



FCC TEST REPORT

REPORT NO. : RF960911H04

MODEL NO. : DTZ-2100X, DTZ-2100D

RECEIVED : Sep. 11, 2007

TESTED : Sep. 11 to 29, 2007

ISSUED : Sep. 29, 2007

APPLICANT : Coretronic Corp.

ADDRESS : No. 11, Li-Hsing Road, Science Park, Hsinchu,
Taiwan 300, R.O.C.

ISSUED BY : Advance Data Technology Corporation

LAB LOCATION : No. 81-1, Lu Liao Keng, 9 Ling, Wu Lung Tsuen,
Chiung Lin Hsiang, Hsin Chu Hsien,
Taiwan, R.O.C.

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No. 2177-01



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1 CERTIFICATION

PRODUCT : LCD tablet
BRAND NAME : Wacom
MODEL NO. : DTZ-2100X, DTZ-2100D
TESTED : Sep. 11 to 14, 2007
TEST SAMPLE : ENGINEERING SAMPLE
APPLICANT : Coretronic Corp.
STANDARDS : 47 CFR Part 15, Subpart C (Section 15.209),
ANSI C63.4-2003

The above equipment (Model: DTZ-2100D) 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 : , **DATE:** Sep. 29, 2007
(Sunny Wen, Specialist)

TECHNICAL ACCEPTANCE : , **DATE:** Sep. 29, 2007
Responsible for RF (Hank Chung, Deputy Manager)

APPROVED BY : , **DATE:** Sep. 29, 2007
(May Chen, Deputy Manager)

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: 47 CFR Part 15, Subpart C			
Standard	Test Type	Result	Remarks
47 CFR Part 15, Subpart C	Conducted Test	PASS	Meets Class B Limit Minimum passing margin is -28.51 dB at 0.150 MHz
	Radiated Test	PASS	Meets Class B Limit Minimum passing margin is -5.38 dB at 127.20 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:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Measurement	Value
Conducted emissions	2.41 dB
Radiated emissions (30MHz-1GHz)	3.89 dB
Radiated emissions (1GHz ~18GHz)	2.21 dB

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	LCD tablet
MODEL NO.	DTZ-2100X, DTZ-2100D
FCC ID	SUZDTZ2100D
POWER SUPPLY	Power Adapter, Class I
FREQUENCY RANGE	666.7KHz
DATA CABLE	Y type signal cable (shielded, 1.5m with 2 cores)
POWER CORD	AC Input cable (unshielded, 1.8m) DC output cable (unshielded, 1.8m with 1 core)
ANTENNA TYPE	Loop Antenna
ASSOCIATED DEVICES	Remote control pen

Note:

1. The EUT has different models names, which are identical to each other in all aspects except for the followings :

Brand	Model No.	Difference
Wacom	DTZ-2100X (X could be "0~9", "a~Z")	For marking requirement
	DTZ-2100D	

From the above models, model: **DTZ-2100D** was selected as representative model for the test and its data was recorded in this report.

2. The EUT must be supplied with a power adapter as following :

Brand	Model No.	Spec.
LI-SHIN	LSE0452B1280	AC Input : 100-240V~, 50/60Hz, 1A DC Output : 12V, 6.67A

3. The EUT must be assembled a LCD Panel as following :

Brand	Model No.
NEC	NL160120BC27-XX (X could be "0~9", "a~Z")

4. The EUT must be assembled an Inverter as following :

Brand	Model No.
TPCI	TI2106CO-06

5. The EUT must be assembled a Main Board as following :

Model No.
FLI5962H

6. The EUT was pre-tested under the following modes :

Mode	Resolution
Mode A	1600 x 1200 / 60Hz with Digital
Mode B	1280 x 1024 / 60Hz with Digital
Mode C	640 x 480 / 60Hz with Digital
Mode D	1600 x 1200 / 60Hz with Analog
Mode E	1280 x 1024 / 60Hz with Analog
Mode F	640 x 480 / 60Hz with Analog

From the above modes, the worst cases were found in **Mode A**. Therefore only the test data of the modes were recorded in this report individually.

7. For radiated emission test, pretest the Loop antenna was rotated about the X and Y axis during below 30MHz, the worst data was found in Y axis.
8. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

3.2 DESCRIPTION OF TEST MODES

One channel is provided to this EUT.

Channel	Frequency
1	666.7KHz

The EUT was tested under the following test mode, and its data were recorded in this report:

Test Mode	Resolution
Mode 1	1600 x 1200 / 60Hz with Digital

3.3 DESCRIPTION OF SUPPORT UNITS

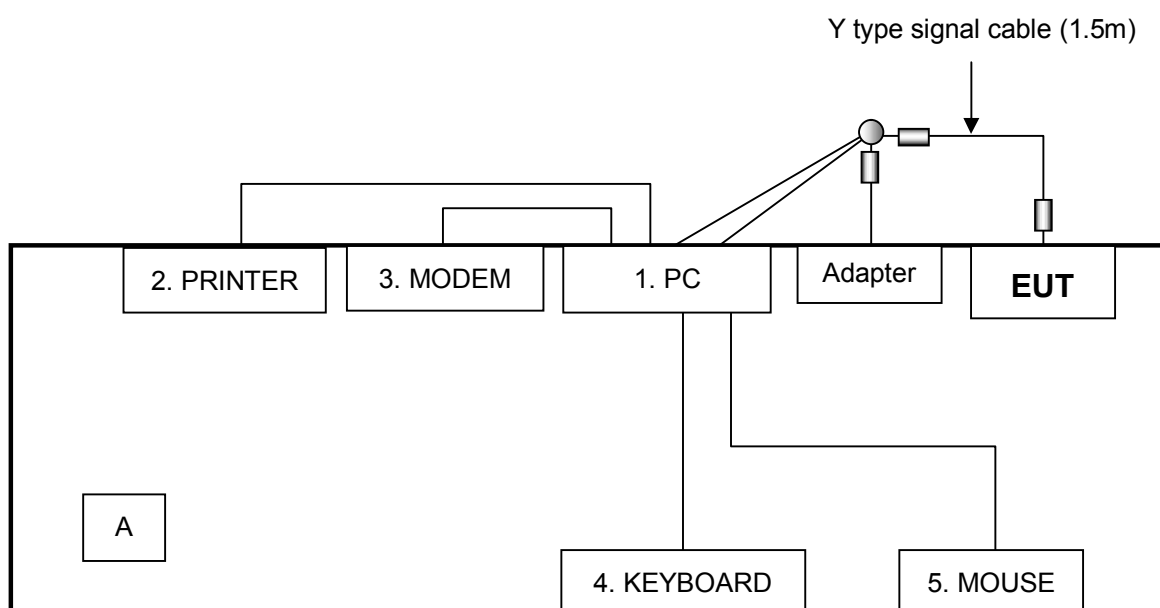
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Product	Brand	Model No.	Serial No.	FCC ID
1	PERSONAL COMPUTER	DELL	DCSM	H84QL1S	DoC
2	PRINTER	EPSON	LQ-300+	DCGY017097	DoC
3	MODEM	ACEEX	1414	980020560	IFAXDM1414
4	KEYBOARD	DELL	SK-8115	MY-0J4635-71619-67V-0349	FCC Standards
5	MOUSE	DELL	M056UOA	FOROOSNB	FCC Standards

No.	Signal cable description
1	NA
2	1.8 m 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	1.9 m foil shielded wire, terminated with USB connector via drain wire, w/o core.
5	1.8 m foil shielded wire, terminated with USB connector via drain wire, w/o core.

Note: 1. The power cords of the above support units were unshielded (1.8m).

3.4 CONFIGURATION OF SYSTEM UNDER TEST



NOTE: 1. Item A is the remote control pen of the EUT.

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
Test Receiver	ESCS 30	847124/029	Mar. 28, 2008
Line-Impedance Stabilization Network(for EUT)	ENV-216	100071	Nov. 26, 2007
Line-Impedance Stabilization Network(for Peripheral)	ESH3-Z5	848773/004	Oct. 26, 2007
RF Cable (JETBAO)	RG233/U	Cable_CB_01	Dec. 09, 2007
Terminator	50	2	Oct. 30, 2007
Software	ADT_Cond_V7.3.2	NA	NA

- 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. The test was performed in ADT Shielded Room No. B.
3. The VCCI Con B Registration No. is C-2193.

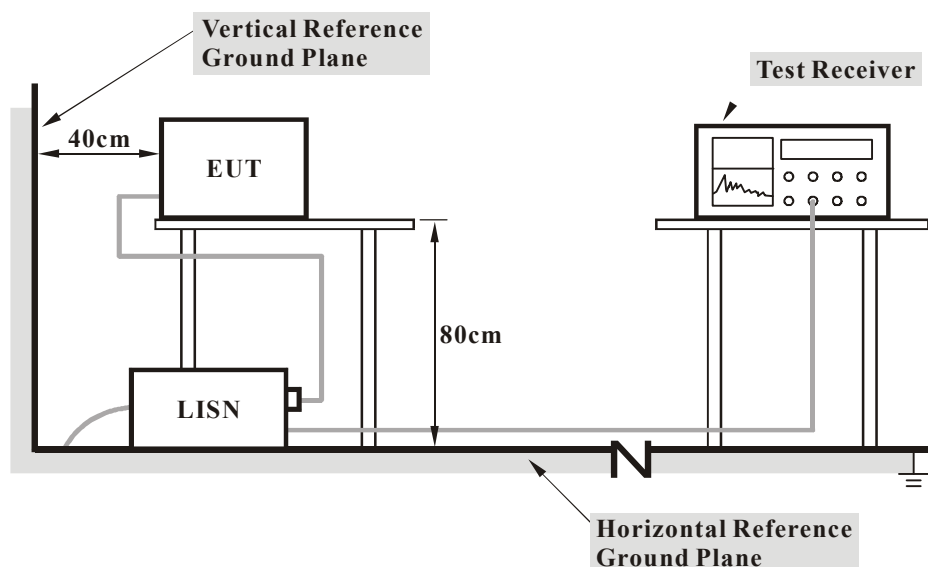
4.1.3 TEST PROCEDURE

- 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 over 20dB under the prescribed limits could not be reported.

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 support units.

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



4.1.6 EUT OPERATING CONDITIONS

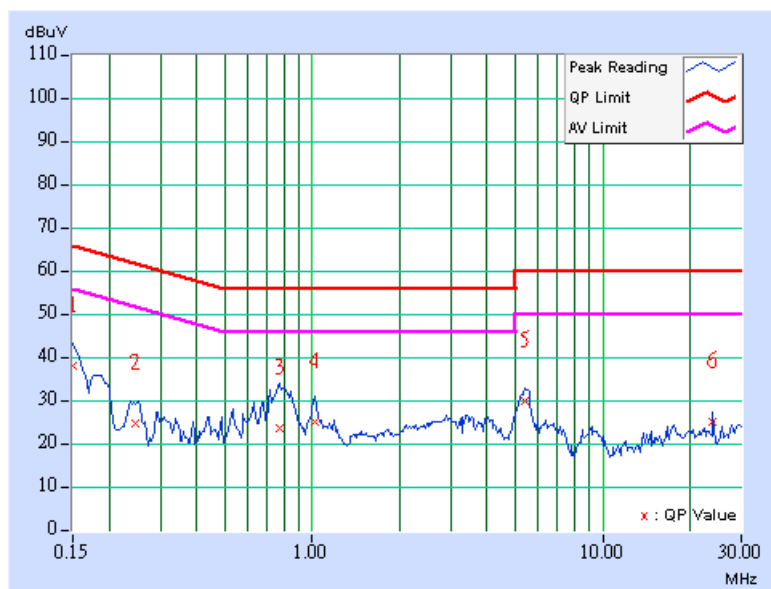
1. Turn on the power of all equipment.
2. Enable touch screen function.
3. PC runs "EMCTEST.exe" sends "H" messages to LCD monitor (EUT).
EUT scrolling "H" patterns on its screen.
4. PC sends "H" messages to modem.
5. PC sends "H" messages to printer, and the printer prints them on paper.
6. Repeat steps 2-5.

4.1.7 TEST RESULTS

TEST MODE	Mode 1	PHASE	Line (L)
INPUT POWER	120Vac, 60Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 70% RH, 981 hPa	TESTED BY : Tony Chen	

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	0.40	37.09	-	37.49	-	66.00	56.00	-28.51	-
2	0.246	0.40	23.69	-	24.09	-	61.88	51.88	-37.79	-
3	0.775	0.40	22.69	-	23.09	-	56.00	46.00	-32.91	-
4	1.021	0.40	24.29	-	24.69	-	56.00	46.00	-31.31	-
5	5.375	0.65	29.15	-	29.80	-	60.00	50.00	-30.20	-
6	23.973	1.00	24.35	-	25.35	-	60.00	50.00	-34.65	-

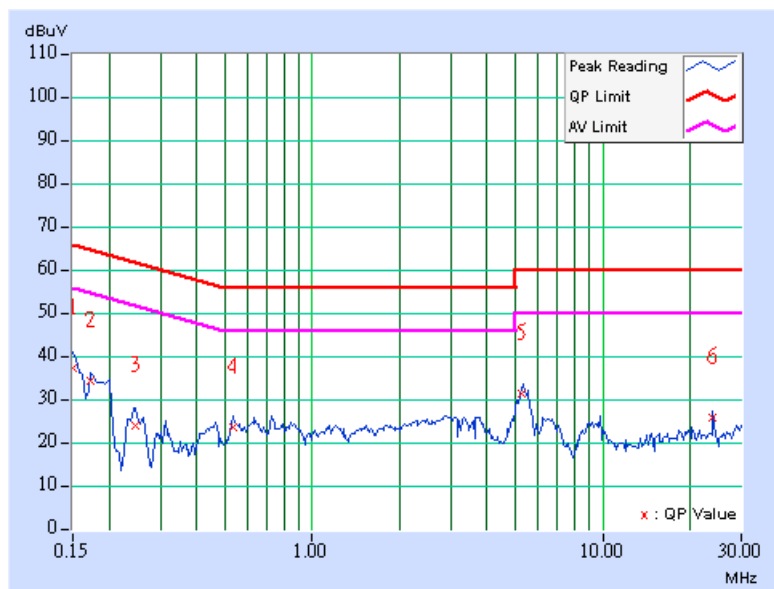
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



TEST MODE	Mode 1	6dB BANDWIDTH	9 kHz
INPUT POWER	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	20 deg. C, 70% RH, 981 hPa	TESTED BY : Tony Chen	

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	0.20	35.92	-	36.12	-	66.00	56.00	-29.88	-
2	0.173	0.20	33.03	-	33.23	-	64.79	54.79	-31.56	-
3	0.248	0.20	22.82	-	23.02	-	61.84	51.84	-38.82	-
4	0.533	0.22	22.38	-	22.60	-	56.00	46.00	-33.40	-
5	5.273	0.58	29.97	-	30.55	-	60.00	50.00	-29.45	-
6	23.973	1.38	24.39	-	25.77	-	60.00	50.00	-34.23	-

- 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 30 MHz

FREQUENCY (MHz)	Field Strength		Measurement Distance (meters)
	uV/m	dBuV/m	
0.009 – 0.490	2400 / F (kHz)	48.52-13.80	300
0.490 – 1.705	24000 / F (kHz)	33.80-22.97	30
1.705 – 30.0	30	29.54	30

BETWEEN 30-1000 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
960 – 1000	300	49.5	500	54.0

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.



4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ADVANTEST Spectrum Analyzer	R3271A	85060311	July 15, 2008
HP Pre_Amplifier	8449B	3008A01922	Sep. 18, 2008
ROHDE & SCHWARZ Test Receiver	ESCS30	100375	Sep. 20, 2008
CHASE Broadband Antenna	VULB 9168	138	July 26, 2008
Schwarzbeck Horn_Antenna	BBHA9120	D124	Jan. 01, 2008
Schwarzbeck Horn_Antenna	BBHA 9170	BBHA9170153	Jan. 25, 2008
TRILOG Broad Band Antenna	VULB 9168	138	July 26, 2008
R&S Loop Antenna	HFH2-Z2	881058/15	Nov. 29, 2007
RF Switches (ARNITSU)	CS-201	1565157	Aug. 13, 2008
RF CABLE (Chaintek)	SF102	22054-2	Nov. 14. 2007
RF Cable(RICHTEC)	9913-30M N-N Cable	STCCAB-30M-1 GHz	Aug. 13, 2008
Software	ADT_Radiated_V 7.6.15.7	NA	NA
CHANCE MOST Antenna Tower	AT-100	0203	NA
CHANCE MOST Turn Table	TT-100	0203	NA

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. The horn antenna, HP preamplifier (model: 8449B) and Spectrum Analyzer (model: R3271A) are used only for the measurement of emission frequency above 1GHz if tested.
3. The test was performed in ADT Open Site No. C.
4. The FCC Site Registration No. is 656396.
5. The VCCI Site Registration No. is R-1626.
6. The CANADA Site Registration No. is IC 4824A-3.

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 field 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 polarization's 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 rotating table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.

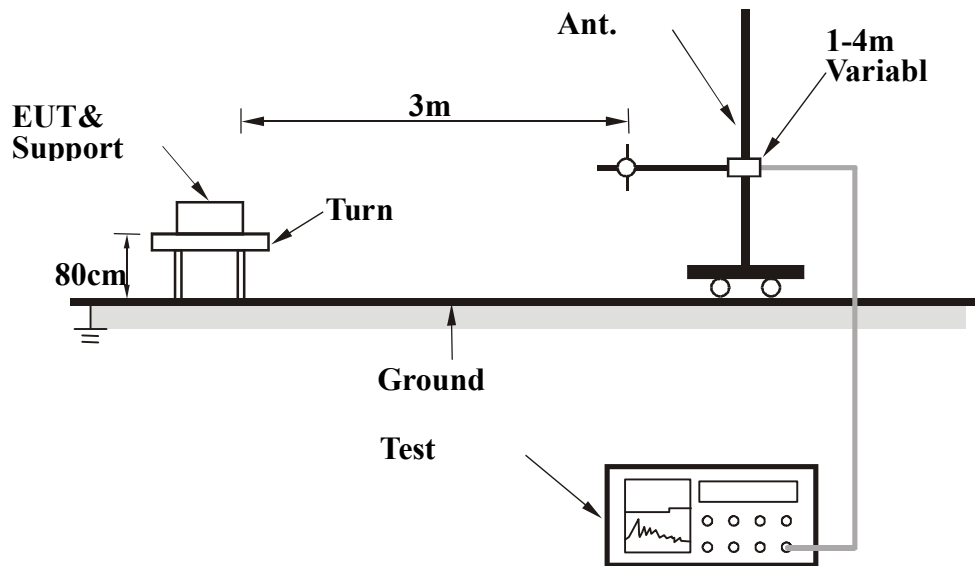
NOTE:

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 is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz 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 4.1.6



4.2.7 TEST RESULTS

TEST MODE	Mode 1	FREQUENCY RANGE	9 kHz ~ 30 MHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak, 9kHz
ENVIRONMENTAL CONDITIONS	24 deg. C, 62 % RH, 968 hPa	TESTED BY	Moris Lin

ANTENNA POLARITY & TEST DISTANCE: 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	0.67	54.2	71.12	-16.92	1.50 V	128	25.25	28.95
2	1.33	45.8	71.12	-25.32	1.50 V	16	16.85	28.95
3	2.00	43.8	69.5	-25.7	1.50 V	208	14.85	28.95
4	2.68	42.4	69.5	-27.1	1.50 V	306	13.45	28.95
5	3.36	32.6	69.5	-36.9	1.50 V	48	3.65	28.95
6	4.00	29.2	69.5	-40.3	1.50 V	20	0.25	28.95
7	4.66	28.8	69.5	-40.7	1.50 V	96	-0.15	28.95
8	5.36	28.6	69.5	-40.9	1.50 V	162	-0.35	28.95
9	6.02	30.6	69.5	-38.9	1.50 V	34	1.65	28.95
10	6.74	28.2	69.5	-41.3	1.50 V	4	-0.75	28.95

- 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.

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

$$\begin{aligned}
 24000/666.7\text{KHz} &= 36 \text{ uV/m} && 30\text{m} \\
 &= 31.12 \text{ dBuV/m} && 30\text{m} \\
 &= 31.12 + 20\log(30/3)^2 && 3\text{m} \\
 &= 71.12 \text{ dBuV/m}
 \end{aligned}$$



TEST MODE	Mode 1	FREQUENCY RANGE	30-1000 MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 66%RH, 968 hPa	TESTED BY	Moris Lin

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	127.01	28.88 QP	43.50	-14.62	3.00 H	121	27.17	1.71
2	190.12	36.84 QP	43.50	-6.66	3.00 H	310	36.19	0.65
3	342.60	35.83 QP	46.00	-10.17	2.10 H	223	27.66	8.17
4	647.99	37.03 QP	46.00	-8.97	1.58 H	236	20.66	16.37
5	765.30	39.01 QP	46.00	-6.99	1.00 H	80	23.18	15.83
6	890.99	39.32 QP	46.00	-6.68	1.00 H	60	20.83	18.49

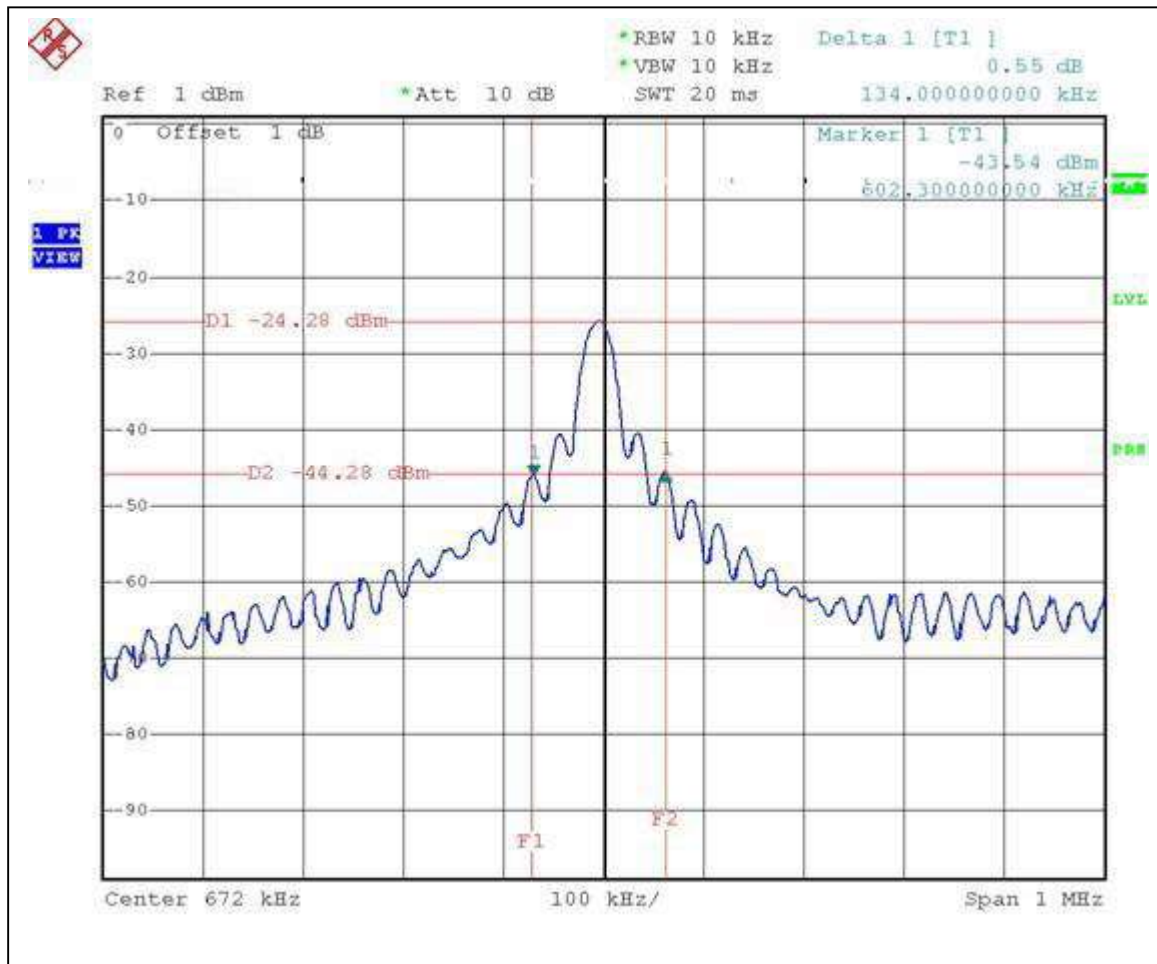
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

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	127.20	38.12 QP	43.50	-5.38	1.00 V	156	39.43	-1.31
2	190.80	35.60 QP	43.50	-7.90	1.00 V	269	38.16	-2.56
3	316.01	37.39 QP	46.00	-8.61	1.00 V	300	30.92	6.47
4	707.02	39.49 QP	46.00	-6.51	2.21 V	30	24.95	14.54
5	809.98	40.21 QP	46.00	-5.79	2.25 V	300	22.50	17.71
6	890.98	37.83 QP	46.00	-8.17	1.40 V	336	19.40	18.43

- 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.

4.2.8 TEST RESULTS (SPECTRUM BANDWIDTH)

666.7 KHz





5 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:

USA	FCC, UL, A2LA
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA, CSA
R.O.C.	TAF, BSMI, NCC
Netherlands	Telefication
Singapore	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. If you have any comments, please feel free to contact us at the following:

Lin Kou EMC Lab:
Tel: 886-2-26052180
Fax: 886-2-26052943

Hsin Chu EMC Lab:
Tel: 886-3-5935343
Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab:
Tel: 886-3-3183232
Fax: 886-3-3185050

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



6 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.