

# **FCC TEST REPORT**

**REPORT NO.:** F930202A01A-ID

**MODEL NO.:** LT2720

RECEIVED: Feb. 2, 2004

**TESTED:** Feb. 4, 2004

**APPLICANT**: Top Victory Electronics (Taiwan) Co., Ltd.

ADDRESS: 18F, No. 738, Chung Cheng Road, Chung Ho,

Taipei Hsien, Taiwan 235

**ISSUED BY:** Advance Data Technology Corporation

LAB LOCATION: 47 14th Lin, Chiapau Tsun, Linko, Taipei,

Taiwan, R.O.C.

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0528 ILAC MRA

Lab Code: 200102-0



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### 1 CERTIFICATION

PRODUCT: 27" TV MONITOR

**BRAND NAME:** NORCENT

MODEL NO.: LT2720

TEST ITEM: R&D SAMPLE

APPLICANT: TOP VICTORY ELECTRONICS (TAIWAN) CO., LTD.

STANDARDS: FCC Part 15, Subpart B, Class B

ANSI C63.4-1992

ICES-003: 1997, Class B

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility on Feb. 4, 2004. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

PREPARED BY: Jessica Hong, DATE: Aug. 2, 2004

APPROVED BY: Miles Sur., DATE: Aug. 2, 2004



### 2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Remarks
			Meets Class B Limit
FCC Part 15,	Conducted Test	PASS	Minimum passing margin is
Subpart B, Class B			-15.38 dB at 1.457 MHz
ICES-003: 1997,			Meets Class B Limit
Class B	Radiated Test	PASS	Minimum passing margin is
			-5.58 dB at 114.70 MHz

NOTE: 1. The information of measurement uncertainty is available upon the customer's request .



### 3 GENERAL INFORMATION

### 3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	27" TV MONITOR
MODEL NO.	LT2720
DOWED CLIDDLY	Switching
POWER SUPPLY	Non-shielded cable 3-pin (1.8m)
	D-Sub shielded cable (1.8m + two cores)
	2x AV Non-shielded input cable (1.8m)
DATA CABLE	AV Non-shielded output cable (1.8m)
DATA CABLE	Component + Audio input Non-Shielded cable (1.8m)
	Audio Output on-Shielded cable (1.8m)
	S-Video Input Non-Shielded cable (1.8m)

**NOTE:** The EUT is a 27" TV MONITOR with built-in TV tuner and speaker. This report covers EUT monitor function only.

The EUT has the following connectors: VGA input, 2x AV input, S-video input, Component + audio input, AV output, audio autput and TV tuner.

For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



### 3.2 DESCRIPTION OF TEST MODES

The was pre-tested under following modes:

SIGNAL INPUT	RESOLUTION
	1280 x 1024 ( 85Hz / 91KHz )
D-SUB	1024 x 768 ( 85Hz / 69KHz )
	640 x 480 ( 60Hz / 31.5 KHz )

Since the worst emission levels was found under resolution 1280x1024 (85Hz / 91kHz) therefore only this test data with the mode was recorded in the report.



### 3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	PERSONAL COMPUTER	LEO	Persica 8620G	1A36I98A00021 8	FCC DoC Approved
2	PRINTER	EPSON	LQ-300+	DCGY017057	FCC DoC Approved
3	MODEM	ACEEX	1414	980020520	IFAXDM1414
4	PS/2 KEYBOARD	втс	5200T	F24800221	E5XKB5122WTH01 10
5	PS/2 MOUSE	BTC	M851	N/A	E5XMSM860
6	SPEAKER	SANYO	SYSP-802	SP07500040301 198	N/A
7	EARPHONE	PHILIPS	SBC HL125	N/A	N/A
8	DVD player	SONY	DVP-NS530	1003745	VERIFICATION
9	DVD player	SONY	DVP-NS530	1003144	VERIFICATION
10	DVD player	SONY	DVP-NS530	1003088	VERIFICATION
11	DVD player	SONY	DVP-NS530	1003168	VERIFICATION
12	VGA DISPLAY CARD	ELSA	ERAZOR III LT	0111011946	FCC DoC Approved

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A
2	1.2m braid shielded wire, terminated with DB25 and Centronics connector via metallic
	frame.
3	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame.
4	1.6 m foil shielded wire, terminated with PS/2 connector via metallic frame.
5	1.5 m Non shielded wire, terminated with PS/2 connector via drain wire.
6	1.4 m wrapped shielded wire, terminated via drain wire, with 3.5 mm phone plug.
7	1.2 m wrapped shielded wire, terminated with 3.5mm phone plug via drain wire.
8	1.5m Non-Shielded AV cable x1
9	1.5m Non-Shielded AV cable x1
10	1.5m Non-Shielded AV cable x1
11	1.5m Non-Shielded AV cable x1
12	N/A

**NOTE:** 1. All power cords of the above support units are non-shielded (1.8m).

- 2. A RF cable (1.8m) was connected to the tuner port of EUT to form an open loop cable. It was terminated with a 75 ohm resistor load.
- 3. Support unit 12 was installed in support unit 1.



### 4 EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

EDECLIENCY (MIL-)	Class A	(dBuV)	Class B (dBuV)		
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	
0.15 - 0.5	79	66	66 - 56	56 - 46	
0.50 - 5.0	73	60	56	46	
5.0 - 30.0	73	60	60	50	

**NOTES**: (1) The lower limit shall apply at the transition frequencies.

- (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

### 4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ROHDE & SCHWARZ Test	ESHS 30	828765/002	July 15, 2004
Receiver	20110 00	0201001002	odly 10, 2001
ROHDE & SCHWARZ			
Artificial Mains Network (for	ESH3-Z5	835239/001	Apr. 28, 2004
EUT)			
ROHDE & SCHWARZ			
Artificial Mains Network (for	ESH3-Z5	835239/002	Apr. 28, 2004
peripherals)			
ROHDE & SCHWARZ	ENY41	935154/007	Apr. 30, 2004
4-wire ISN	LINITI	900104/001	Apr. 30, 2004
ROHDE & SCHWARZ	ENY22	833823/026	Apr. 30, 2004
2-wire ISN	ENTZZ	033023/020	Apr. 30, 2004
Software	Cond-V3	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C09.01	May 23, 2004
SUHNER Terminator (For	65BNC-	E1-010789	June 04, 2004
ROHDE & SCHWARZ LISN)	5001	E1-010709	Julie 04, 2004

**NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. "\*": These equipment are used for conducted telecom port test only (if tested).
- 3. The test was performed in ADT Shielded Room No. 9.
- 4. The VCCI Site Registration No. is C-1312.



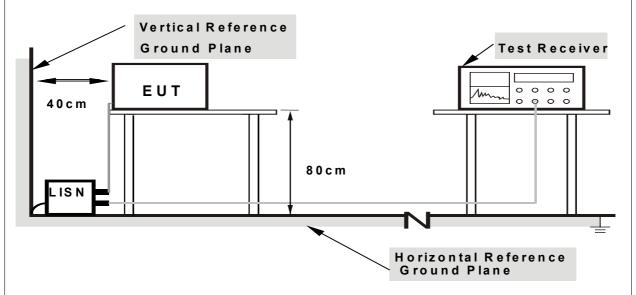
### 4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit 20dB) was not recorded.

### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

### 4.1.5 TEST SETUP



Note: 1. Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.



### 4.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power of all equipment.
- b. PC ran a test program to enable all functions.
- c. PC read and wrote messages from FDD and HDD.
- d. PC sent "H" messages to 27" TV MONITOR (EUT) and monitor displayed "H" patterns on screen.
- e. PC sent "H" messages to modem.
- f. PC sent "H" messages to printer, and the printer printed it out.
- g. PC sent 1KHz audio message to speaker via EUT.
- h. Steps c-h were repeated.

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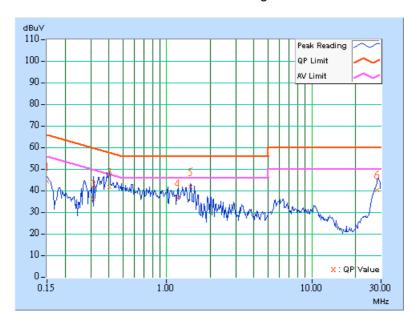
### 4.1.7 TEST RESULTS

EUT	27" TV MONITOR	MODEL NO.	LT2720
MODE	1280x1024 (85Hz/91KHz)	6dB BANDWIDTH	9 kHz
INPUT POWER	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	20 deg. C, 80 % RH, 1005 hPa	TESTED BY: Chin Wen Wang	

	Freq.	Corr.	Reading Value		Corr. Reading Value Emission Level L		Limit		Margin	
No		Factor	[dB (	(uV)]	[dB (	(uV)]	[dB	(uV)]	(dl	3)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	43.22	-	43.32	i	66.00	56.00	-22.68	-
2	0.315	0.16	34.98	-	35.14	-	59.84	49.84	-24.70	-
3	0.402	0.20	40.44	-	40.64	i	57.81	47.81	-17.17	-
4	1.187	0.20	35.48	-	35.68	i	56.00	46.00	-20.32	-
5	1.457	0.20	40.42	-	40.62		56.00	46.00	-15.38	•
6	28.289	1.37	38.91	-	40.28	-	60.00	50.00	-19.72	-

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



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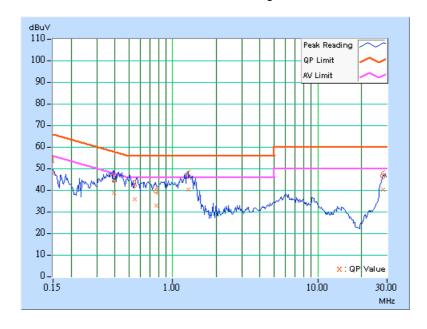


EUT	27" TV MONITOR	MODEL NO.	LT2720
MODE	1280x1024 (85Hz/91KHz)	6dB BANDWIDTH	9 kHz
INPUT POWER	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	20 deg. C, 80 % RH, 1005 hPa	TESTED BY: Chin	Wen Wang

	Freq.	Corr.	Reading Value			Emission Level Limit		nit	Margin		
No		Factor	[dB	(uV)]	[dB (	(uV)]	[dB	(uV)]	(di	3)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.150	0.10	46.56	-	46.66	ı	66.00	56.00	-19.34	-	
2	0.396	0.20	37.79	-	37.99	ı	57.94	47.94	-19.95	-	
3	0.546	0.20	35.04	-	35.24	ı	56.00	46.00	-20.76	-	
4	0.775	0.20	31.72	-	31.92	ı	56.00	46.00	-24.08	-	
5	1.285	0.20	39.31	-	39.51	ı	56.00	46.00	-16.49	-	
6	27.995	1.06	39.19	-	40.25	-	60.00	50.00	-19.75	-	

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.





Issued: Aug. 2, 2004

### 4.2 RADIATED EMISSION MEASUREMENT

# 4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT FOR FREQUENCY BELOW 1000 MHz

FREQUENCY	Class A	(at 10m)	Class B (at 3m)		
(MHz)	uV/m	dBuV/m	uV/m	dBuV/m	
30 – 88	90	39.1	100	40.0	
88 – 216	150	43.5	150	43.5	
216 - 960	210	46.4	200	46.0	
Above 1000	300	49.5	500	54.0	

# LIMIT OF RADIATED EMISSION OF FCC PART 15, SUBPART B FOR FREQUENCY ABOVE 1000 MHz

FREQUENCY (MHz)	Class A (dBu	ıV/m) (at 3m)	Class B (dBuV/m) (at 3m)		
	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80.0	60.0	74.0	54.0	

**Note:** (1) The lower limit shall apply at the transition frequencies.

- (2) Emission level  $(dBuV/m) = 20 \log Emission level (uV/m)$ .
- (3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

# FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower

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### 4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL	
* HP Spectrum Analyzer	8591E	3308A01367	Mar. 09, 2004	
HP Preamplifier	8447F	3113A05767	Sep. 22, 2004	
* HP Preamplifier	8449B	3008A01924	Oct. 12, 2004	
* HP Preamplifier	8449B	3008A01638	Oct. 17, 2004	
* ROHDE & SCHWARZ TEST RECEIVER	ESVS 30	841977/008	Apr. 07, 2004	
SCHWARZBECK Tunable	VHA 9103	NA		
Dipole Antenna SCHWARZBECK Tunable			Nov. 15, 2004	
Dipole Antenna	UHA 9105	977	·	
* ROHDE & SCHWARZ	ESMI	839013/007	Feb. 13, 2004	
TEST RECEIVER		839379/002		
*CHASE BILOG Antenna	CBL6112A 2331		Oct. 17, 2004	
* EMCO Horn Antenna	3115	6714	Nov. 26, 2004	
* EMCO Horn Antenna	3115	9312-4192	Mar. 23, 2004	
* ADT. Turn Table	TT100	0308	NA	
* ADT. Tower	AT100	0308	NA	
* Software	ADT_Radiat ed V5.14	NA	NA	
* ANRITSU RF Switches	MP59B	M32159	Oct. 11, 2004	
* TIMES RF cable	LMR-600	CABLE-ST8-01	Oct. 11, 2004	

**NOTE:** 1. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.

- 2. "\*" = These equipment are used for the final measurement.
- 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 4. The test was performed in ADT Open Site No. 8.
- 5. The VCCI Site Registration No. is R-877.



### 4.2.3 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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 polarizations 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

#### NOTE:

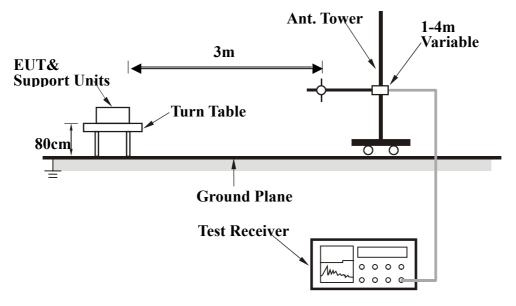
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 300 Hz for Average detection (AV) at frequency above 1GHz.
- 3. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the interference antenna.

### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation



### 4.2.5 TEST SETUP



For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

### **4.2.6 EUT OPERATING CONDITIONS**

Same as item 4.1.6.



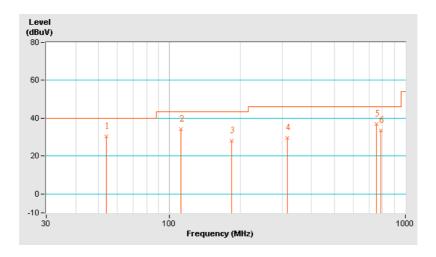
### 4.2.7 TEST RESULTS

EUT	27" TV MONITOR	MODEL NO.	LT2720	
MODE	1280x1024 (85Hz/91KHz)	INPUT POWER	120Vac, 60 Hz	
FREQUENCY RANGE	30-1000 MHz 1000-2000 MHz	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz Peak / Average, 1MHz	
ENVIRONMENTAL CONDITIONS	14 deg. C, 87 % RH, 1005 hPa	TESTED BY: Chin Wen Wang		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)	
1	54.00	30.30 QP	40.00	-9.70	3.90 H	297	20.92	9.38	
2	112.13	34.25 QP	43.50	-9.25	3.28 H	128	22.16	12.09	
3	183.25	28.07 QP	43.50	-15.43	2.46 H	189	18.19	9.88	
4	315.00	29.78 QP	46.00	-16.22	3.15 H	197	14.10	15.68	
5	752.50	36.72 QP	46.00	-9.28	2.14 H	168	13.31	23.41	
6	787.80	33.58 QP	46.00	-12.42	1.66 H	19	10.05	23.53	

### **REMARKS**:

- 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.



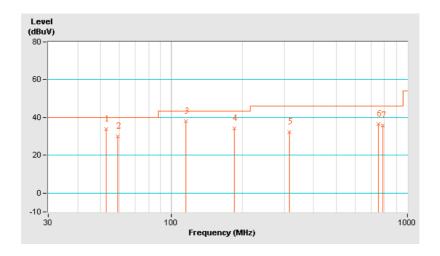


EUT	27" TV MONITOR	MODEL NO.	LT2720	
MODE	1280x1024 (85Hz/91KHz)	INPUT POWER	120Vac, 60 Hz	
FREQUENCY RANGE	30-1000 MHz 1000-2000 MHz	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz Peak / Average, 1MHz	
ENVIRONMENTAL CONDITIONS	14 deg. C, 87 % RH, 1005 hPa	TESTED BY: Chin Wen Wang		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Correction	
No.	(MHz)	Level	(dBu\//m)	_	Height	Angle	Value	Factor	
	(1711 12)	(dBuV/m)	(dbd v/iii)	(dBuV/m) (dB)	(m)	(Degree)	(dBuV)	(dB/m)	
1	52.76	33.98 QP	40.00	-6.02	1.18 V	167	23.83	10.15	
2	59.10	30.16 QP	40.00	-9.84	1.28 V	338	23.96	6.20	
3	114.70	37.92 QP	43.50	-5.58	1.02 V	186	25.51	12.41	
4	184.33	34.13 QP	43.50	-9.37	1.00 V	342	24.22	9.91	
5	316.58	32.23 QP	46.00	-13.77	2.02 V	39	16.53	15.70	
6	752.50	36.62 QP	46.00	-9.38	3.62 V	51	13.21	23.41	
7	787.54	35.83 QP	46.00	-10.17	1.95 V	323	12.30	23.53	

#### **REMARKS**:

- 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.





## 5 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST







## RADIATED EMISSION TEST







### 6 APPENDIX - INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

USA FCC, NVLAP, UL TUV Rheinland

Japan VCCI
New Zealand MoC
Norway NEMKO

Canada INDUSTRY CANADA

**R.O.C.** CNLA, BSMI

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The address and road map of all our labs can be found in our web site also.