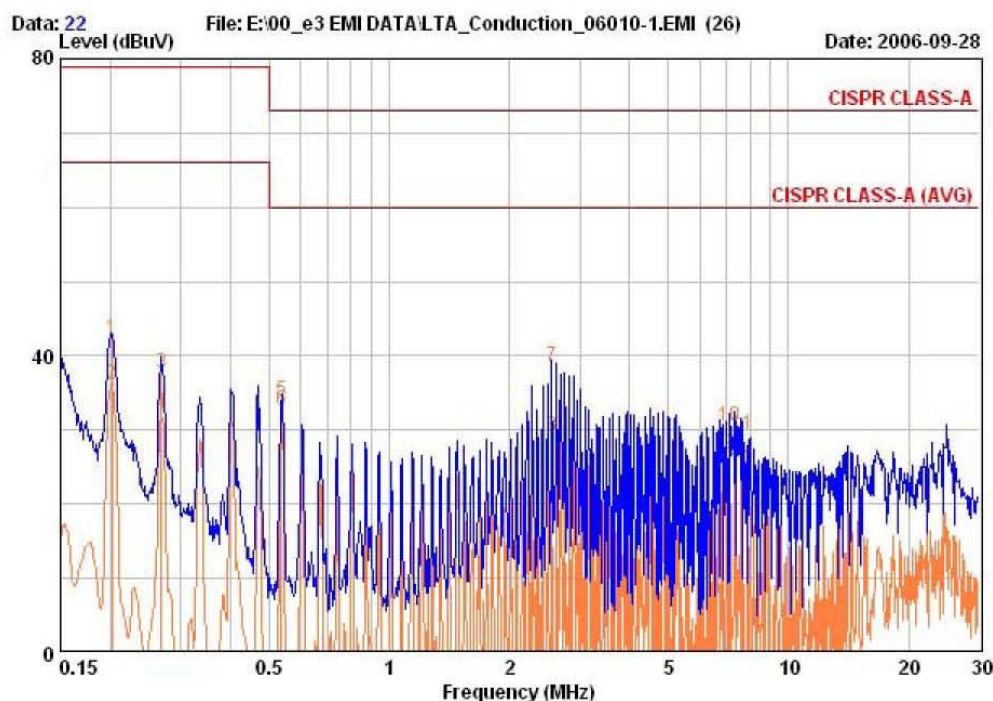
Frequency Range (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15 ~ 0.5	79	66
0.5 ~ 30	73	60

* Decreases with the logarithm of the frequency

AC Conducted Emissions –Line : WLAN mode

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EUT / Model No. : ICANVIEW220W	Phase : LINE
Test Mode : WLAN	Test Power : 120 / 60
Temp./Humi. : 24 / 46	Test Engineer : K.T. LEE



Freq	RD	RD	C.F	Result	Result	Limit	Limit	Margin	Margin
MHz	QP	AV		QP	AV	QP	AV	QP	AV
	dBuV	dBuV	dB	dBuV	dBuV	dBuV	dBuV	dB	dB
0.202	42.20	36.00	0.10	42.30	36.10	79.00	66.00	36.70	29.90
0.268	37.50	32.00	0.17	37.67	32.17	79.00	66.00	41.33	33.83
0.535	33.90	32.50	0.20	34.10	32.70	73.00	60.00	38.90	27.30
2.552	38.10	28.70	0.41	38.51	29.11	73.00	60.00	34.49	30.89
7.118	30.30	26.60	0.21	30.51	26.81	73.00	60.00	42.49	33.19
7.658	29.20	24.30	0.27	29.47	24.57	73.00	60.00	43.53	35.43

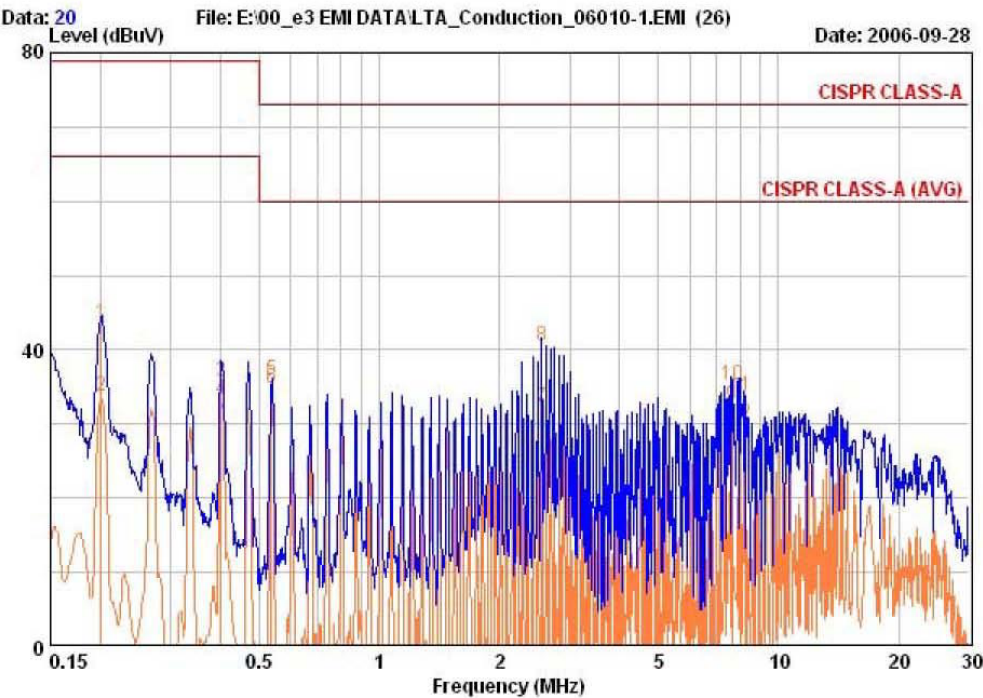
Remarks: C.F (Correction Factor) = Insertion loss + Cable loss

AC Conducted Emissions –Neutral: WLAN mode



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EUT / Model No. : ICANVIEW220W	Phase : NEUTRAL
Test Mode : WLAN	Test Power : 120 / 60
Temp./Humi. : 24 / 46	Test Engineer : K.T. LEE



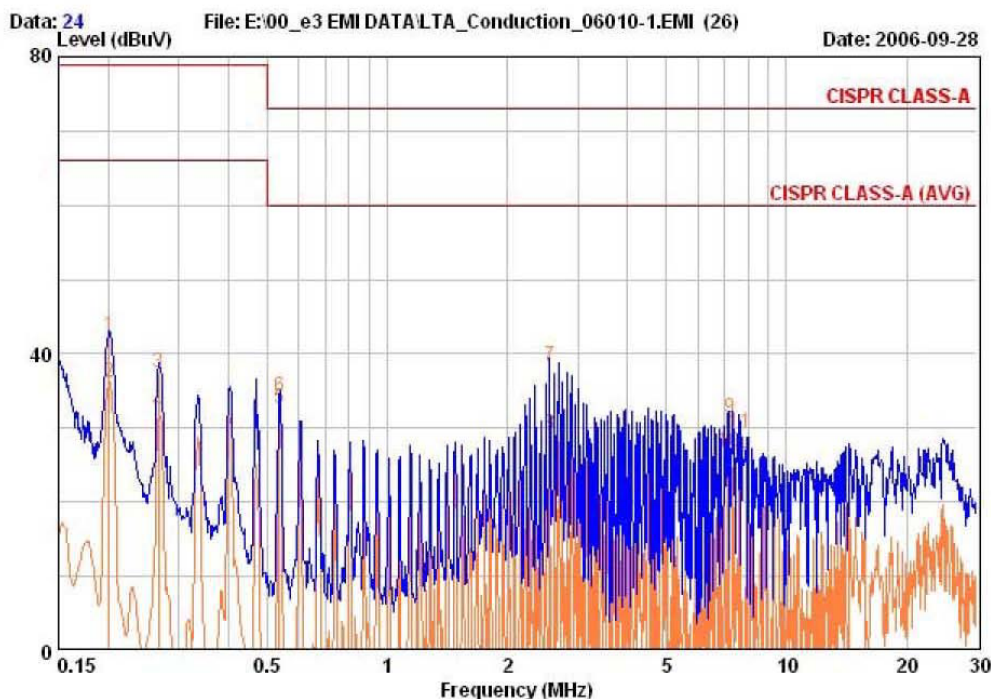
Freq	RD	RD	C.F	Result	Result	Limit	Limit	Margin	Margin
MHz	QP	AV		QP	AV	QP	AV	QP	AV
	dBuV	dBuV	dB	dBuV	dBuV	dBuV	dBuV	dB	dB
0.201	43.50	33.60	0.10	43.60	33.70	79.00	66.00	35.40	32.30
0.402	35.40	33.00	0.30	35.70	33.30	79.00	66.00	43.30	32.70
0.536	35.70	34.60	0.20	35.90	34.80	73.00	60.00	37.10	25.20
2.552	40.10	31.80	0.41	40.51	32.21	73.00	60.00	32.49	27.79
7.659	35.00	32.30	0.27	35.27	32.57	73.00	60.00	37.73	27.43
8.063	33.60	29.70	0.29	33.89	29.99	73.00	60.00	39.11	30.01

Remarks: C.F (Correction Factor) = Insertion loss + Cable loss

AC Conducted Emissions –Line : LAN mode

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EUT / Model No. : ICANVIEW220W	Phase : LINE
Test Mode : LAN	Test Power : 120 / 60
Temp./Humi. : 25 / 47	Test Engineer : K.T. LEE



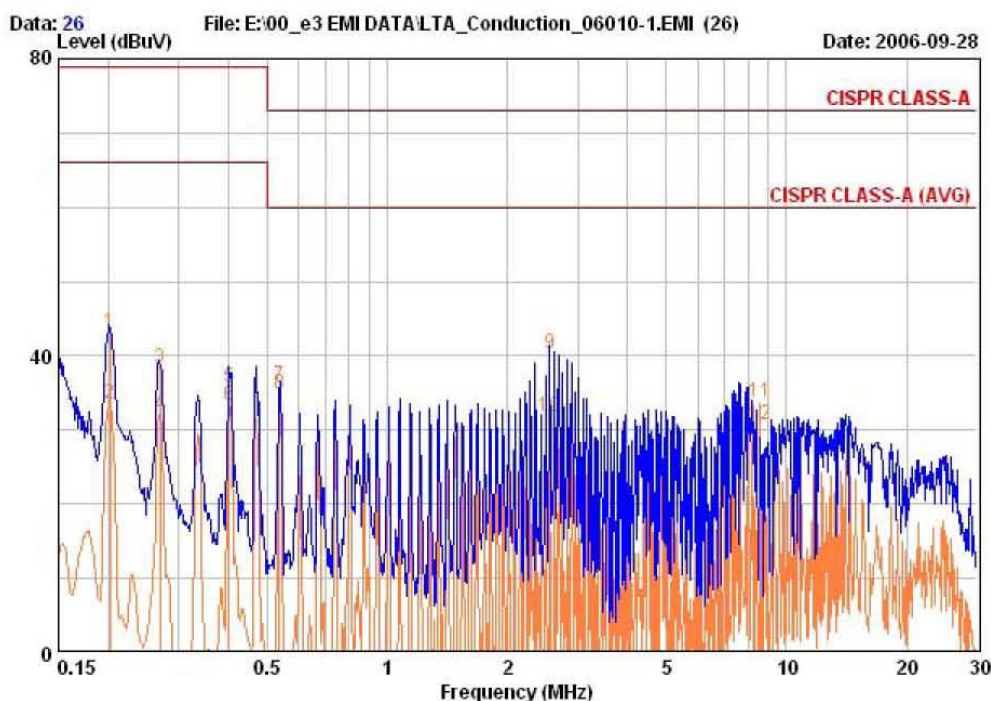
Freq	RD	RD	C.F	Result	Result	Limit	Limit	Margin	Margin
MHz	QP	AV		QP	AV	QP	AV	QP	AV
	dBuV	dBuV	dB	dBuV	dBuV	dBuV	dBuV	dB	dB
0.201	42.30	36.10	0.10	42.40	36.20	79.00	66.00	36.60	29.80
0.267	37.40	32.00	0.17	37.57	32.17	79.00	66.00	41.43	33.83
0.536	34.00	32.60	0.20	34.20	32.80	73.00	60.00	38.80	27.20
2.552	38.00	28.70	0.41	38.41	29.11	73.00	60.00	34.59	30.89
7.184	31.10	26.60	0.22	31.32	26.82	73.00	60.00	41.68	33.18
7.658	29.20	24.60	0.27	29.47	24.87	73.00	60.00	43.53	35.13

Remarks: C.F (Correction Factor) = Insertion loss + Cable loss

AC Conducted Emissions –Neutral: LAN mode

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EUT / Model No. : ICANVIEW220W	Phase : NEUTRAL
Test Mode : LAN	Test Power : 120 / 60
Temp./Humi. : 25 / 47	Test Engineer : K.T. LEE



Freq	RD	RD	C.F	Result	Result	Limit	Limit	Margin	Margin
MHz	QP	AV	dB	QP	AV	QP	AV	QP	AV
	dBuV	dBuV		dBuV	dBuV	dBuV	dBuV	dB	dB
0.202	43.10	33.50	0.10	43.20	33.60	79.00	66.00	35.80	32.40
0.269	38.10	31.80	0.17	38.27	31.97	79.00	66.00	40.73	34.03
0.402	35.50	33.00	0.30	35.80	33.30	79.00	66.00	43.20	32.70
0.536	35.70	34.70	0.20	35.90	34.90	73.00	60.00	37.10	25.10
2.552	40.00	31.40	0.41	40.41	31.81	73.00	60.00	32.59	28.19
8.601	33.60	30.60	0.24	33.84	30.84	73.00	60.00	39.16	29.16

Remarks: C.F (Correction Factor) = Insertion loss + Cable loss

APPENDIX

TEST EQUIPMENT USED FOR TESTS

	Description	Model No.	Serial No.	Manufacturer	Next Cal. Date
1	Spectrum Analyzer	8594E	3649A03649	HP	Dec-06
2	Signal Generator	8657A	3430U02049	HP	Dec-06
3	Attenuator (3dB)	8491A	37822	HP	Dec-06
4	Attenuator (3dB)	8491A	28881	HP	Dec-06
5	EMI Test Receiver	ESVD	843748/001	R&S	Dec-06
6	Spectrum Analyzer	8591E	3649A05888	HP	Jan-07
7	Spectrum Analyzer	8563E	3425A02505	HP	Jan-07
8	RF Amplifier	8447D	2949A02670	HP	Jan-07
9	RF Amplifier	8447D	2439A09058	HP	Jan-07
10	RF Amplifier	8449B	3008A02126	HP	Jun-07
11	TRILOG Antenna	VULB 9160	9160-3172	SCHWARZBECK	Feb-07
12	Log.-Per. Antenna	VULP 9118	9118 A 401	SCHWARZBECK	Feb-07
13	Biconical Antenna	BBA 9106	VHA 9103-2315	SCHWARZBECK	Feb-07
14	Horn Antenna	3115	00055005	ETS LINDGREN	Jun-07
15	Horn Antenna	BBHA 9120D	0499	Schwarzbeck	Jun-07
16	Hygro-Thermograph	THB-36	0041557-01	ISUZU	Feb-07
17	Splitter (BNC)	ZFM-150	15542	Mini-Circuits	-
18	Splitter (SMA)	ZFSC-2-2500	SF617800326	Mini-Circuits	-
19	Power Divider	11636A	6243	HP	Apr-07
20	DC Power Supply	6622A	3448A03079	HP	Apr-07
21	Attenuator (30dB)	8498A	1801A06689	HP	Apr-07
22	Attenuator (10dB)	8491A	63196	HP	Apr-07
23	Power Meter	EPM-441A	GB32481702	HP	Apr-07
24	Power Sensor	8481A	2702A64048	HP	Apr-07
25	Audio Analyzer	8903B	3729A18901	HP	May-07
26	Modulation Analyzer	8901B	3749A05878	HP	May-07
27	Dipole Antenna	VHA9103	2116	Schwarzbeck	Oct-06
28	Dipole Antenna	VHA9103	2117	Schwarzbeck	Oct-06
29	Dipole Antenna	UHA9105	2261	Schwarzbeck	Oct-06
30	Dipole Antenna	UHA9105	2262	Schwarzbeck	Oct-06
31	Digital Multimeter	34401A	US36062141	HP	Apr-07
32	LISN	KNW-407	8-1430-1	Kyoritsu	Jan-07
33	Two-Line V-Network	ESH3-Z5	893045/017	R&S	Jan-07
34	Test Receiver	ESHS10	828404009	R&S	Jan-07
35	TEMP & HUMIDITY Chamber	YJ-500	L05022	JinYoung Tech	-