

FCC TEST REPORT

REPORT NO.: F89122905C

MODEL NO.: 9Glr, 9Klr, 9Alr, 9Glrs

PART NO.: S991V-

RECEIVED: Sept. 19, 2001

TESTED: Sept. 27, 2001

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

FCC ID: ARSCM990L



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CERTIFICATION

PRODUCT: 19" COLOR MONITOR

BRAND NAME: AOC

MODEL NO.: 9Glr, 9Klr, 9Alr, 9Glrs

PART NO.: S991V-

TEST ITEM: ENGINEERING SAMPLE

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

STANDARDS: FCC Part 15, Subpart B, Class B

CISPR 22: 1997, Class B

ANSI C63.4-1992

We, Advance Data Technology Corporation, hereby certify that one sample (model: 9Glr) of the designation has been tested in our facility on Sept. 27, 2001. 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.

TESTED BY: Martin Lee., (Martin Lee)

CHECKED BY: Martin Lee), DATE: 10.2.2001

(Yemrny Soong)

APPROVED BY: Mile Su, Manager), DATE: 10.2.2001.

FCC ID: ARSCM990L



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
Subpart B, Class B			is -15.20 dB at 0.189 MHz
CISPR 22: 1997,			Meets Class B Limit
Class B	Radiated Test	PASS	Minimum passing margin
0.000 5			is -2.3 dB at 81.07 MHz

NOTE: For conducted emission test, the test limit used is according to FCC Part 15.107. In this part, conducted emission test for telecom port is not mentioned and therefore this item is not tested.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	19" COLOR MONITOR		
MODEL NO.	9Glr, 9Klr, 9Alr, 9Glrs		
PART NO.	S991V-		
	Switching		
POWER SUPPLY	Input rating: 100-240Vac, 2.5A, 50/60Hz		
POWER SUPPLI	Power Cord:		
	Non-shielded AC, 3 pin (1.2m)		
DATA CABLE Shielded (1.8m) with a ferrite core			

NOTE: This report is prepared for FCC Class II Permissive Change. The original report was issued on Jan. 31, 2001 and granted on April 05, 2001. The main change is on its video board.

The EUT is a 19" COLOR MONITOR with resolution up to 1600x1200.

The EUT has four model names, which are identical to each other except for their marketing areas. For the final test, model: 9Glr was selected as the representative model for the test and its data is recorded in this report.

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:

- ◆ 1600x1200 mode (75Hz/94kHz),
- 1280x1024 mode (85Hz/91kHz),
- ♦ 640x480 mode (60Hz/31.5kHz)

The worst emission levels were found when the EUT was tested under 1600x1200 mode (75Hz/94kHz) resolution. Therefore, only the test data of EUT tested under this mode is 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
4	Personal	COMPAQ	EXM/P733/15C/9	704EFD47000E	FCC DoC Approved
	Computer	COMPAQ	/64V TAI	7045FR4Z0005	PCC DOC Approved
2	PRINTER	HP	2225C+	2949S63865	DSI6XU2225
3	MODEM	ACEEX	1414	980020505	IFAXDM1414
4	PS/2	EODWADD.	EDA 4040A	EDI/D0440407	E47DA 404C
4	KEYBOARD	FORWARD	FDA-104GA	FDKB8110127	F4ZDA-104G
5	PS/2 MOUSE	LOGITECH	M-S43	LZE00703197	DZL211106
6	VGA CARD	ELSA	ERAZOR III LT	0111011947	FCC DoC Approved

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.2m braid shielded wire, terminated with DB25 and Centronics connector via metallic
2	frame, w/o core.
2	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame,
3	w/o core.
4	1.5 m foil shielded wire, terminated with PS/2 connector via metallic frame, w/o core.
5	1.8 m foil shielded wire, terminated with PS/2 connector via drain wire, w/o core.
6	NA

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



4 EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A	(dBuV)	Class B (dBuV)		
FREQUENCT (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 Receiver	ESCS30	847793/022	Feb. 25, 2002
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH2-Z5	828075/003	July 19, 2002
ROHDE & SCHWARZ 200-A Four-line V-Network	ENV4200	830326/018	Oct. 25, 2002
* ROHDE & SCHWARZ 4-wire ISN	ENY41	838119/028	Dec. 2, 2002
* ROHDE & SCHWARZ 2-wire ISN	ENY22	837497/018	Dec. 2, 2002
EMCO-L.I.S.N. (for peripheral)	3825/2	90031627	July 19, 2002
Software	Cond-V2J	NA	NA
RF cable (JYEBAO)	RG-58A/U	Cable-C05.01	July 19, 2002
LYNICS Terminator (For EMCO LISN)	0900510	E1-01-305	Feb. 20, 2002
LYNICS Terminator (For EMCO LISN)	0900510	E1-01-306	Feb. 20, 2002
Shielded Room	Site 5	ADT-C05	NA
VCCI Site Registration No.	Site 5	C-1093	NA

NOTE: 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.

- 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
- 3. "*": These equipment are used for conducted telecom port test only (if tested).



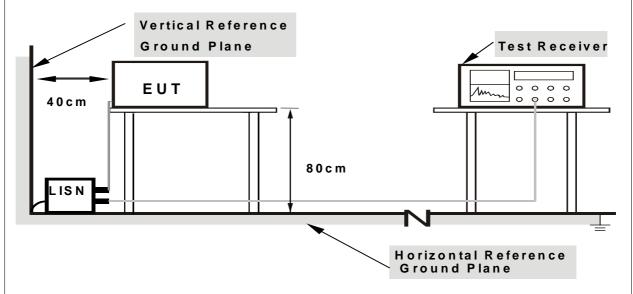
4.1.3 TEST PROCEDURE

- 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 10dB 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

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 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 them on paper.
- g. Steps c-g were repeated.



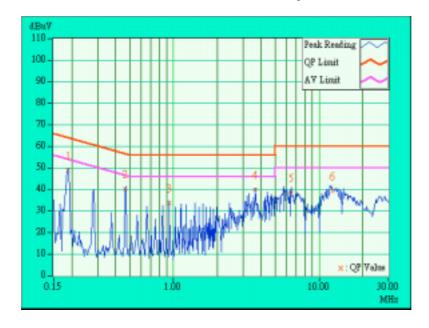
4.1.7 TEST RESULTS

EUT	19" COLOR MONITOR	MODEL NO.	9Glr
MODE	1600x1200 (75Hz/94kHz)	6dB BANDWIDTH	10 kHz
INPUT POWER	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL	28 deg. C, 66 % RH,	TESTED BY: Martin Lee	
CONDITIONS	1005 hPa		

No	Freq.	Corr.	Readin	Reading Value		Emission Level		Limit		gin
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	0.189	0.10	48.78	1	48.88	1	64.08	54.08	-15.20	•
2	0.466	0.11	40.40	1	40.51	1	56.58	46.58	-16.07	-
3	0.939	0.19	33.82	1	34.01	1	56.00	46.00	-21.99	•
4	3.656	0.37	39.89	1	40.26	1	56.00	46.00	-15.74	-
5	6.469	0.48	38.40	-	38.88	-	60.00	50.00	-21.12	-
6	12.281	0.65	39.09	1	39.74	1	60.00	50.00	-20.26	-

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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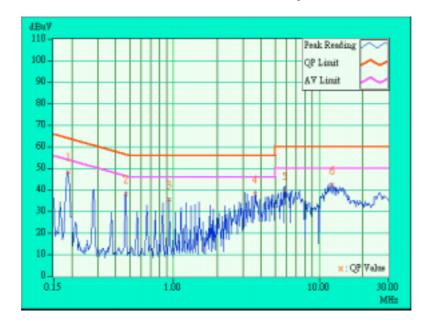


EUT	19" COLOR MONITOR	MODEL NO.	9GIr	
MODE	1600x1200 (75Hz/94kHz)	6dB BANDWIDTH	10 kHz	
INPUT POWER	120Vac, 60 Hz	PHASE	Neutral (N)	
ENVIRONMENTAL	28 deg. C, 66 % RH,	TESTED BY: Martin Lee		
CONDITIONS	1005 hPa	IESIED DI. Warun Lee		

Na	Freq.	Corr.	Reading Value		Emission Level		l Limit		nit	Mar	gin
No		racioi	[dB	(uV)]	[dB ((uV)]	[dB	(uV)]	(dl	3)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.189	0.10	48.41	1	48.51	1	64.08	54.08	-15.57	-	
2	0.470	0.11	38.12	1	38.23	1	56.51	46.51	-18.28	-	
3	0.939	0.19	35.44	1	35.63	1	56.00	46.00	-20.37	-	
4	3.656	0.28	38.21	1	38.49	1	56.00	46.00	-17.51	-	
5	5.813	0.33	39.63	-	39.96	-	60.00	50.00	-20.04	-	
6	12.375	0.45	42.11	1	42.56	1	60.00	50.00	-17.44	-	

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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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)
PREQUENCT (WINZ)	dBuV/m	dBuV/m
30 – 230	40	30
230 - 1000	47	37

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.



4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
HP Spectrum Analyzer	8590L	3544A01042	April 16, 2002
HP Preamplifier	8447D	2944A08313	April 3, 2002
* HP Preamplifier	8449B	3008A01201	Dec. 06, 2002
* HP Preamplifier	8449B	3008A01292	Aug. 21, 2002
* ROHDE & SCHWARZ TEST RECEIVER	ESI7	838496/016	Feb. 17, 2002
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 23, 2002
* ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Jan. 25, 2002
* CHASE BILOG Antenna	CBL6111A	1647	June 27, 2002
* SCHWARZBECK Horn Antenna	BBHA9120- D1	D130	July 6, 2002
* EMCO Horn Antenna	3115	9312-4192	April 15, 2002
* EMCO Turn Table	1016	1722	NA
* EMCO Tower	1051	1825	NA
* Software	AS61D4	NA	NA
* ANRITSU RF Switches	MP59B	M28342	June 27, 2002
* TIMES RF cable	LMR-600	CABLE-ST4- 01	June 27, 2002
Open Field Test Site	Site 4	ADT-R04	June 8, 2002
VCCI Site Registration No.	Site 4	R-1038	NA

NOTE: 1.The measurement uncertainty is less than +/- 3.0dB, which is calculated as per the NAMAS document NIS81.

- 2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.
- 3. "*" = These equipment are used for the final measurement.
- 4. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz.

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 10 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.

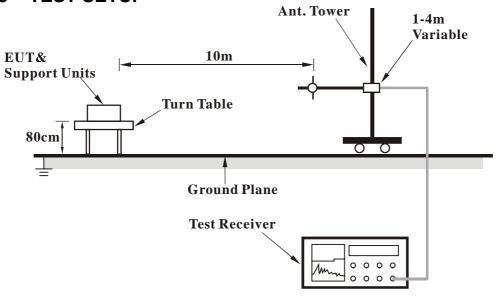


- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the ratable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be retested one by one using the quasi- peak method or average method as specified and then reported In Data sheet peak mode and QP mode.
- g. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the interference antenna and the detect function was set to Peak or Average.

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.



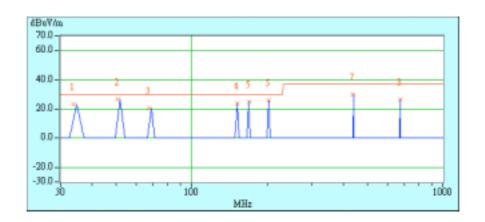
4.2.7 TEST RESULTS

EUT	19" COLOR MONITOR	MODEL NO.	9Glr	
MODE	1600x1200 (75Hz/94kHz)	FREQUENCY	20 2000 MILE	
WIODL		RANGE	30-2000 MHz	
		DETECTOR	Quasi-Peak, 120kHz	
INPUT POWER	120Vac, 60 Hz	FUNCTION &		
		BANDWIDTH		
ENVIRONMENTAL	28 deg. C, 66 % RH,	TESTED BY: Martin Lee		
CONDITIONS	1005 hPa			

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M										
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Antenna	Cable	Pre-Amp.	Correction
No.	(MHz)	Level	(dBuV/m)	_	Height	Angle	Value	Factor	Factor	Gain	Factor
	(IVIITZ)	(dBuV/m)	(ubuv/III)	(dB)	(m)	(Degree)	(dBuV)	(dB/m)	(dB)	(dB)	(dB/m)
1	33.71	23.1 QP	30.00	-6.90	3.05H	238	8.50	14.04	0.56	0.00	-14.60
2	50.63	26.4 QP	30.00	-3.60	3.84H	89	16.54	9.11	0.75	0.00	-9.87
3	67.60	20.8 QP	30.00	-9.20	4.00H	108	15.22	4.82	0.76	0.00	-5.58
4	151.91	23.8 QP	30.00	-6.20	4.00H	111	11.92	10.71	1.17	0.00	-11.88
5	168.87	25.0 QP	30.00	-5.00	4.00H	289	14.14	9.55	1.30	0.00	-10.87
6	202.54	26.1 QP	30.00	-3.90	4.00H	283	15.51	9.17	1.43	0.00	-10.60
7	438.74	30.0 QP	37.00	-7.00	1.61H	198	10.96	16.79	2.25	0.00	-19.04
8	675.19	26.5 QP	37.00	-10.50	1.16H	240	3.15	20.64	2.71	0.00	-23.35

REMARKS:

- 1. Emission level(dBuV/m)=Raw Value(dBuV) Correction Factor(dB)
- 2. Correction Factor(dB/m) = Pre-Amplifier Gain (dB) Antenna Factor (dB/m) Cable Factor (dB)
- 3. Pre-Amplifier Gain (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
- 4. The other emission levels were very low against the limit.
- 5. Margin value = Emission level Limit value.



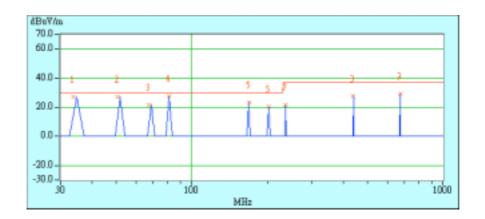


EUT	19" COLOR MONITOR	MODEL NO.	9Glr	
MODE	1600x1200 (75Hz/94kHz)	FREQUENCY	30-2000 MHz	
MODE	1000x1200 (13112/34K112)	RANGE		
		DETECTOR		
INPUT POWER	120Vac, 60 Hz	FUNCTION &	Quasi-Peak, 120kHz	
		BANDWIDTH		
ENVIRONMENTAL	28 deg. C, 66 % RH,	TESTED BY: Martin Lee		
CONDITIONS	1005 hPa			

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 10 M										
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Antenna	Cable	Pre-Amp.	Correction
No.	(MHz)	Level	(dBuV/m)	(dB)	Height	Angle	Value	Factor	Factor	Gain	Factor
	(1011 12)	(dBuV/m)	(ubuv/III)	(ub)	(m)	(Degree)	(dBuV)	(dB/m)	(dB)	(dB)	(dB/m)
1	33.68	27.4 QP	30.00	-2.60	1.56V	306	12.80	14.04	0.56	0.00	-14.60
2	50.63	27.2 QP	30.00	-2.80	1.00V	329	17.34	9.11	0.75	0.00	-9.87
3	67.64	21.9 QP	30.00	-8.10	1.00V	347	16.32	4.82	0.76	0.00	-5.59
4	81.07	27.7 QP	30.00	-2.30	1.00V	360	19.45	7.39	0.86	0.00	-8.26
5	168.87	23.4 QP	30.00	-6.60	1.00V	209	12.54	9.55	1.30	0.00	-10.86
6	202.56	20.7 QP	30.00	-9.30	1.00V	204	10.11	9.17	1.43	0.00	-10.59
7	236.21	21.4 QP	37.00	-15.60	1.00V	211	8.45	11.43	1.51	0.00	-12.95
8	438.79	27.6 QP	37.00	-9.40	1.00V	176	8.56	16.79	2.25	0.00	-19.05
9	675.20	29.4 QP	37.00	-7.60	2.73V	258	6.05	20.64	2.71	0.00	-23.36

REMARKS:

- 1. Emission level(dBuV/m)=Raw Value(dBuV) Correction Factor(dB)
- 2. Correction Factor(dB/m) = Pre-Amplifier Gain (dB) Antenna Factor (dB/m) Cable Factor (dB)
- 3. Pre-Amplifier Gain (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
- 4. The other emission levels were very low against the limit.
- 5. Margin value = Emission level Limit value.





5 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST







RADIATED EMISSION TEST





FCC ID: ARSCM990L



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 Germany TUV Rheinland

Japan VCCI New Zealand MoC

Norway NEMKO, DNV

Canada INDUSTRY CANADA

R.O.C. CNLA, BSMI

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 Lin Kou EMC Lab:
 Hsin Chu EMC Lab:

 Tel: 886-2-26052180
 Tel: 886-35-935343

 Fax: 886-2-26052943
 Fax: 886-35-935342

Lin Kou Safety Lab: Lin Kou RF & Telecom Lab.

Tel: 886-2-26093195 Tel: 886-3-3270910 Fax: 886-2-26093184 Fax: 886-3-3270892

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