

FCC TEST REPORT

REPORT NO.: F930720A08-ID

MODEL NO.: LT2740

RECEIVED: July 20, 2004

TESTED: July 23 ~ 26, 2004

APPLICANT: Norcent Technology Inc.

ADDRESS: 550 Cliffside Dr, San Dimas, CA91773, USA

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



No. 2177-01

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1 CERTIFICATION

PRODUCT: 27" TV Monitor
BRAND NAME: Norcent
MODEL NO.: LT2740
APPLICANT: Norcent Technology Inc.
TESTED: July 23 ~ 26, 2004
TEST ITEM: R&D SAMPLE
STANDARDS: FCC Part 15, Subpart B, Class B
CISPR 22: 1997, Class B
ICES-003: 2004, Class B
ANSI C63.4-1992

The above equipment has been tested by Advance Data Technology Corporation, and found compliance with the requirement of the above standards. The EUT is a TV monitor with tuner function - this report was issued in regard to its monitor function only. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Kay Chen , **DATE:** Aug. 2, 2004
(Kay Chen)

TECHNICAL
ACCEPTANCE : Henry Lai , **DATE:** Aug. 2, 2004
Responsible for EMI (Henry Lai)

APPROVED BY : Mike Su , **DATE:** Aug. 2, 2004
(Mike Su, Manager)

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Remarks
FCC Part 15, Subpart B, Class B	Conducted Test	PASS	Meets Class B Limit Minimum passing margin is -15.37dB at 0.186MHz
CISPR 22: 1997, Class B	Radiated Test	PASS	Meets Class B Limit
ICES-003: 2004, Class B			Minimum passing margin is -5.41dB at 115.28MHz

Note: The limit for radiated test was performed according to CISPR 22: 1997, which was specified in FCC PART 15 Subpart B 15.109(g). Also the limits of ICES-003: 2004 and FCC PART 15 Subpart B are same.

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4:

Measurement	Value
Conducted emissions	2.44 dB
Radiated emissions	3.89 dB

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	27" TV Monitor
MODEL NO.	LT2740
POWER SUPPLY	Switching Input rating: 100-240V, 2.0A, 50/60Hz
DATA CABLE SUPPLIED	Shielded VGA cable (1.8m) with two ferrite cores Non-shielded audio cable (1.8m)

NOTE:

1. The EUT is a 27" TV Monitor with built-in TV tuner and speaker. The EUT supports numerous input/output sources as following:
 - ◆ VGA x1
 - ◆ S-Video x1
 - ◆ Component (YCbCr/YPbPr)
 - ◆ AV input x2
 - ◆ Component audio input x1
 - ◆ Computer audio input x1
 - ◆ Audio output x1
2. This report covers EUT monitor function only and the monitor's resolution is up to 1024x768. And Its TV function testing is covered in another test report: F930720A08.
3. 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 EUT was pre-tested under the following resolution & horizontal synchronization speed modes:

- ◆ 1024x768 (60Hz/49kHz)
- ◆ 800x600 (75Hz/47kHz)
- ◆ 640x480 (60Hz/31.5kHz)

The worst emission level was found when the EUT was tested under **1024x768 (60Hz/49kHz)** resolution. Therefore only the test data of this mode was recorded in this 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	1A36I98A000203	FCC DoC Approved
2	PRINTER	EPSON	LQ-300+	DCGY017057	FCC DoC Approved
3	MODEM	ACEEX	1414	980020521	IFAXDM1414
4	PS/2 KEYBOARD	BTC	5200T	F24800256	E5XKB5122WTH0110
5	PS/2 MOUSE	BTC	M851	M4-010359	E5XMSM860
6	DVD player	SONY	DVP-NS530	1003144	Verification
7	DVD player	SONY	DVP-NS530	1003746	Verification
8	SPEAKER	SANYO	SYSP-802	SP07500040301198	N/A
9	MULTIFORMAT Pattern Generator	LEADER	LT 447	3987644	N/A
10	VIDEO/AUDIO DISTRIBUTOR	PX	AV-004	V4-010014	N/A
11	VGA DISPLAY CARD	MSI	TI4200-VTD8X128	3700282556	FCC DoC Approved
12	EARPHONE	PHILIPS	SBC HL145	H2-010092	N/A

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, w/o core
3	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core.
4	1.6 m foil shielded wire, terminated with PS/2 connector via metallic frame, w/o core.
5	1.5 m Non shielded wire, terminated with PS/2 connector via drain wire, w/o core.
6	1.8 m non-shielded AV cable. 1.8 m non-shielded S-Video cable.
7	1.8 m non-shielded AV cable.
8	1.4 m wrapped shielded wire, terminated via drain wire, with 3.5 mm phone plug, w/o core.
9	1.8 m non-shielded audio cable. 1.8 m non-shielded composite cable.



10	1.8 m non-shielded AV cable x 2.
11	N/A
12	1.2 m wrapped shielded wire, terminated with 3.5mm phone plug via drain wire, w/o core.

- NOTE:** 1. All power cords of the above support units are non-shielded (1.8m).
2. One non-shielded audio cable (1.8m) was connected from PC to EUT.
3. A BNC cable (1.5m) was connected to tuner port of EUT to form an open loop cable and terminated with a 75 ohm resistor load.
4. VGA card was installed in support unit 1.



4 EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	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 Receiver	ESCS 30	838251/021	Jan. 4, 2005
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH3-Z5	100218	Dec. 9, 2004
ROHDE & SCHWARZ Artificial Mains Network (for peripherals)	ESH3-Z5	100219	Dec. 9, 2004
ROHDE & SCHWARZ Artificial Mains Network (for peripherals)	ESH3-Z5	100220	Dec. 9, 2004
ROHDE & SCHWARZ 4-wire ISN	ENY41	837032/016	Nov. 19, 2004
ROHDE & SCHWARZ 2-wire ISN	ENY22	837497/016	Nov. 19, 2004
Software	ADT_Conc_V7.3.1	NA	NA
Software	ADT_ISN_V7.3.1	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C10.01	Apr. 28, 2005
SUHNTER Terminator (For ROHDE & SCHWARZ LISN)	65BNC-5001	E1-010770	Feb. 28, 2005
SUHNTER Terminator (For ROHDE & SCHWARZ LISN)	65BNC-5001	E1-010773	Feb. 28, 2005

- 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. 10.
 4. The VCCI Site Registration No. C-1852.

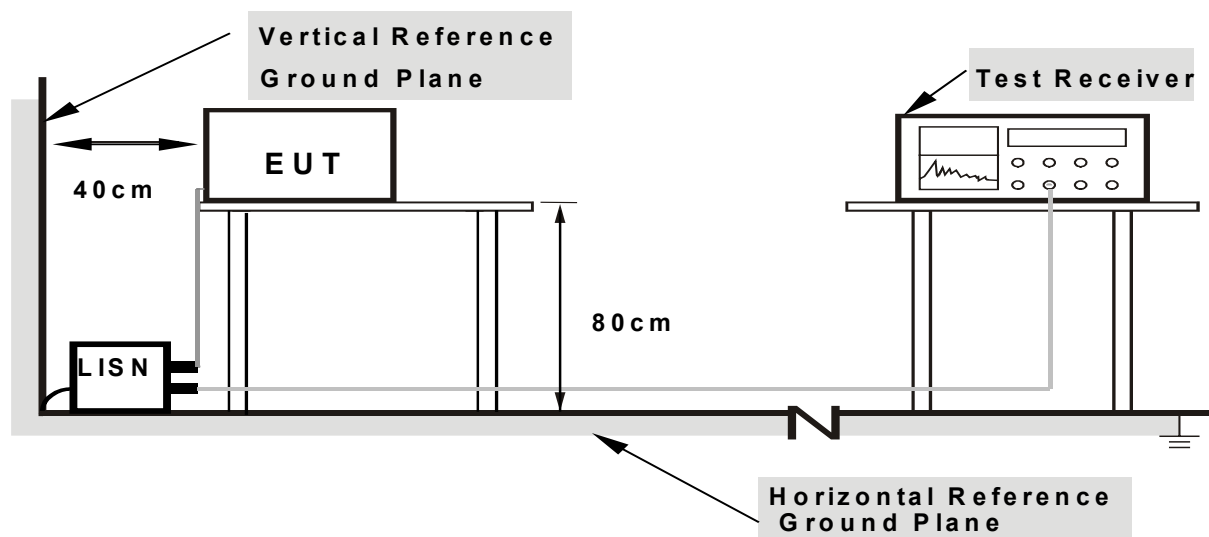
4.1.3 TEST PROCEDURE

- 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) were 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

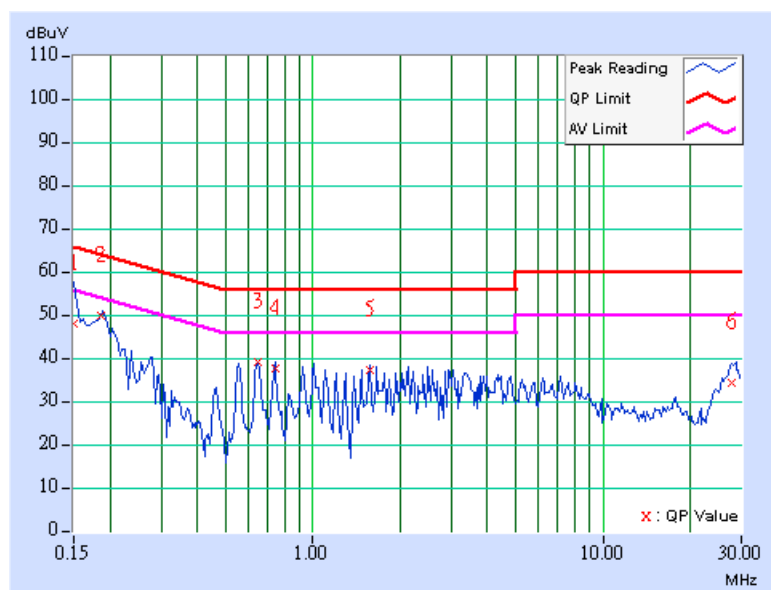
- a. Turned on the power of all equipment.
- b. PC ran a test program to enable all functions.
- c. PC read and wrote messages from FDD and HDD.
- d. PC sent "H" messages to TV Monitor (EUT), then EUT displayed "H" patterns on its screen.
- e. PC sent "H" messages to modem.
- f. PC sent "H" messages to printer, and the printer printed them out.
- g. PC sent "1kHz audio signal to external earphone / speaker or int. speaker via EUT.
- h. Step c-h were repeated.

4.1.7 TEST RESULTS

EUT	27" TV Monitor	MODEL NO.	LT2740
MODE	1024x768 (60Hz/49kHz)	6dB BANDWIDTH	9kHz
INPUT POWER	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25 deg. C, 78 % RH, 1043 hPa	TESTED BY: Sam Dong	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	47.07	-	47.17	-	66.00	56.00	-18.83	-
2	0.186	0.10	48.73	-	48.83	-	64.20	54.20	-15.37	-
3	0.646	0.14	37.89	-	38.03	-	56.00	46.00	-17.97	-
4	0.740	0.16	36.42	-	36.58	-	56.00	46.00	-19.42	-
5	1.566	0.20	36.32	-	36.52	-	56.00	46.00	-19.48	-
6	27.945	1.20	33.22	-	34.42	-	60.00	50.00	-25.58	-

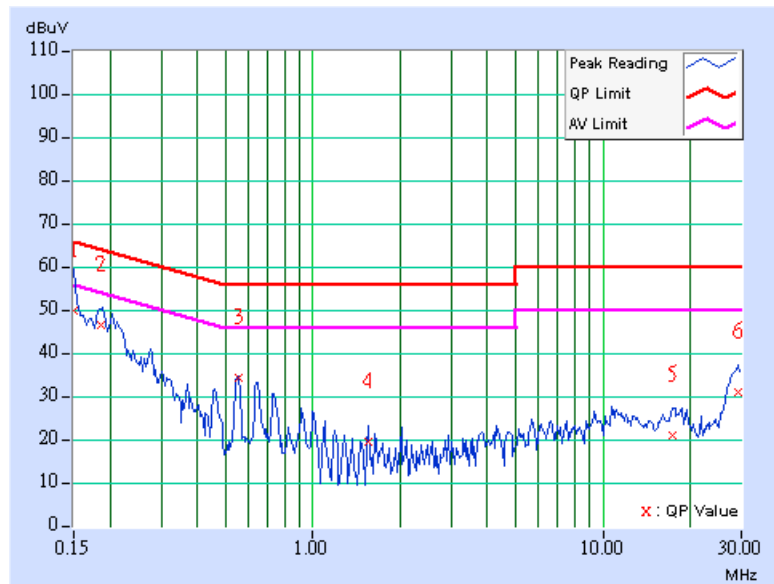
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	27" TV Monitor	MODEL NO.	LT2740
MODE	1024x768 (60Hz/49kHz)	6dB BANDWIDTH	9kHz
INPUT POWER	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25 deg. C, 78 % RH, 1043 hPa	TESTED BY: Sam Dong	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	49.12	-	49.22	-	66.00	56.00	-16.78	-
2	0.186	0.10	45.79	-	45.89	-	64.22	54.22	-18.33	-
3	0.552	0.13	33.36	-	33.49	-	56.00	46.00	-22.51	-
4	1.559	0.20	18.47	-	18.67	-	56.00	46.00	-37.33	-
5	17.320	0.75	20.27	-	21.02	-	60.00	50.00	-38.98	-
6	29.070	1.00	30.13	-	31.13	-	60.00	50.00	-28.87	-

- 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.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT FOR FREQUENCY BELOW 1000 MHz

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30 – 230	40	30
230 – 1000	47	37

Note: The limit for radiated test was performed according to CISPR 22: 1997, which was specified in FCC PART 15B 15.109(g). Also the limits of ICES-003: 2004 and CISPR 22: 1997 are same.

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

FREQUENCY (MHz)	Class A (dBuV/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	5th harmonic of the highest frequency or 40 GHz, whichever is lower



4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
* HP Spectrum Analyzer	8591E	3308A01367	Mar 16, 2005
HP Preamplifier	8447F	3113A05767	Sept. 22, 2004
* HP Preamplifier	8449B	3008A01924	Oct. 12, 2004
* HP Preamplifier	8449B	3008A01638	Oct. 17, 2004
* ROHDE & SCHWARZ TEST RECEIVER	ESCS 30	100275	Oct. 22, 2004
SCHWARZBECK Tunable Dipole Antenna	VHA 9103	NA	Nov. 15, 2004
SCHWARZBECK Tunable Dipole Antenna	UHA 9105	977	
* ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Feb. 12, 2005
*CHASE BILOG Antenna	CBL6112A	2331	Oct. 17, 2004
* EMCO Horn Antenna	3115	6714	Nov. 26, 2004
* EMCO Horn Antenna	3115	9312-4192	Feb. 28, 2005
* ADT. Turn Table	TT100	0308	NA
* ADT. Tower	AT100	0308	NA
* Software	ADT_Radiated_V 5.14	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. 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 10 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.

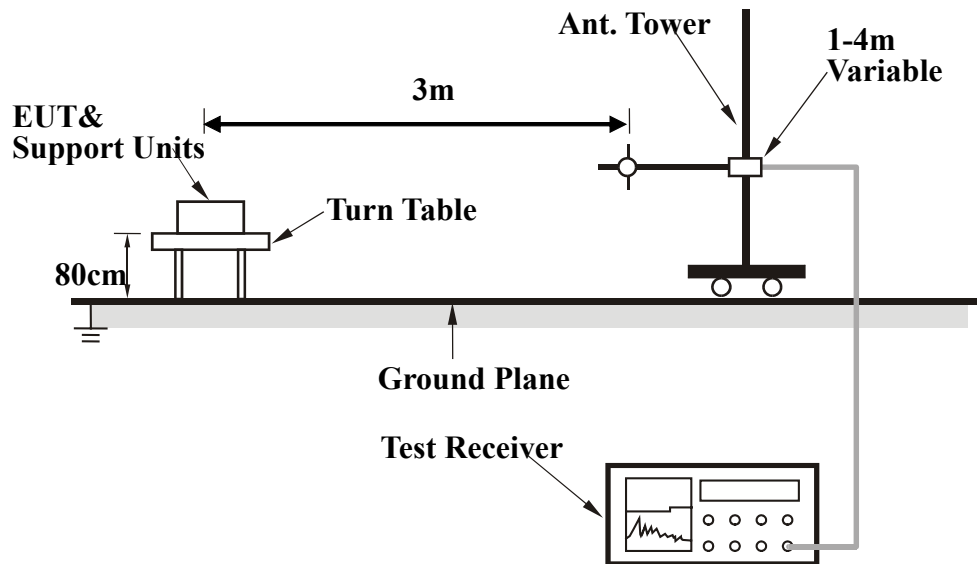
NOTE:

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 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

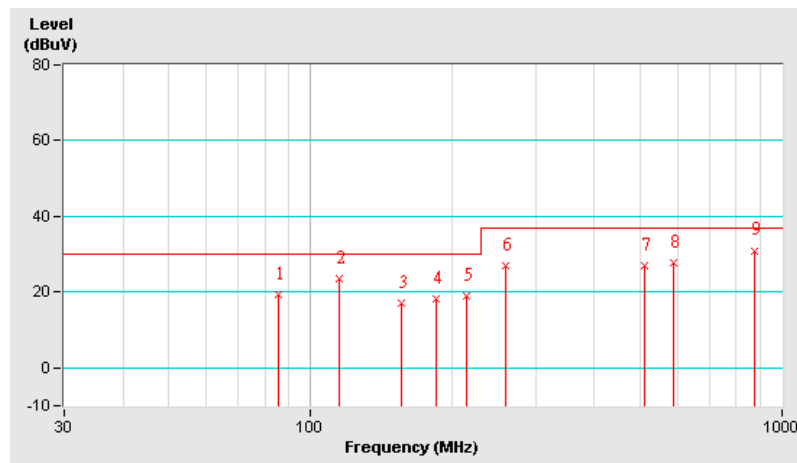
Same as item 4.1.6.

4.2.7 TEST RESULTS

EUT	27" TV Monitor	MODEL NO.	LT2740
MODE	1024x768 (60Hz/49kHz)	INPUT POWER	120Vac, 60Hz
FREQUENCY RANGE	30-1000MHz	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	31 deg. C, 71 % RH, 1043 hPa	TESTED BY: Sam Dong	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 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	85.53	19.20 QP	30.00	-10.80	4.00 H	337	10.72	8.48
2	114.85	23.45 QP	30.00	-6.55	4.00 H	150	11.02	12.43
3	156.00	17.01 QP	30.00	-12.99	4.00 H	164	6.35	10.66
4	184.63	18.25 QP	30.00	-11.75	4.00 H	24	8.34	9.91
5	214.80	18.99 QP	30.00	-11.01	4.00 H	172	7.83	11.16
6	258.80	26.81 QP	37.00	-10.19	4.00 H	70	12.38	14.43
7	512.50	26.84 QP	37.00	-10.16	2.59 H	304	6.25	20.59
8	588.30	27.58 QP	37.00	-9.42	2.02 H	249	5.69	21.89
9	875.50	30.98 QP	37.00	-6.02	1.00 H	240	6.70	24.28

- 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.

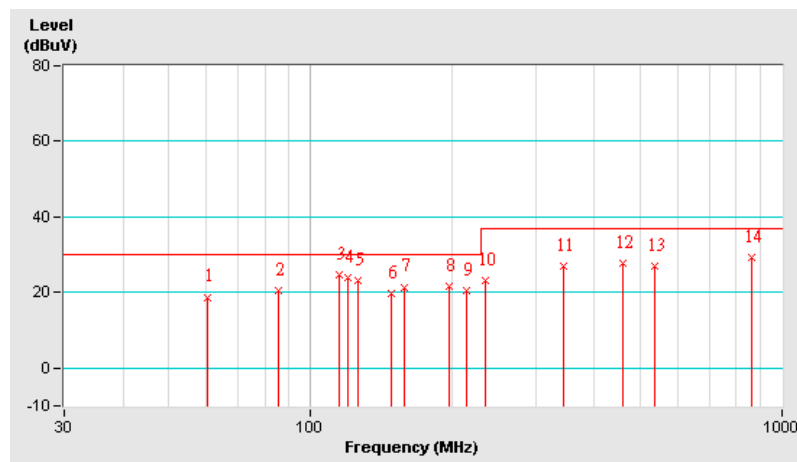


EUT	27" TV Monitor	MODEL NO.	LT2740
MODE	1024x768 (60Hz/49kHz)	INPUT POWER	120Vac, 60Hz
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	31 deg. C, 71 % RH, 1043 hPa	TESTED BY: Sam Dong	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 10 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	60.31	18.76 QP	30.00	-11.24	1.00 V	274	13.10	5.66
2	85.24	20.33 QP	30.00	-9.67	1.00 V	129	11.87	8.46
3	115.28	24.59 QP	30.00	-5.41	1.00 V	311	12.11	12.48
4	120.00	23.95 QP	30.00	-6.05	1.00 V	178	10.88	13.07
5	126.35	22.99 QP	30.00	-7.01	1.00 V	260	10.16	12.83
6	147.85	19.79 QP	30.00	-10.21	1.00 V	225	8.29	11.50
7	157.50	21.46 QP	30.00	-8.54	1.00 V	174	10.95	10.51
8	196.63	21.49 QP	30.00	-8.51	1.00 V	130	11.31	10.18
9	214.50	20.34 QP	30.00	-9.66	1.00 V	100	9.20	11.14
10	235.50	23.07 QP	37.00	-13.93	1.00 V	218	10.66	12.41
11	343.50	27.07 QP	37.00	-9.93	1.00 V	300	10.93	16.14
12	459.30	27.76 QP	37.00	-9.24	3.49 V	19	8.82	18.94
13	536.50	27.01 QP	37.00	-9.99	3.01 V	313	5.68	21.33
14	860.90	29.20 QP	37.00	-7.80	1.71 V	212	4.88	24.32

- 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, Radio, Telecom 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, A2LA
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA , CSA
R.O.C.	CNLA, BSMI, DGT
Netherlands	Telefication
Singapore	PSB , GOST-ASIA(MOU)
Russia	CERTIS(MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5/phtml.
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The address and road map of all our labs can be found in our web site also.

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