

Hong Kong Standards and Testing Centre

No.: HM152812

Applicant: UBUY Industrial Corporation

1F, No. 17, Lane 442, Chungcheng Road, Yunghe Shih, Taipei Hsien, Taiwan

Description of Samples: Model name: FM Stereo Transmitter

Model no.: FM700 Brand name: N/A

FCC ID: SSX-FM700

Date Samples Received: 2004-11-04

Date Tested: 2004-11-22

Investigation Requested: FCC Part 15 Subpart C

Conclusions: The submitted product COMPLIED with the

requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on

Section 2.2 in this Test Report.

Remarks: For additional models details, see page 5.

K C Lee, EMC for Chief Executive

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1.0 General Details

1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd. EMC Laboratory 10 Dai Wang Street, Taipo Industrial Estate New Territories, Hong Kong

Telephone: 852 2666 1888 Fax: 852 2664 4353

1.2 Applicant Details Applicant

UBUY Industrial Corporation 1F, No. 17, Lane 442, Chungcheng Road, Yunghe Shih, Taipei Hsien, Taiwan

HKSTC Code Number for Applicant

GLT001

Manufacturer

- Sunwind Electronic Limited.
 Jiumen Zhai, No. 2 Area, Humen Town, Dongguan, Guangdong, China
- 2. Jin Cheng Electronics Manufactory
 Dongguan Shi Dong Cheng Qu Sang Yuan Shi Jing Gong Ye Qu



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1.3 Equipment Under Test [EUT] Description of Sample

Model Name: FM Stereo Transmitter

Manufacturer: 1. Sunwind Electronic Limited.

2. Jin Cheng Electronics Manufactory

Brand Name: N/A

Additional Brand Name: Clarion, Directed, Prology, Autosonik, Soundlinx,

Razor, Carmate, Electus, Eurovox, Maplin

Model Number: FM700

Additional Model Number: FM-700, FM-200, WFM700, FM300, RFM200,

AFM2000, FMM1029, QM-3800

Input Voltage: 12Vd.c

1.3.1 Description of EUT Operation

The Equipment Under Test (EUT) is a UBUY Industrial Corporation, FM Stereo Transmitter. The transmitter is a 3 button transmitter. The EUT continues to transmit while button is being pressed. Modulation by IC. and type is frequency modulation.

1.4 Date of Order

2004-11-04

1.5 Submitted Sample(s):

2 Samples per model

1.6 Test Duration

2004-11-22

1.7 Country of Origin

China



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1.8 Additional Information of EUT

	Submitted	Not Available
User Manual		
Part List		
Circuit Diagram		
Printed Circuit Board [PCB] Layout		
Block diagram		
FCC ID Label		

香港新界大埔工業村大宏街 10 號



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2.0 Technical Details

2.1 Investigations Requested

Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 and ANSI C63.4: 2003 for FCC Certification.

2.2 Test Standards and Results Summary Tables

EMISSION									
	Results Summary								
Test Condition	Test Requirement	Test Method	Class /	Te	est Resul	t			
			Severity	Pass	Failed	N/A			
Field Strength of Fundamental Emissions & Spurious Emissions	FCC 47CFR 15.239	ANSI C63.4:2003	N/A	\boxtimes					
Radiated Emissions, 30MHz to 1GHz	FCC 47CFR 15.209	ANSI C63.4:2003	Class B	\boxtimes) 10			
Conducted Emissions on AC, 0.15MHz to 30MHz	FCC 47CFR 15.207	ANSI C63.4:2003	Class B						

Note: N/A - Not Applicable



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3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions (30 - 1000MHz)

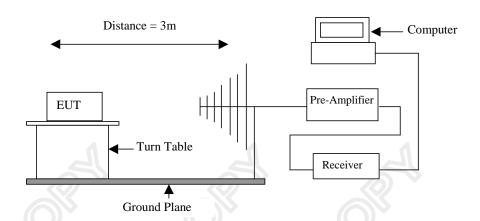
Test Requirement: FCC 47CFR 15.239
Test Method: ANSI C63.4:2003
Test Date: 2004-11-22
Mode of Operation: On mode

Test Method:

The sample was placed 0.8m above the ground plane on the OATS *. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

*: OATS [Open Area Test Site] located at HKSTC with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 90657 or 607756.

Test Setup:





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Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.239]:

Frequency Range of	Peak Limits	Average Limits
Fundamental [MHz]	[<i>μ</i> V/m]	[<i>µ</i> V/m]
88-108	2.500	250

Results: Channel 1

Field Strength of Fundamental Emissions Peak Value							
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field	
	Level @3m	Factor	Strength	Strength		Polarity	
MHz	dBµV/m	dBµV/m	dBµV/m	μ V/m	μ V/m		
88.30	30.3	9.5	39.8	97.7	2,500	Horizontal	

Field Strength of Fundamental Emissions Average Value						
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field
	Level @3m	Factor	Strength	Strength		Polarity
MHz	dBµV/m	dBµV/m	dBµV/m	μV/m	μV/m	
88.30	30.2	9.5	39.7	96.6	250	Horizontal

Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz ±4.1dB

According to FCC 47CFR15.35, the limit on the radio frequency emissions as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

For effective averaging, the bandwidth of the video filter must be smaller than the resolution bandwidth. The higher the ratio of resolution bandwidth to video bandwidth, the greater the averaging will be. Below setting for HP8572A EMI Receiver.

Resolution Bandwidth : 3MHz Video Bandwidth 1Hz



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Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

Frequency Range [MHz]	Limits [μ V/m]
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasipeak detector and above 1000MHz are based on measurements employing an average detector.

Results: Channel 1

	Radiated Emissions Quasi-Peak								
Frequency	Mea	asured	Correction		Field		Field	Limit @3m	E-Field
	Leve	el @3m	Factor	S	trength	S	trength		Polarity
MHz	dB	μ V/m	$dB\muV/m$	dE	$3\mu extsf{V/m}$		μ V/m	μ V/m	
176.60	<	1.0	11.2	/	12.2	٧	4.1	150	Vertical
264.90	<	1.0	9.8	٧	10.8	٧	3.5	150	Vertical
353.20	<	1.0	11.5	٧	12.5	٧	4.2	150	Vertical
441.50	<	1.0	15.9	٧	16.9	٧	7.0	200	Vertical
529.80	<	1.0	17.4	٧	18.4	٧	8.3	200	Vertical
618.10	<	1.0	17.2	٧	18.2	٧	8.1	200	Vertical
706.40	<	1.0	18.8	٧	19.8	٧	9.8	200	Vertical
794.70	<	1.0	19.7	٧	20.7	٧	10.8	200	Vertical
883.00	<	1.0	20.6	<	21.6	٧	12.0	200	Vertical

Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz ±4.1dB



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Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.239]:

Frequency Range of Fundamental	Peak Limits	Average Limits
[MHz]	[<i>μ</i> V/m]	[μ V/m]
88-108	2,500	250

Results: Channel 2

Field Strength of Fundamental Emissions							
	Peak Value						
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field	
	Level @3m	Factor	Strength	Strength		Polarity	
MHz	dBµV/m	dBµV/m	dBµV/m	μ V/m	μ V/m		
88.90	30.2	9.4	39.6	95.5	2,500	Horizontal	

Field Strength of Fundamental Emissions Average Value						
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field
	Level @3m	Factor	Strength	Strength		Polarity
MHz	dBµV/m	dBµV/m	dBµV/m	μV/m	μV/m	
88.90	30.1	9.4	39.5	94.4	250	Horizontal

Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz ±4.1dB

According to FCC 47CFR15.35, the limit on the radio frequency emissions as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

For effective averaging, the bandwidth of the video filter must be smaller than the resolution bandwidth. The higher the ratio of resolution bandwidth to video bandwidth, the greater the averaging will be. Below setting for HP8572A EMI Receiver.

Resolution Bandwidth : 3MHz Video Bandwidth 1Hz



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Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

Frequency Range [MHz]	Limits [μ V/m]
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasipeak detector and above 1000MHz are based on measurements employing an average detector.

Results: Channel 2

	Radiated Emissions Quasi-Peak									
Frequency	Mea	sured	Correction		Field		Field	Limit @3m	E-Field	
	Leve	l @3m	Factor	S	trength	S	trength		Polarity	
MHz	dB,	μV/m	$dB\muV/m$	dE	3μ V/m		μ V/m	μ V/m		
177.80	<	1.0	11.2	V	12.2	٧	4.1	150	Vertical	
266.70	<	1.0	9.8	٧	10.8	٧	3.5	150	Vertical	
355.60	<	1.0	11.5	٧	12.5	٧	4.2	150	Vertical	
444.50	'	1.0	15.9	٧	16.9	٧	7.0	200	Vertical	
533.40	<	1.0	17.4	٧	18.4	٧	8.3	200	Vertical	
622.30	<	1.0	17.2	٧	18.2	٧	8.1	200	Vertical	
711.20	<	1.0	18.8	٧	19.8	٧	9.8	200	Vertical	
800.10	<	1.0	19.7	٧	20.7	٧	10.8	200	Vertical	
889.00	<	1.0	20.6	<	21.6	<	12.0	200	Vertical	

Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz ±4.1dB



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Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.239]:

Frequency Range of Fundamental	Peak Limits	Average Limits
[MHz]	[<i>μ</i> V/m]	[μ V/m]
88-108	2,500	250

Results: Channel 3

	Field Strength of Fundamental Emissions								
Peak Value									
Frequency	Measured	Measured Correction Field Field Limit @3m E-Field							
	Level @3m		Polarity						
MHz	dBµV/m	dBµV/m	dBµV/m	μ V/m	μ V/m				
107.30	21.5	10.0	31.5	37.6	2,500	Horizontal			

Field Strength of Fundamental Emissions Average Value									
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field			
	Level @3m	Factor	Strength	Strength		Polarity			
MHz	dBµV/m	dBµV/m	dBµV/m	μV/m	μV/m				
107.30	21.4	10.0	31.4	37.2	250	Horizontal			

Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz ±4.1dB

According to FCC 47CFR15.35, the limit on the radio frequency emissions as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

For effective averaging, the bandwidth of the video filter must be smaller than the resolution bandwidth. The higher the ratio of resolution bandwidth to video bandwidth, the greater the averaging will be. Below setting for HP8572A EMI Receiver.

Resolution Bandwidth : 3MHz Video Bandwidth 1Hz



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Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

Frequency Range [MHz]	Limits [μ V/m]
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasipeak detector and above 1000MHz are based on measurements employing an average detector.

Results: Channel 3

	Radiated Emissions Quasi-Peak									
Frequency		easured rel @3m	Correction Factor	Field Strength			Field trength	Limit @3m	E-Field Polarity	
MHz	dB	$3\mu extsf{V/m}$	$dB\muV/m$	$dB \mu V/m$			μ V/m	μ V/m		
214.60	<	1.0	11.2	<	12.2	<	4.1	150	Vertical	
321.90	<	1.0	9.8	<	10.8	<	3.5	150	Vertical	
429.20	<	1.0	11.5	<	12.5	<	4.2	150	Vertical	
536.50	<	1.0	15.9	<	16.9	<	7.0	200	Vertical	
643.80	<	1.0	17.4	<	18.4	<	8.3	200	Vertical	
751.10	<	1.0	17.2	<	18.2	<	8.1	200	Vertical	
858.40	<	1.0	18.8	<	19.8	<	9.8	200	Vertical	
965.70	<	1.0	19.7	<	20.7	<	10.8	200	Vertical	
1073.00	<	1.0	20.6	<	21.6	<	12.0	200	Vertical	

Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz ±4.1dB



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Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.239]:

Frequency Range of Fundamental	Peak Limits	Average Limits
[MHz]	[<i>μ</i> V/m]	[μ V/m]
88-108	2,500	250

Results: Channel 4

ľ	Field Strength of Fundamental Emissions									
	Peak Value									
Ī	Frequency	Measured	Measured Correction Field Field Limit @3m E-Field							
		Level @3m Factor Strength Strength F								
	MHz	dBµV/m	dBµV/m	dBµV/m	μ V/m	μ V/m				
Ī	107.90	20.9	9.9	30.8	34.7	2,500	Horizontal			

Field Strength of Fundamental Emissions Average Value									
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field			
	Level @3m Factor St		Strength	Strength		Polarity			
MHz	dBµV/m	dBµV/m	dBµV/m	μV/m	μV/m				
107.90	20.8	9.9	30.7	34.3	250	Horizontal			

Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz ±4.1dB

According to FCC 47CFR15.35, the limit on the radio frequency emissions as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

For effective averaging, the bandwidth of the video filter must be smaller than the resolution bandwidth. The higher the ratio of resolution bandwidth to video bandwidth, the greater the averaging will be. Below setting for HP8572A EMI Receiver.

Resolution Bandwidth : 3MHz Video Bandwidth 1Hz



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Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

Frequency Range [MHz]	Limits [μ V/m]
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasipeak detector and above 1000MHz are based on measurements employing an average detector.

Results: Channel 4

	Radiated Emissions Quasi-Peak									
Frequency	Ме	asured	Correction		Field		Field	Limit @3m	E-Field	
	Lev	el @3m	Factor	S	trength	S	trength		Polarity	
MHz	dB	μ V/m	$dB\muV/m$	dE	$3\mu extsf{V/m}$		μ V/m	μ V/m		
215.80	<	1.0	11.2	\	12.2	٧	4.1	150	Vertical	
323.70	<	1.0	9.8	٧	10.8	٧	3.5	150	Vertical	
431.60	<	1.0	11.5	٧	12.5	٧	4.2	150	Vertical	
539.50	<	1.0	15.9	٧	16.9	٧	7.0	200	Vertical	
647.40	<	1.0	17.4	٧	18.4	٧	8.3	200	Vertical	
755.30	<	1.0	17.2	٧	18.2	٧	8.1	200	Vertical	
863.20	<	1.0	18.8	٧	19.8	٧	9.8	200	Vertical	
971.10	<	1.0	19.7	٧	20.7	٧	10.8	200	Vertical	
1079.00	<	1.0	20.6	<	21.6	٧	12.0	200	Vertical	

Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz ±4.1dB



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3.1.2 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement: FCC 47CFR 15.107
Test Method: ANSI C63.4:2003

Test Date: N/A
Mode of Operation: N/A

Results: N/A

The EUT is operated by a single source of internal battery power [located in the battery compartment], therefore power line conducted emission was deemed unnecessary.

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3.2 20B Bandwidth of Fundamental Emission

Test Requirement: FCC 47 CFR 15.227

Test Method: ANSI C63.4:2003 (Section 13.1.7)

Test Date: 2004-11-22 Mode of Operation: On mode

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Test Setup:

As Test Setup of clause 3.1.1 in this test report.



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Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range	20dB Bandwidth	FCC Limits
[MHz]	[kHz]	[kHz]
88.3	61.9	200

Result: Channel 1

The following figure is the measured bandwidth of Fundamental Emission.

20dB Bandwidth of Fundamental Emission HARKER & ACTV DET: PEAK OP AVG HEAS DET: PEAK OP AVG HEAS DET: PEAK OP AVG HKR& 61.9 kHz -.07 dB LOS REF 61.0 dBpV 10 dB/ eATH 0 dB CENTER 88.3008 HHz 11 BH 10 kHz AVG BH 10 kHz SHP 30.0 msec



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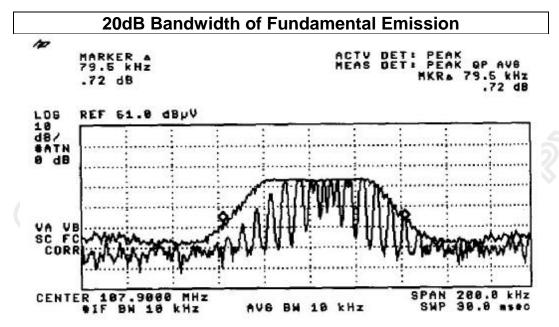
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Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range	20dB Bandwidth	FCC Limits
[MHz]	[kHz]	[kHz]
107.9	79.5	200

Result: Channel 4

The following figure is the measured bandwidth of Fundamental Emission.





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Appendix A

List of Measurement Equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EM007	SPECTRUM ANALYZER	HEWLETT PACKARD	HP85660B	3144A21192	15/06/04
EM008	SPECTRUM ANALYZER DISPLAY	HEWLETT PACKARD	HP85662A	3144A20514	15/06/04
EM009	QUASI PEAK ADAPTOR	HEWLETT PACKARD	HP85650A	3303A01702	15/06/04
EM010	RF PRESELECTOR	HEWLETT PACKARD	HP85685A	3221A01410	15/06/04
EM011	ATTENNUATOR/SWITCH	HEWLETT PACKARD	HP11713A	2508A10595	15/06/04
EM012	PRE-AMPLIFIER	HEWLETT PACKARD	HP8449B	3008A00262	15/06/04
EM013	CONTROLLER (COMPUTER), COLOR MONITOR, KEYBOARD & MOUSE FLOPPY DRIVE	HEWLETT PACKARD HEWLETT PACKARD HEWLETT PACKARD	HP9000 HP A1097C HP9133L	6226A60314 3151J39517 2623A02468	15/06/04
EM020	HORN ANTENNA	EMCO	3115	4032	30/07/03
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	30/07/03
EM072	SIGNAL GENERATOR	HEWLETT PACKARD	8640B	1948A11892	N/A
EM083	HKSTC OPEN AREA TEST SITE	HKSTC	N/A	N/A	08/02/03
EM131	PORTABLE SPECTRUM ANALYSER	HEWLETT PACKARD	8595EM	3710A00155	13/01/04
EM145	EMI TEST RECEIVER	R&S	ESCS 30	830245/021	04/10/04
EM219	BICONILOG ANTENNA	EMCO	3142C	00029071	28/10/03
EM195	ANTENNA POSITIONING MAST	EMCO	2075	2368	N/A
EM196	MULTI-DEVICE CONTROLLER	EMCO	2090	1662	N/A

Conducted Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EM078	VARIAC	SHANGHAI VOLTAGE	TDGC-3/0.5	N/A	CM
EM081	SMALL SCREENED ROOM	MIKO INST HK	N/A	N/A	17/10/03
EM119	LISN	R&S	ESH3-Z5	0831.5518.52	01/10/02
EM127	ISOLATION TRANSFORMER 220 TO 300	WING SUN	N/A	N/A	СМ
EM142	PULES LIMITER	R&S	ESH3Z2	357.8810.52	07/07/03
EM181	EMI TEST RECEIVER	R&S	ESIB7	100072	06/01/04
EM154	SHIELDING ROOM	SIEMENA MATSUSHITA COMPONENTS	N/A	803-740-057- 99A	17/10/03
EM197	LISN	EMCO	4825/2	1193	08/04/03

Remarks:

CM Corrective Maintenance N/A Not Applicable or Not Available

TBD To Be Determined



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Appendix B

Photographs of EUT

Front View of the product



Rear View of the product



Inner Circuit Top View



Inner Circuit Bottom View

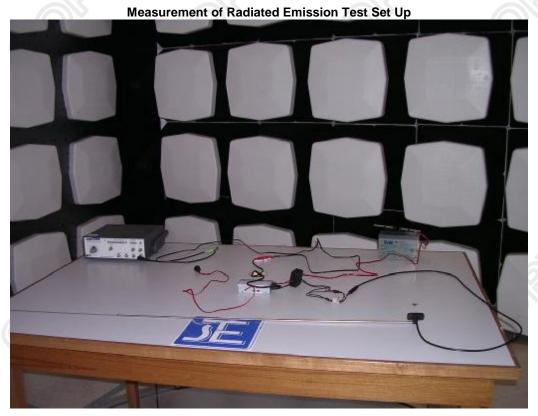




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Photographs of EUT



***** End of Test Report *****