



FCC TEST REPORT

REPORT NO.: F930720A09-ID

MODEL NO.: LT2021

RECEIVED: July 20, 2004

TESTED: Aug. 3, 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: 20" TV MONITOR

BRAND NAME: NORCENT

MODEL NO.: LT2021

TEST ITEM: R&D SAMPLE

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

STANDARDS: FCC Part 15, Subpart B, Class B

ANSI C63.4-2001

ICES-003: 2004, Class B

The above equipment has been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. 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 : Jessica Cheng, **DATE:** Aug. 4, 2004
(Jessica Cheng)

**TECHNICAL
ACCEPTANCE** : Henry Lai, **DATE:** Aug. 4, 2004
Responsible for EMI (Henry Lai)

APPROVED BY : Mike Su., **DATE:** Aug. 4, 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 ICES-003: 2004, Class B	Conducted Test	PASS	Meets Class B Limit Minimum passing margin is -4.70 dB at 529.28 MHz
	Radiated Test	PASS	Meets Class B Limit Minimum passing margin is -2.22 dB at 29.958 MHz

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	2.46dB
Radiated emissions	3.82dB

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	20" TV MONITOR
MODEL NO.	LT2021
POWER SUPPLY	Switching Power Input: 100~ 240Vac, 1.5A, 50/60Hz. Non-shielded cable AC 3-pin (1.8m)
DATA CABLE	VGA shielded cable, (1.8m) with two ferrite cores.

NOTE:

1. The EUT is a 20" TV MONITOR with built-in TV tuner and optional D-Sub function. It has AV1, AV2 input, S-VIDEO input and component input connectors. This report covers EUT monitor function only.
2. 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
D-SUB	640 x 480 (75Hz / 37.5KHz)
	640 x 480 (60Hz / 31.5KHz)

Since the worst emission levels was found under resolution **640 x 480 (75Hz / 37.5KHz)** 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	DELL	4600	5YLH91S	FCC DoC Approved
2	PRINTER	EPSON	LQ-300+	DCGY017081	FCC DoC Approved
3	SPEAKER	SANYO	SYSP-802	SP07500040301 200	N/A
4	PS/2 KEYBOARD	BTC	5200T	F24800252	E5XKB5122WTH01 10
5	PS/2 MOUSE	BTC	M851	M4-010348	E5XMSM860
6	DVD player	SONY	DVP-NS530	1003693	Verification
7	VIDEO/AUDIO DISTRIBUTOR	PX	AV-004	V4-010016	FCC DoC Approved
8	VGA DISPLAY CARD	NVIDIA	P162	CN08Y4856986 13CU0681	FCC DoC Approved
9	EARPHONE	PHILIPS	SBC HL145	H2-010082	N/A
10	MODEM	ACEEX	1414	980020538	IFAXDM1414

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	1.4 m wrapped shielded wire, terminated via drain wire, with 3.5 mm phone plug, 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	1.8m Non-Shielded AV cable x1. 1.8m Non-Shielded Audio cable x1. 1.8m Non-Shielded Component cable x1.
7	1.8m Non-Shielded AV cable x2. 1.8m Non-Shielded Audio cable x2.
8	N/A
9	1.2 m wrapped shielded wire, terminated with 3.5mm phone plug via drain wire, w/o core.
10	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core.

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 8 was installed in support unit 1.
4. One Audio cable (1.8m) was connected from the EUT to 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	ESHS30	828109/007	June 06, 2005
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH3-Z5	839135/006	June 15, 2005
LISN With Adapter (for EUT)	AD10	C02Ada-001	June.15, 2005
FCC ISN	FCC-TLISN-T2-02	20117	Oct. 13, 2004
FCC ISN	FCC-TLISN-T4-02	20116	Oct. 13, 2004
FCC ISN	FCC-TLISN-T8-02	20096	Oct. 13, 2004
EMCO-L.I.S.N. (for peripheral)	3825/2	9204-1964	June 11, 2005
Software	ADT_Cond_V7.3.1	NA	NA
Software	ADT_ISN_V7.3.1	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C02.01	May 9, 2005
HP Terminator (For EMCO LISN)	11593A	E1-01-298	Feb. 1, 2005
HP Terminator (For EMCO LISN)	11593A	E1-01-299	Feb. 1, 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. 2.
4. The VCCI Site Registration No. C-240.

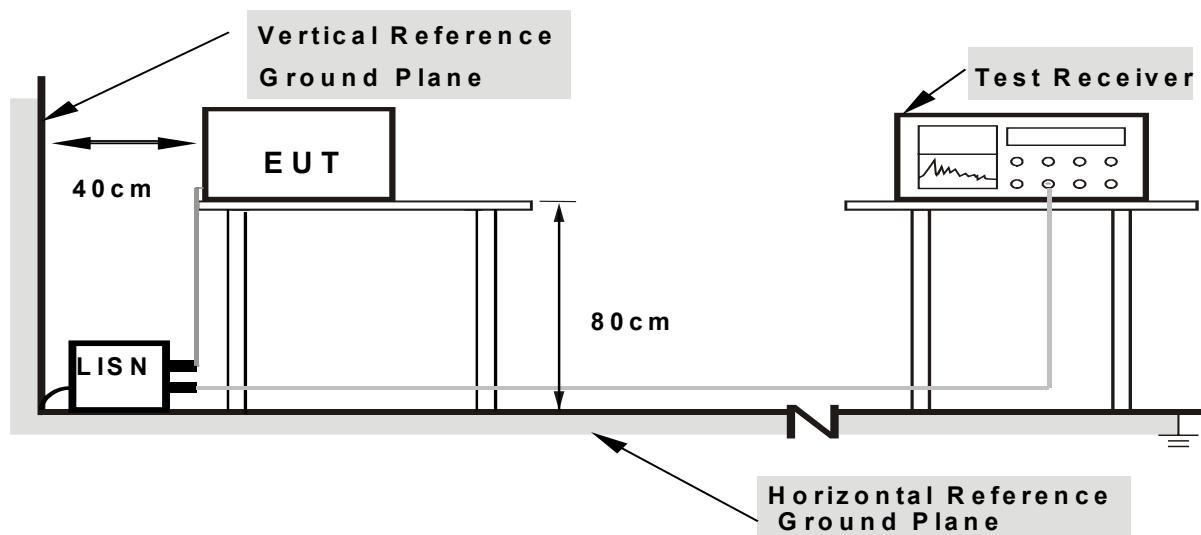
4.1.3 TEST PROCEDURE

- 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 20" 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 external speaker or earphone internal speaker via EUT.
- h. Steps c-h were repeated.

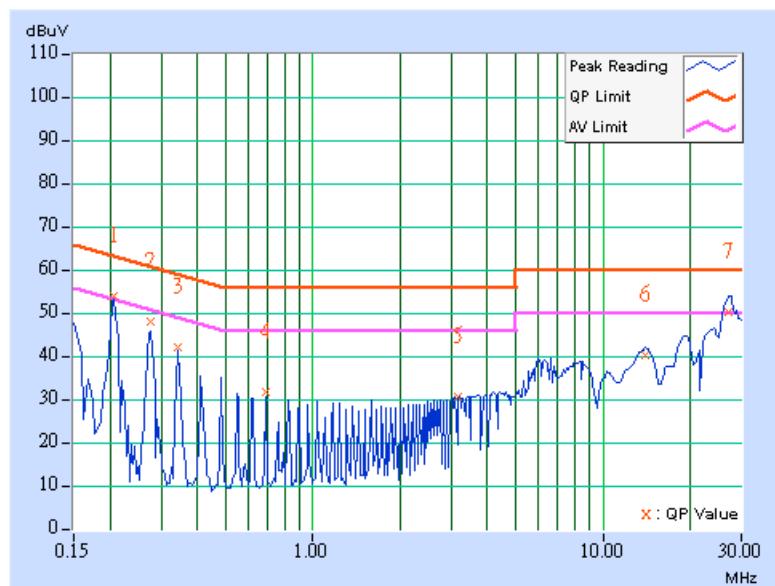
4.1.7 TEST RESULTS

EUT	20" TV MONITOR	MODEL NO.	LT2021
MODE	640x480 (75Hz/ 37.5KHz)	6dB BANDWIDTH	9 kHz
INPUT POWER	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25deg. C, 50% RH, 1043hPa		TESTED BY: Chin Wen Wang

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	0.207	0.20	52.72	-	52.92	-	63.34	53.34	-10.43	-
2	0.276	0.16	46.58	-	46.74	-	60.94	50.94	-14.20	-
3	0.345	0.13	40.93	-	41.06	-	59.09	49.09	-18.03	-
4	0.688	0.15	30.60	-	30.75	-	56.00	46.00	-25.25	-
5	3.169	0.30	29.23	-	29.53	-	56.00	46.00	-26.47	-
6	13.989	0.84	39.05	-	39.89	-	60.00	50.00	-20.11	-
7	26.946	1.42	49.07	44.93	50.49	46.35	60.00	50.00	-9.51	-3.65

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.

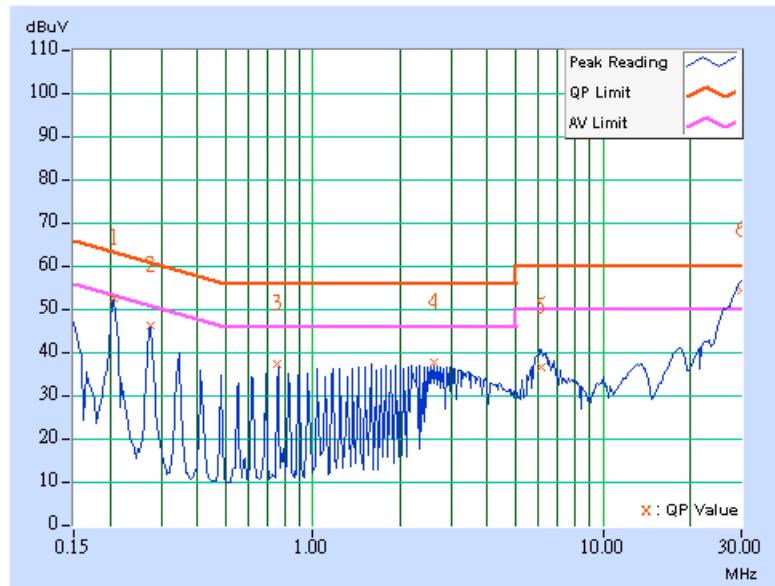


EUT	20" TV MONITOR	MODEL NO.	LT2021
MODE	640x480 (75Hz/ 37.5KHz)	6dB BANDWIDTH	9 kHz
INPUT POWER	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg. C, 50% RH, 1043hPa		TESTED BY: Chin Wen Wang

No	Freq. Factor	Corr. [MHz]	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.
1	0.207	0.20	51.02	-	51.22	-	63.34	53.34	-12.12	-
2	0.275	0.16	44.78	-	44.94	-	60.98	50.98	-16.03	-
3	0.758	0.16	35.75	-	35.91	-	56.00	46.00	-20.09	-
4	2.617	0.20	36.27	-	36.47	-	56.00	46.00	-19.53	-
5	6.159	0.31	35.09	-	35.40	-	60.00	50.00	-24.60	-
6	29.958	1.50	52.98	46.28	54.48	47.78	60.00	50.00	-5.52	-2.22

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 3m)	
	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 (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	5 th 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	8594A	3144A00308	Aug. 18, 2004
HP Preamplifier	8447D	2944A08119	Jun. 30, 2005
* HP Preamplifier	8449B	3008A01924	Oct. 12, 2004
* HP Preamplifier	8449B	3008A01638	Oct. 17, 2004
ROHDE & SCHWARZ TEST RECEIVER	ESCS 30	100276	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	CBL6112B	2433	July 16, 2005
* EMCO Horn Antenna	3115	6714	Nov. 26, 2004
* EMCO Horn Antenna	3115	9312-4192	Feb. 28, 2005
* ADT. Turn Table	TT100	0302	NA
* ADT. Tower	AT100	0302	NA
* Software	ADT_Radiated V5.14	NA	NA
* ANRITSU RF Switches	MP59B	M35046	Oct. 9, 2004
* TIMES RF cable	8D	CABLE-ST2-01	Oct. 9, 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. 2.
 5. The VCCI Site Registration No. R-237.

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.

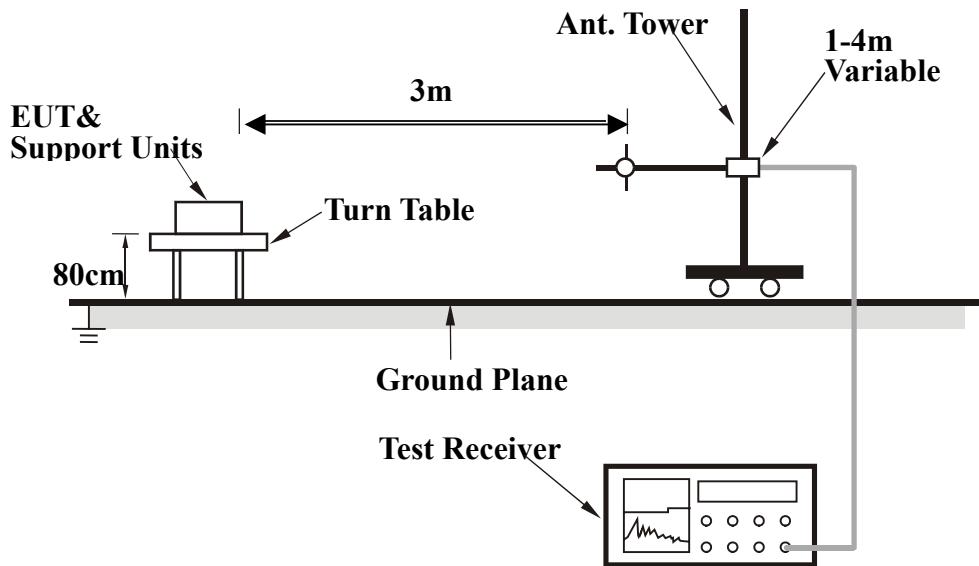
NOTE:

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 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-receiving 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.

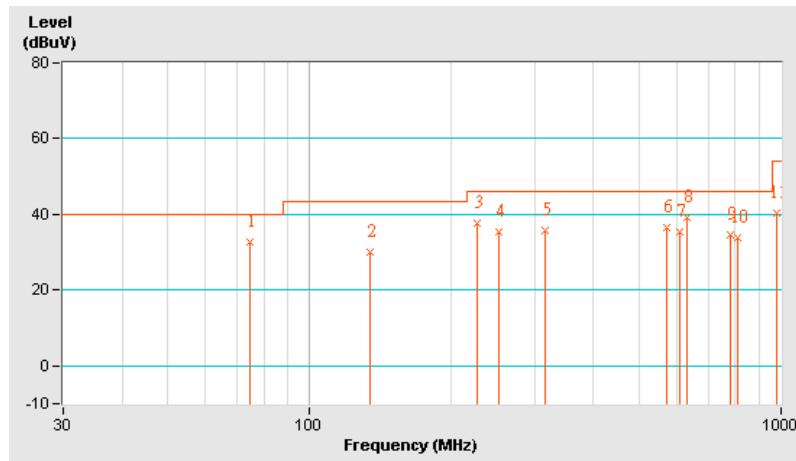
4.2.7 TEST RESULTS

EUT	20" TV MONITOR	MODEL NO.	LT2021
MODE	640x480 (75Hz/ 37.5KHz)	INPUT POWER	120Vac, 60 Hz
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	31deg. C, 70% RH, 1043hPa		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	74.66	32.85 QP	40.00	-7.15	2.34 H	176	25.25	7.60
2	133.85	30.03 QP	43.50	-13.47	1.80 H	170	17.41	12.62
3	227.20	37.65 QP	46.00	-8.35	1.54 H	173	24.87	12.78
4	252.50	35.43 QP	46.00	-10.57	1.24 H	58	20.81	14.62
5	315.40	35.60 QP	46.00	-10.40	1.58 H	155	18.78	16.82
6	572.50	36.63 QP	46.00	-9.37	1.61 H	330	12.89	23.74
7	607.80	35.43 QP	46.00	-10.57	1.35 H	237	11.63	23.80
8	632.50	39.16 QP	46.00	-6.84	1.00 H	14	15.18	23.98
9	781.80	34.74 QP	46.00	-11.26	1.23 H	108	9.68	25.06
10	811.00	33.90 QP	46.00	-12.10	1.06 H	36	8.60	25.30
11	977.50	40.23 QP	54.00	-13.77	1.56 H	179	12.89	27.34

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.

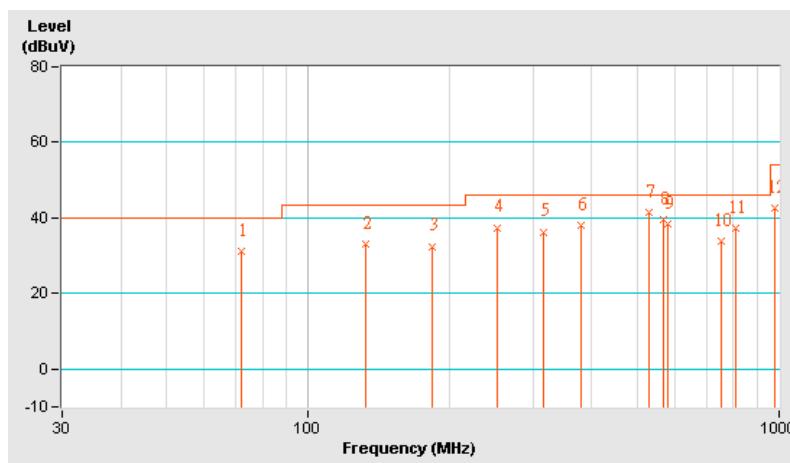


EUT	20" TV MONITOR	MODEL NO.	LT2021
MODE	640x480 (75Hz/ 37.5KHz)	INPUT POWER	120Vac, 60 Hz
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	31deg. C, 70% RH, 1043hPa		TESTED BY: Chin Wen Wang

ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	72.30	31.20 QP	40.00	-8.80	1.72 V	182	23.94	7.26
2	132.44	32.96 QP	43.50	-10.54	1.02 V	240	20.28	12.68
3	183.00	32.51 QP	43.50	-10.99	1.00 V	269	21.93	10.58
4	252.50	37.45 QP	46.00	-8.55	1.68 V	0	22.83	14.62
5	315.40	36.31 QP	46.00	-9.69	1.78 V	124	19.49	16.82
6	378.80	37.98 QP	46.00	-8.02	1.54 V	72	19.42	18.56
7	529.28	41.30 QP	46.00	-4.70	1.00 V	0	18.40	22.90
8	567.00	39.49 QP	46.00	-6.51	1.25 V	170	15.75	23.74
9	580.80	38.46 QP	46.00	-7.54	1.00 V	191	14.72	23.74
10	756.00	33.81 QP	46.00	-12.19	1.09 V	180	8.88	24.93
11	810.00	37.32 QP	46.00	-8.68	1.12 V	353	12.03	25.29
12	976.40	42.69 QP	54.00	-11.31	1.05 V	211	15.35	27.34

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



FCC ID: R46TV2004T



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, A2LA
Germany	TUV Rheinland
Japan	VCCI
New Zealand	MoC
Norway	NEMKO
Canada	INDUSTRY CANADA
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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. If you have any comments, please feel free to contact us at the following:

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Fax: 886-2-26052943

Hsin Chu EMC/RF Lab:

Tel: 886-35-935343
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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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