EMC TEST REPORT

REPORT NO. : RM941208L11
MODEL NO. : SDC-CF10G
RECEIVED : Mar. 21, 2006
TESTED : Apr. 20 ~ Apr. 24, 2006
ISSUED : Apr. 27, 2006

APPLICANT: Summit Data Communications, Inc.

ADDRESS: 526 South Main Street Suite 411, Akron, Ohio, 44311 United States

ISSUED BY: Advance Data Technology Corporation

LAB ADDRESS: No.47, 14th Ling, Chia Pau Tsuen, Linko Hsiang 244, Taipei Hsien, Taiwan, R.O.C.

TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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1 CERTIFICATION

PRODUCT:	SDC-CF10G 802.11g Compact Flash Module with Antenna Connectors
MODEL:	SDC-CF10G
BRAND:	Summit
TESTED:	Apr. 20 ~ Apr. 24, 2006
APPLICANT:	Summit Data Communications, Inc.
TEST SAMPLE:	ENGINEERING SAMPLE
STANDARDS:	**EN 301 489-1 V1.5.1 (2004-11)** **EN 301 489-17 V1.2.1 (2002-08)** EN 55022:1998+A1:2000+A2:2003, Class B EN 61000-4-2:1995+A1:1998+A2:2001 EN 61000-4-3:2002+A1:2002

The above equipment have 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 : Jessie Wang , **DATE** : Apr. 27, 2006

TECHNICAL ACCEPTANCE : David Liu , **DATE** : Apr. 27, 2006
Responsible for EMC

APPROVED BY : Clark Lin / Deputy Manager , **DATE** : Apr. 27, 2006

2 SUMMARY OF TEST RESULTS

After estimating all the combination of every test mode, the result shown as below is the worst case.

The EUT has been tested according to the following specifications:

EMISSION			
Standard	**Test Type**	**Result**	**Remarks**
EN 55022:1998+A1: 2000+A2:2003, Class B	Conducted Test	PASS	Meets Class B Limit Minimum passing margin is -14.34dB at 4.309MHz
	Radiated Test	NA	Not Applicable

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

IMMUNITY (EN 301 489-1 V1.5.1, EN 301 489-17 V1.2.1)			
Standard	**Test Type**	**Result**	**Remarks**
EN 61000-4-2:1995 +A1:1998+A2:2001	Electrostatic discharge immunity test	PASS	Meets the requirements of Performance Criterion A
EN 61000-4-3:2002 +A1:2002	Radiated, radio-frequency, electromagnetic field immunity test	PASS	Meets the requirements of Performance Criterion A

NOTE: Please refer to Item 3.3 for more detailed description.

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	SDC-CF10G 802.11g Compact Flash Module with Antenna Connectors
MODEL NO.	SDC-CF10G
POWER SUPPLY	3.3Vdc from host equipment
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b:11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps
NUMBER OF CHANNEL	13
OPERATING FREQUENCY	2400 ~ 2483.5MHz
ANTENNA TYPE	Refer to Note 1 as below
I/O PORTS	NA
DATA CABLE	NA

NOTE:

1. There are 3 antennas provided to this EUT. The information about those antennas as below table:

ANTENNA NO.	MODEL NAME	TYPE	GAIN	TYPE OF ANTENNA CONNECTOR
1	-	Dipole	2.2dBi	UFL
2	**VMT**	**Dipole**	**2.2dBi**	**UFL**
3	**MX3**	**Printed**	**0dBi**	**UFL**

* After pre-test for each type of antenna and chosen the antenna 2 & 3 for test.

2. There are two test results presented in the report, please refer to list as below.

Test Mode	Test Condition
A	Antenna 2: Dipole antenna with 2.2dBi
B	Antenna 3: Printed antenna with 0dBi

3. The platform: (1) Mobile Data Terminals (MDTs), (2) Vehicle Mounted Devices(VMDs)
4. The EUT, operates in the 2.4GHz frequency range, lets you connect IEEE 802.11g or IEEE 802.11b devices to the network. With its high-speed data transmissions of up to 54Mbps.
5. The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 DESCRIPTION OF TEST MODE

The EUT was tested under following conditions:

CONDITION	CONFIGURATION
1	Transmission
2	Standby

There are two test results presented in the report, please refer to list as below.

TEST MODE	TEST CONDITION
A	Antenna 2: Dipole antenna with 2.2dBi
B	Antenna 3: Printed antenna with 0dBi

3.3 GENERAL DESCRIPTION OF APPLIED STANDARD

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

EN 301 489-1 V1.5.1 (2004-11), EN 301 489-17 V1.2.1 (2002-08)
EN 55022:1998+A1:2000+A2:2003, Class B (Conducted Emission Test)
EN 61000-4-2:1995+A1: 1998+A2:2001
EN 61000-4-3:2002+A1:2002

According to clause 7.1 (table 2) and clause 7.2 (table 3) of **EN 301 489-1 V1.5.1 (2004-11)**, all test items have been performed and recorded as per the above standards.

3.4 DESCRIPTION OF SUPPORT UNIT

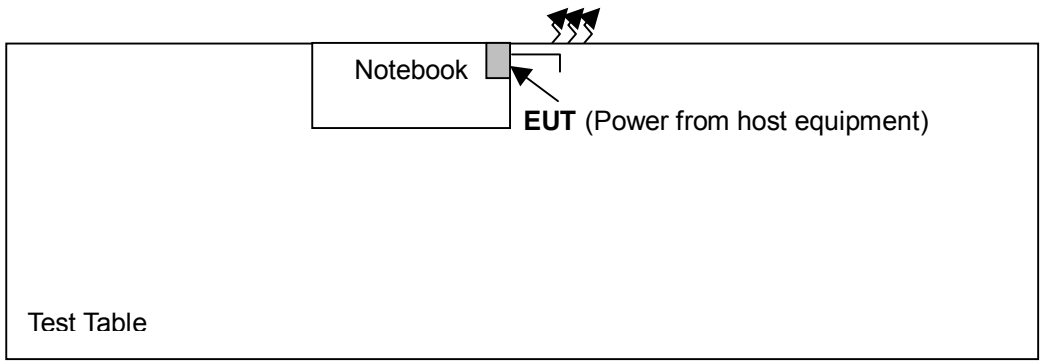
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

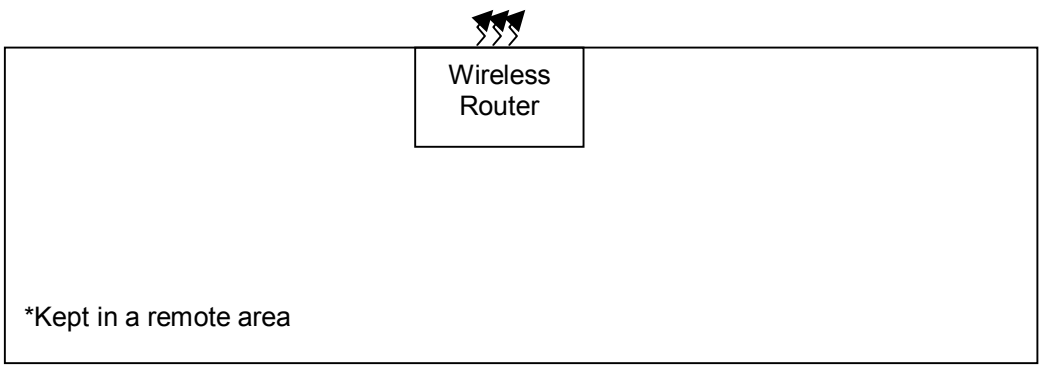
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP05L	3616274224	E2K24CLNS
2	WIRELESS BROADBAND ROUTER	BUFFALO	WBR-G54	14070444314455	FCC DoC Approved

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	NA

NOTE:
1. All power cords of the above support units are non shielded (1.8m).
2. Item 2 acted as communication partners to transfer data.

3.5 CONFIGURATION OF SYSTEM UNDER TEST





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

NOTE: (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 ROHDE & SCHWARZ	ESCS30	100288	Nov. 02, 2006
RF signal cable Woken	5D-FB	Cable-HYCO3-01	Jan. 06, 2007
LISN ROHDE & SCHWARZ	ESH2-Z5	100100	Jan. 09, 2007
LISN ROHDE & SCHWARZ	ESH3-Z5	100311	Jan. 22, 2007
Software ADT	ADT_Cond_V3	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 HwaYa Shielded Room 3.
3. The VCCI Site Registration No. is C-2047.

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.

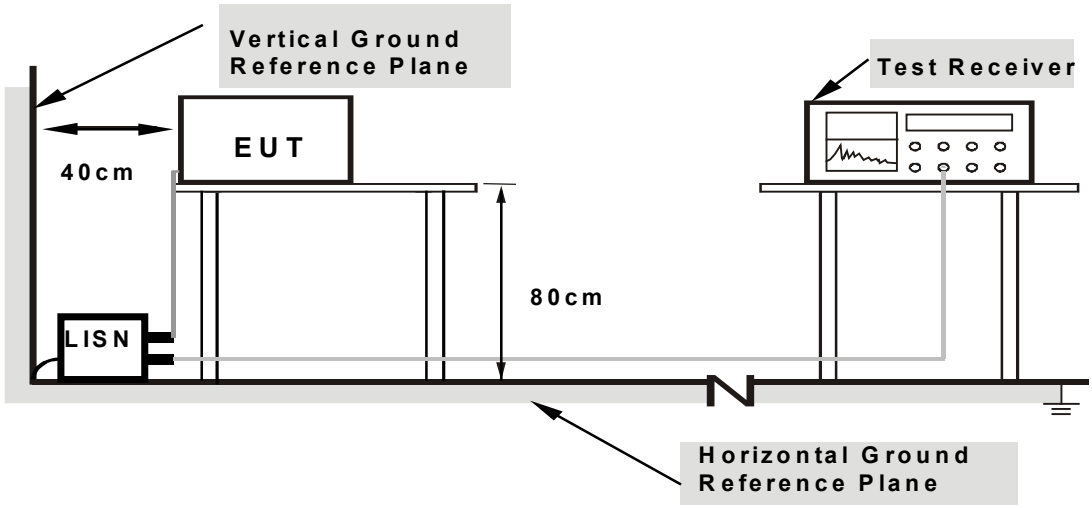
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

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

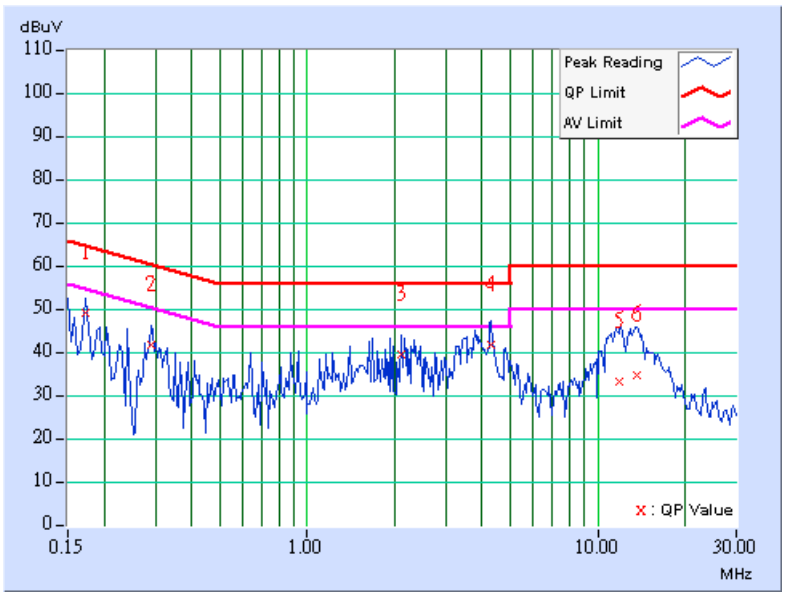
a. Plugged EUT in notebook system and placed on the testing table.
b. Prepared the wireless broadband router and placed it outside of testing area to act as communication partner for EUT.
c. The communication partner sent data to EUT by command "PING".

4.1.7 TEST RESULTS

INPUT POWER (SYSTEM)	230Vac, 50 Hz	**6dB BANDWIDTH**	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 60% RH, 991hPa	**PHASE**	Line 1
TEST MODE	A	**TESTED BY**	Kent Chen

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.173	0.10	48.79	-	48.89	-	64.79	54.79	-15.90	-
2	0.291	0.10	41.35	-	41.45	-	60.51	50.51	-19.06	-
3	2.098	0.21	38.95	-	39.16	-	56.00	46.00	-16.84	-
4	**4.309**	**0.37**	**41.29**	**-**	**41.66**	**-**	**56.00**	**46.00**	**-14.34**	**-**
5	11.941	0.46	32.77	-	33.23	-	60.00	50.00	-26.77	-
6	13.625	0.56	34.35	-	34.91	-	60.00	50.00	-25.09	-

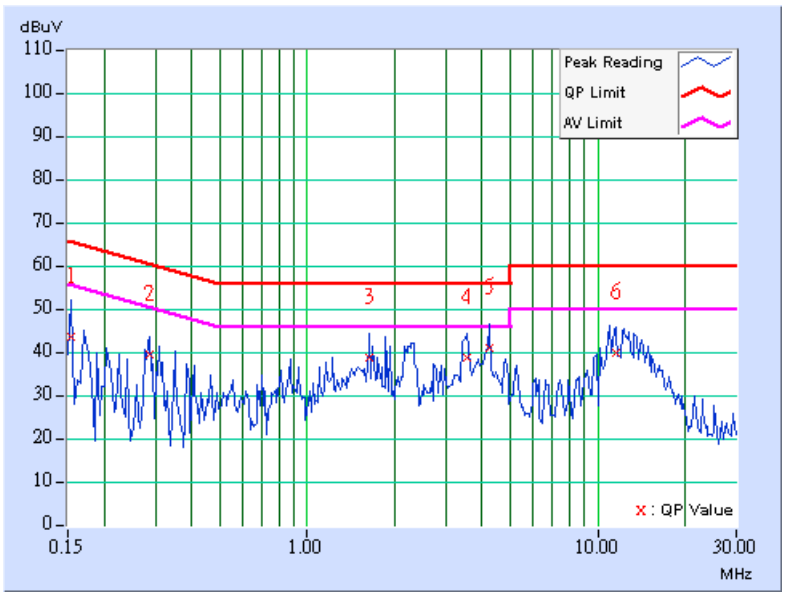
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



INPUT POWER (SYSTEM)	230Vac, 50 Hz	**6dB BANDWIDTH**	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 60% RH, 991hPa	**PHASE**	Line 2
TEST MODE	A	**TESTED BY**	Kent Chen

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.154	0.10	43.02	-	43.12	-	65.79	55.79	-22.67	-
2	0.287	0.10	39.17	-	39.27	-	60.62	50.62	-21.35	-
3	1.629	0.20	38.49	-	38.69	-	56.00	46.00	-17.31	-
4	3.547	0.33	38.47	-	38.80	-	56.00	46.00	-17.20	-
5	4.246	0.37	40.44	-	40.81	-	56.00	46.00	-15.19	-
6	11.520	0.51	39.66	-	40.17	-	60.00	50.00	-19.83	-

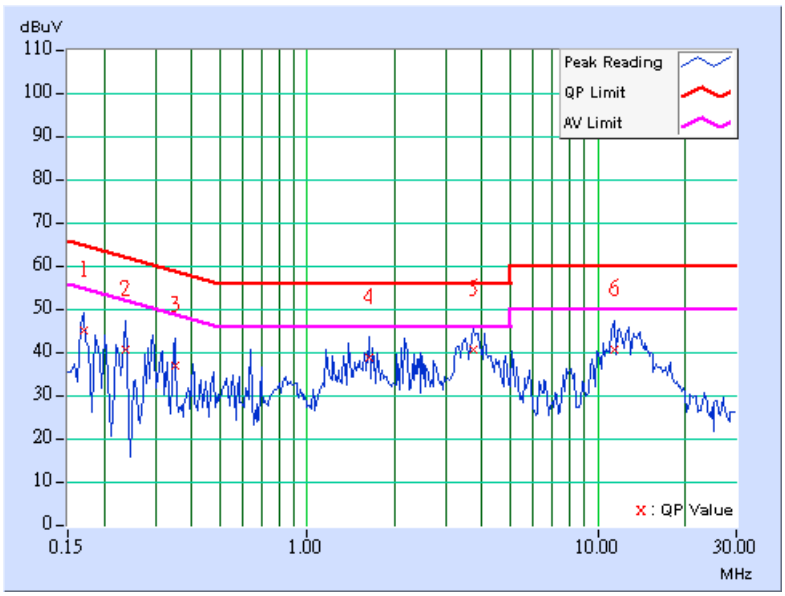
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



INPUT POWER (SYSTEM)	230Vac, 50 Hz	**6dB BANDWIDTH**	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 60% RH, 991hPa	**PHASE**	Line 1
TEST MODE	B	**TESTED BY**	Kent Chen

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	44.72	-	44.82	-	64.98	54.98	-20.16	-
2	0.236	0.10	40.35	-	40.45	-	62.24	52.24	-21.79	-
3	0.349	0.10	36.42	-	36.52	-	58.98	48.98	-22.46	-
4	1.629	0.16	38.33	-	38.49	-	56.00	46.00	-17.51	-
5	3.719	0.35	40.44	-	40.79	-	56.00	46.00	-15.21	-
6	11.449	0.44	40.23	-	40.67	-	60.00	50.00	-19.33	-

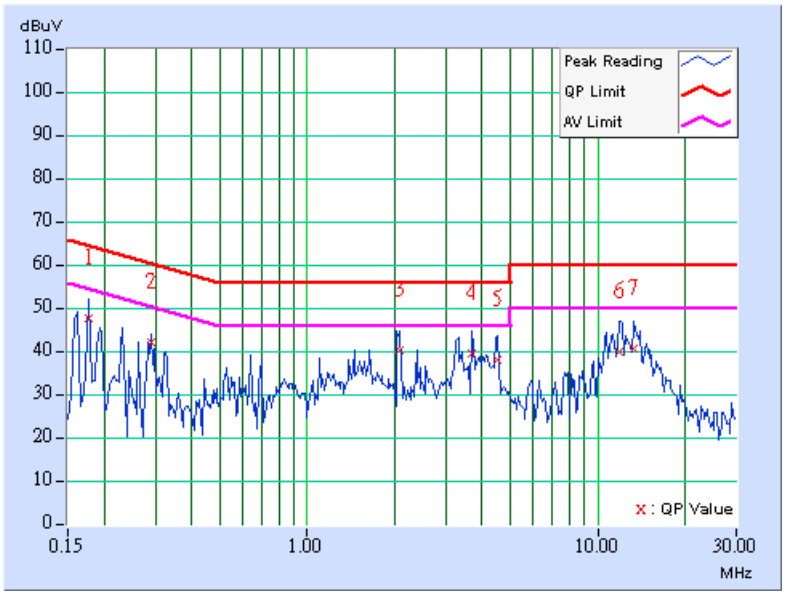
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



INPUT POWER (SYSTEM)	230Vac, 50 Hz	**6dB BANDWIDTH**	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 60% RH, 991hPa	**PHASE**	Line 2
TEST MODE	B	**TESTED BY**	Kent Chen

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	0.10	47.07	-	47.17	-	64.61	54.61	-17.44	-
2	0.291	0.10	41.47	-	41.57	-	60.51	50.51	-18.94	-
3	2.094	0.21	39.76	-	39.97	-	56.00	46.00	-16.03	-
4	3.664	0.34	39.00	-	39.34	-	56.00	46.00	-16.66	-
5	4.535	0.38	37.70	-	38.08	-	56.00	46.00	-17.92	-
6	11.922	0.53	39.47	-	40.00	-	60.00	50.00	-20.00	-
7	13.375	0.57	40.24	-	40.81	-	60.00	50.00	-19.19	-

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.



5 IMMUNITY TEST

5.1 GENERAL DESCRIPTION

Product Standard	**EN 301 489-1 V1.5.1 (2004-11), EN 301 489-17 V1.2.1(2002-08)**	
Basic Standard, Specification, and Performance Criterion required	EN 61000-4-2	Electrostatic Discharge – ESD: 8kV air discharge, 4kV Contact discharge, Performance Criterion B
	EN 61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test – RS: 80 ~ 1000 MHz, 1400 ~ 2000 MHz, 3V/m, 80% AM (1kHz), Performance Criterion A

5.2 GENERAL PERFORMANCE CRITERIA DESCRIPTION

The Requirement of Performance Criteria		
1	Performance criteria for continuous phenomena applied to transmitters (CT)	Criterion A of the applicable class shall apply
2	Performance criteria for transient phenomena applied to transmitters (TT)	Criterion B of the applicable class shall apply
3	Performance criteria for continuous phenomena applied to receivers (CR)	Criterion A of the applicable class shall apply
4	Performance criteria for transient phenomena applied to receivers (TR)	Criterion B of the applicable class shall apply

The phenomena allowed during and after test in each criterion are clearly stated in the following table.

Performance criteria		
Criteria	**During test**	**After test**
A	Shall operate as intended. May show degradation of performance (see note1). Shall be no loss of function. Shall be no unintentional transmissions.	Shall operate as intended. Shall be no degradation of performance (see note 2). Shall be no loss of function. Shall be no loss of stored data or user programmable functions.
B	May show loss of function (one or more). May show degradation of performance (see note 1). No unintentional transmissions.	Functions shall be self-recoverable. Shall operate as intended after recovering. Shall be no degradation of performance (see note 2). Shall be no loss of stored data or user programmable functions.
C	May be loss of function (one or more).	Functions shall be recoverable by the operator. Shall operate as intended after recovering. Shall be no degradation of performance (see note 2).

NOTE 1: Degradation of performance during the test is understood as a degradation to a level not below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance.

If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.

NOTE 2: No degradation of performance after the test is understood as no degradation below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance. After the test no change of actual operating data or user retrievable data is allowed.

If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect form the apparatus if used as intended.

5.3 EUT OPERATING CONDITION

Same as 4.1.6

5.4 ELECTROSTATIC DISCHARGE IMMUNITY TEST (ESD)

5.4.1 TEST SPECIFICATION

Basic Standard:	EN 61000-4-2
Discharge Impedance:	330 ohm / 150 pF
Discharge Voltage:	Air Discharge : 2; 4; 8 kV (Direct)
	Contact Discharge : 2; 4 kV (Direct/Indirect)
Polarity:	Positive & Negative
Number of Discharge:	Minimum 20 times at each test point
Discharge Mode:	Single Discharge
Discharge Period:	1 second minimum

5.4.2 TEST INSTRUMENT

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Thermo ESD Simulator	MZ-15/EC	0310225	Sep. 29, 2006
ELECTROSTATIC DISCHARGE	ESD 30C	1003-12	Jul. 10, 2006
NOISEKEN ELECTRONIC DISCHARGE SIMULATOR	ESS-2000	ESS0382041	Jan. 10, 2007

NOTE: 1. The test was performed in Hwa Ya ESD Room No. 2.

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

5.4.3 TEST PROCEDURE

a. Electrostatic discharges were applied only to those points and surfaces of the EUT that are accessible to users during normal operation.

b. The test was performed with at least ten single discharges on the pre-selected points in the most sensitive polarity.

c. The time interval between two successive single discharges was at least 1 second.

d. The ESD generator was held perpendicularly to the surface to which the discharge was applied and the return cable was at least 0.2 meters from the EUT.

e. Contact discharges were applied to the non-insulating coating, with the pointed tip of the generator penetrating the coating and contacting the conducting substrate.

f. Air discharges were applied with the round discharge tip of the discharge electrode approaching the EUT as fast as possible (without causing mechanical damage) to touch the EUT. After each discharge, the ESD generator was removed from the EUT and re-triggered for a new single discharge. The test was repeated until all discharges were complete.

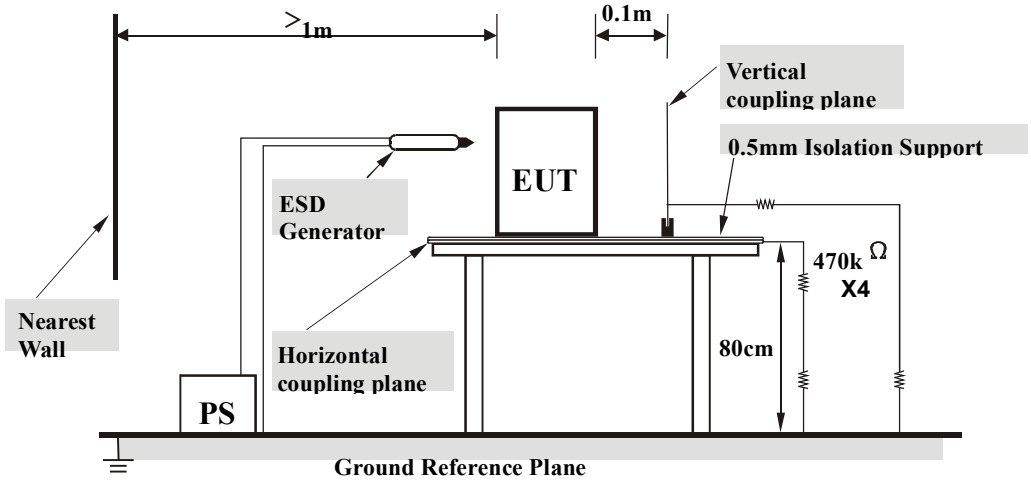
g. At least ten single discharges (in the most sensitive polarity) were applied to the **H**orizontal **C**oupling **P**lane at points on each side of the EUT. The ESD generator was positioned vertically at a distance of 0.1 meters from the EUT with the discharge electrode touching the **HCP.**

h. At least ten single discharges (in the most sensitive polarity) were applied to the center of one vertical edge of the **V**ertical **C**oupling **P**lane in sufficiently different positions that the four faces of the EUT were completely illuminated. The **VCP** (dimensions 0.5m x 0.5m) was placed vertically to and 0.1 meters from the EUT.

5.4.4 DEVIATION FROM TEST STANDARD

No deviation.

5.4.5 TEST SETUP



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

NOTE:

TABLE-TOP EQUIPMENT
The configuration consisted of a wooden table 0.8 meters high standing on the **G**round **R**eference **P**lane. The **GRP** consisted of a sheet of aluminum at least 0.25mm thick, and 2.5 meters square connected to the protective grounding system. A **H**orizontal **C**oupling **P**lane (1.6m x 0.8m) was placed on the table and attached to the **GRP** by means of a cable with 940kΩ total impedance. The equipment under test, was installed in a representative system as described in section 7 of EN 61000-4-2 and its cables were placed on the **HCP** and isolated by an insulating support of 0.5mm thickness. A distance of 1-meter minimum was provided between the EUT and the walls of the laboratory and any other metallic structure.

5.4.6 TEST RESULTS

ENVIRONMENTAL CONDITIONS	22 deg.C, 43% RH, 994 hPa	INPUT POWER (SYSTEM)	230Vac, 50 Hz
TEST MODE	A	TESTED BY	Kent Chen

TEST RESULTS OF DIRECT APPLICATION					
Discharge Level (kV)	Polarity	Test Point	Contact Discharge	Air Discharge	Test Result
2 ; 4 ; 8	+/-	1	NA	NOTE	PASS

Description of test point: Please refers to following pages for representative mark only.

TEST RESULTS OF INDIRECT APPLICATION					
Discharge Level (kV)	Polarity	Test Point	Horizontal Coupling Plane	Vertical Coupling Plane	Test Result
2; 4	+/-	4 sides	NOTE	NOTE	PASS

Description of test point:

1. Front side 2. Rear side 3. Right side 4. Left side

NOTE: There was no change compared with initial operation during and after the test. No unintentional response was found during the test.


1

ENVIRONMENTAL CONDITIONS	22 deg.C, 43% RH, 994 hPa	**INPUT POWER (SYSTEM)**	230Vac, 50 Hz
TEST MODE	B	**TESTED BY**	Kent Chen

TEST RESULTS OF INDIRECT APPLICATION					
Discharge Level (kV)	**Polarity**	**Test Point**	**Horizontal Coupling Plane**	**Vertical Coupling Plane**	**Test Result**
2; 4	+/-	4 sides	NOTE	NOTE	PASS

Description of test point:

1. Front side 2. Rear side 3. Right side 4. Left side

NOTE: There was no change compared with initial operation during and after the test. No unintentional response was found during the test.

5.5 RADIATED, RADIO-FREQUENCY, ELECTROMAGNETIC FIELD IMMUNITY TEST (RS)

5.5.1 TEST SPECIFICATION

Basic Standard:	EN 61000-4-3
Frequency Range:	80 MHz ~ 1000 MHz
	1400 MHz ~ 2000 MHz
Field Strength:	3 V/m
Modulation:	1 kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of preceding frequency value
Polarity of Antenna:	Horizontal and Vertical
Test Distance:	3 m
Antenna Height:	1.5 m
Dwell Time:	at least 3 seconds

5.5.2 TEST INSTRUMENT

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Boonton RF Power Meter	4232A-01-02	107402	Nov. 20, 2006
R&S Signal Generator	SML03	101499	Nov. 20, 2006
AR ELECTRIC FIELD SENSOR	FP 6001	307198	Mar. 19, 2007
Software	ADT_RS_V450	NA	NA

NOTE: 1. The test was performed in Hwa Ya RS Room.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

5.5.3 TEST PROCEDURE

The test procedure was in accordance with EN 61000-4-3

a. The testing was performed in a fully-anechoic chamber. The transmit antenna was located at a distance of 3 meters from the EUT.

b. The frequency range is swept from 80 MHz to 1000 MHz, 1400 MHz to 2000 MHz with the signal 80% amplitude modulated with a 1kHz sinewave. The rate of sweep did not exceed 1.5×10^{-3} decade/s. Where the frequency range is swept incrementally, the step size was 1 % of preceding frequency value.

c. The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.

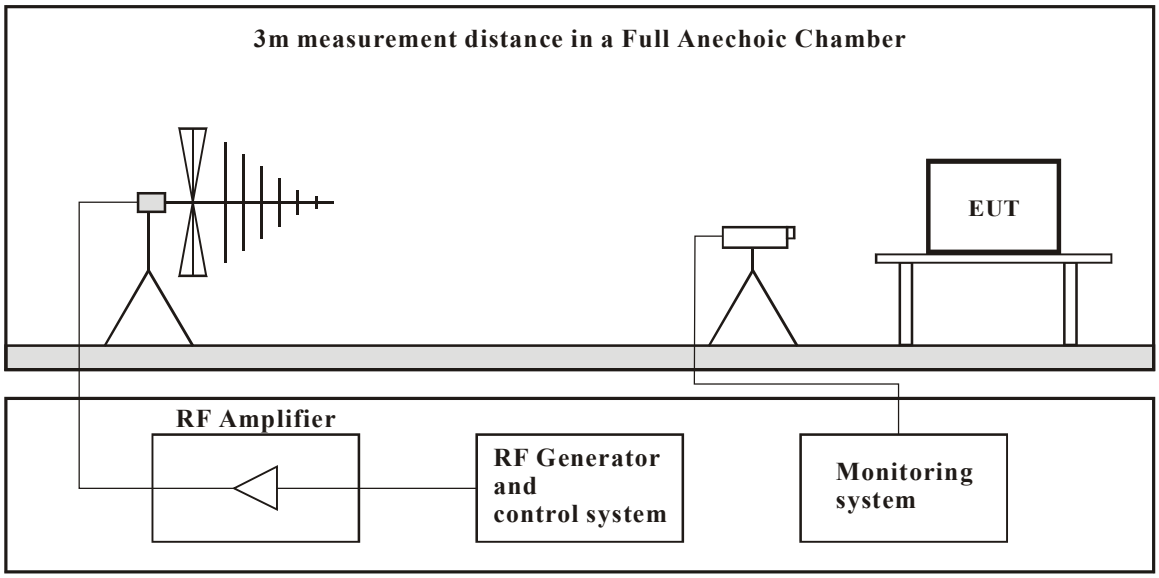
d. The field strength level was 3V/m.

e. The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.

5.5.4 DEVIATION FROM TEST STANDARD

No deviation.

5.5.5 TEST SETUP



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

NOTE:

TABLETOP EQUIPMENT
The EUT installed in a representative system as described in section 7 of EN 61000-4-3 was placed on a non-conductive table 0.8 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

5.5.6 TEST RESULTS

ENVIRONMENTAL CONDITIONS	25 deg. C, 52% RH, 994 hPa	INPUT POWER (SYSTEM)	230Vac, 50 Hz
TEST MODE	A	TESTED BY	Kent Chen

Frequency (MHz)	Polarity	Azimuth	Field Strength (V/m)	Observation	Test Result
80 ~ 1000	V&H	0	3	NOTE	PASS
80 ~ 1000	V&H	90	3	NOTE	PASS
80 ~ 1000	V&H	180	3	NOTE	PASS
80 ~ 1000	V&H	270	3	NOTE	PASS
1400 ~ 2000	V&H	0	3	NOTE	PASS
1400 ~ 2000	V&H	90	3	NOTE	PASS
1400 ~ 2000	V&H	180	3	NOTE	PASS
1400 ~ 2000	V&H	270	3	NOTE	PASS

NOTE: There was no change compared with the initial operation during the test. No unintentional response was found during the test.

ENVIRONMENTAL CONDITIONS	25 deg. C, 52% RH, 994 hPa	**INPUT POWER (SYSTEM)**	230Vac, 50 Hz
TEST MODE	B	**TESTED BY**	Kent Chen

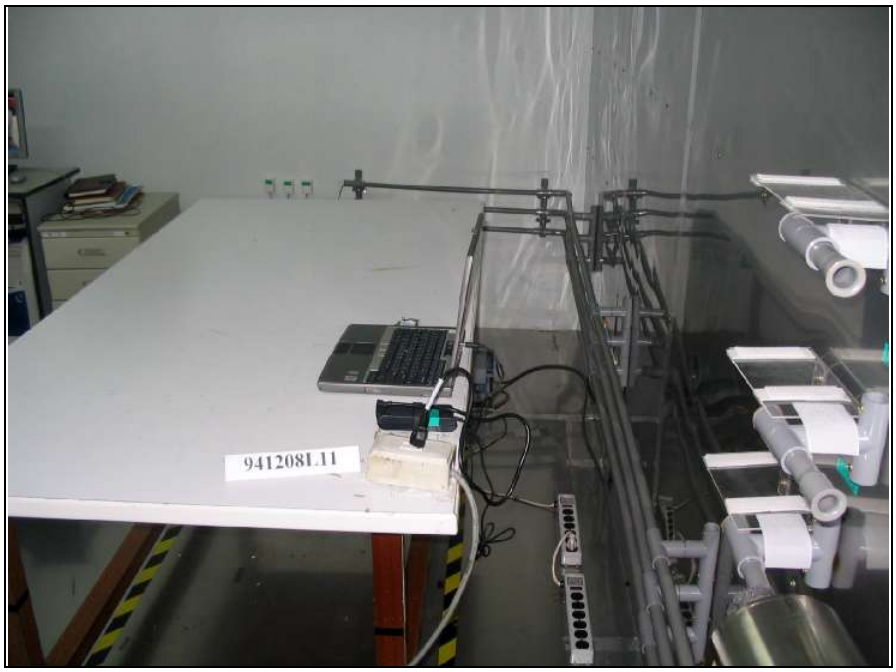
Frequency (MHz)	Polarity	Azimuth	Field Strength (V/m)	Observation	Test Result
80 ~ 1000	V&H	0	3	NOTE	PASS
80 ~ 1000	V&H	90	3	NOTE	PASS
80 ~ 1000	V&H	180	3	NOTE	PASS
80 ~ 1000	V&H	270	3	NOTE	PASS
1400 ~ 2000	V&H	0	3	NOTE	PASS
1400 ~ 2000	V&H	90	3	NOTE	PASS
1400 ~ 2000	V&H	180	3	NOTE	PASS
1400 ~ 2000	V&H	270	3	NOTE	PASS

NOTE: There was no change compared with the initial operation during the test. No unintentional response was found during the test.

6 PHOTOGRAPHS OF THE TEST CONFIGURATION

Conducted Emission Test
Test Mode A

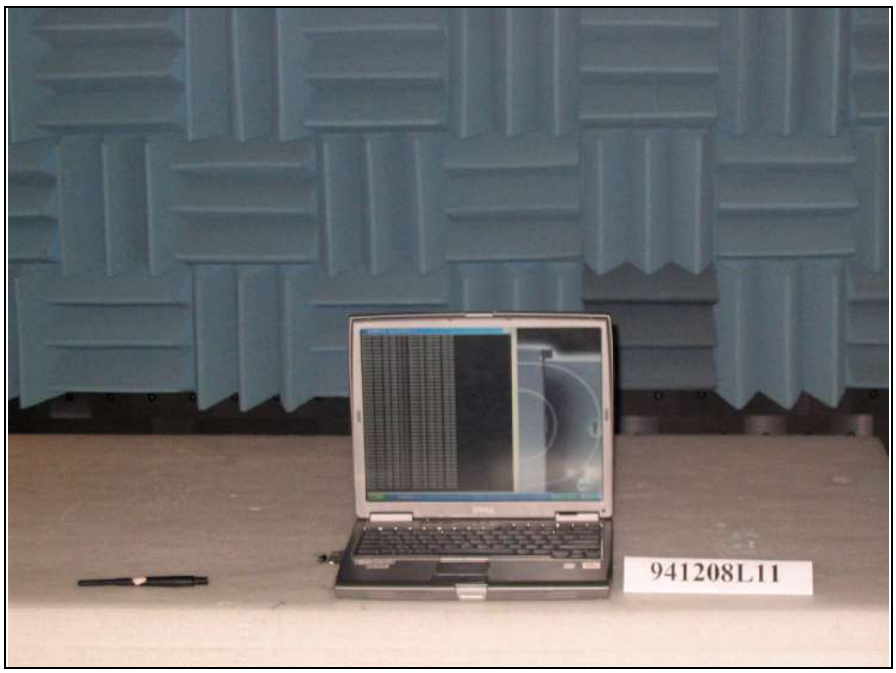
Test Mode B



ESD Test
Test Mode A

Test Mode B

RS Test
Test Mode A



Test Mode B

7 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.	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. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab
Tel: 886-2-26052180
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Fax: 886-3-3185050

Linko RF Lab
Tel: 886-3-3270910
Fax: 886-3-3270892

Web Site: www.adt.com.tw

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