

Hong Kong Standards and Testing Centre

No.: HM153892

Applicant: WIDE ASIA INDUSTRIAL LIMITED.

Block B, 8/F., Jing Ho Industrial Building, 78-84 Wang Lung Street, Tsuen Wan, N.T.,

HONG KONG.

Description of Samples: Model name: Tunestir

Model no.: IPOD-FMTR

Brand name: BTI

FCC ID: S8GAWWINWA2005

Date Samples Received: 2005-04-15

Date Tested: 2005-04-27

Investigation Requested: FCC Part 15 Subpart C

Conclusions: The submitted product <u>COMPLIED</u> 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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香港新界大埔工業村大宏街 10 號



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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

WIDE ASIA INDUSTRIAL LIMITED. Block B, 8/F., Jing Ho Industrial Building, 78-84 Wang Lung Street, Tsuen Wan, N.T., HONG KONG.

HKSTC Code Number for Applicant

GLT001

Manufacturer

WIDE ASIA INDUSTRIAL LIMITED. Block B, 8/F., Jing Ho Industrial Building, 78-84 Wang Lung Street, Tsuen Wan, N.T., HONG KONG.



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1.3 Equipment Under Test [EUT] Description of Sample

Model Name: Tunestir

Manufacturer: WIDE ASIA INDUSTRIAL LIMITED.

Brand Name: BTI Additional Brand Name: iAir

Model Number: IPOD-FMTR Additional Model Number: iAiR01

Input Voltage: The product draws power from the signal port of the

console.

1.3.1 Description of EUT Operation

The Equipment Under Test (EUT) is a WIDE ASIA INDUSTRIAL LIMITED., Tunestir. The transmitter is a 6 button transmitter. The EUT continues to transmit while Button is being pressed. It is voice transmitter, Modulation by IC and type is frequency modulation.

1.4 Date of Order

2005-04-15

1.5 Submitted Sample(s):

1 Sample per model

1.6 Test Duration

2005-04-27

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	\boxtimes	



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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							
Radiated Emissions, 30MHz to 1GHz	FCC 47CFR 15.209	ANSI C63.4:2003	Class B			MП				
Conducted Emissions on AC, 0.15MHz to 30MHz	FCC 47CFR 15.207	ANSI C63.4:2003	Class B			\boxtimes				

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: 2005-04-27

Mode of Operation: Tx mode and connected to i-Pod,

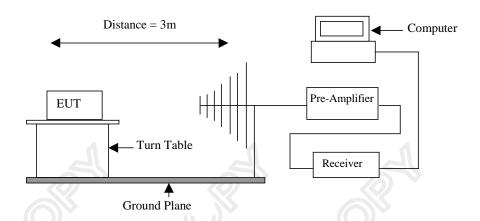
FM mode and connected to i-Pod, Music mode and connected to i-Pod,

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: 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]	[μV/m]	[μV/m]
88-108	2,500	250

Results of Tx mode and connected to i-Pod: PASS

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	dΒμV/m	dBµV/m	μV/m	μV/m	•		
88.50	28.5	9.5	38.0	79.4	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	dΒμV/m	dBμV/m	μV/m	μV/m		
88.50	28.3	9.5	37.8	77.6	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 [μV/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 of Tx mode and connected to i-Pod: PASS

	Radiated Emissions								
				Qı	uasi-Peal	K			
Frequency	Me	asured	Correction		Field		Field	Limit @3m	E-Field
	Lev	el @3m	Factor	s	trength	S	trength		Polarity
MHz	dE	βμV/m	dBμV/m	d	BμV/m		μV/m	μV/m	
177.00	<	1.0	11.2	<	12.2	<	4.1	150	Vertical
265.50	<	1.0	14.0	<	15.0	<	5.6	150	Vertical
354.00	<	1.0	11.5	<	12.5	<	4.2	150	Vertical
442.50	<	1.0	15.9	<	16.9	<	7.0	200	Vertical
531.00	<	1.0	17.4	<	18.4	<	8.3	200	Vertical
619.50	<	1.0	17.2	<	18.2	<	8.1	200	Vertical
708.00	<	1.0	18.8	<	19.8	<	9.8	200	Vertical
796.50	<	1.0	19.7	<	20.7	<	10.8	200	Vertical
885.00	<	1.0	20.6	<	21.6	<	12.0	200	Vertical

Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.



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

Frequency Range of	Peak Limits	Average Limits
Fundamental [MHz]	[μV/m]	[µV/m]
88-108	2,500	250

Results of Tx mode and connected to i-Pod: PASS

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	dΒμV/m	dBµV/m	μV/m	μV/m	•
98.30	26.7	10.3	37.0	70.8	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	
98.30	26.6	10.3	36.9	70.0	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	Limits		
[MHz]	[μV/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 of Tx mode and connected to i-Pod: PASS

	Radiated Emissions									
	Quasi-Peak									
Frequency	Me	asured	Correction		Field		Field	Limit @3m	E-Field	
	Lev	el @3m	Factor	s	trength	S	trength		Polarity	
MHz	dE	βμV/m	dBμV/m	d	BμV/m		μV/m	μV/m		
196.60	<	1.0	11.6	<	12.6	<	4.3	150	Vertical	
294.90	<	1.0	14.3	<	15.3	<	5.8	150	Vertical	
393.20	<	1.0	11.5	<	12.5	<	4.2	150	Vertical	
491.50	<	1.0	15.9	<	16.9	<	7.0	200	Vertical	
589.80	<	1.0	17.4	<	18.4	<	8.3	200	Vertical	
688.10	<	1.0	17.2	<	18.2	<	8.1	200	Vertical	
786.40	<	1.0	18.8	<	19.8	<	9.8	200	Vertical	
884.70	<	1.0	19.7	<	20.7	<	10.8	200	Vertical	
983.00	<	1.0	20.6	<	21.6	<	12.0	200	Vertical	

Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.



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

Frequency Range of Fundamental	Peak Limits	Average Limits
[MHz]	[μV/m]	[µV/m]
88-108	2,500	250

Results of Tx mode and connected to i-Pod: PASS

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	dΒμV/m	dBµV/m	μV/m	μV/m			
107.90	28.6	10.0	38.6	85.1	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			
107.90	28.5	10.0	38.5	84.1	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	Limits
[MHz]	[μV/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 of Tx mode and connected to i-Pod: PASS

	Radiated Emissions									
	Quasi-Peak									
Frequency	Ме	asured	Correction		Field		Field	Limit @3m	E-Field	
	Lev	el @3m	Factor	s	trength	S	trength		Polarity	
MHz	dE	βµV/m	dBμV/m	d	BμV/m		μV/m	μV/m		
215.80	<	1.0	11.8	<	12.8	<	4.4	150	Vertical	
323.70	<	1.0	14.8	<	15.8	<	6.2	150	Vertical	
431.60	<	1.0	11.5	<	12.5	<	4.2	150	Vertical	
539.50	<	1.0	15.9	<	16.9	<	7.0	200	Vertical	
647.40	<	1.0	17.4	<	18.4	<	8.3	200	Vertical	
755.30	<	1.0	17.2	<	18.2	<	8.1	200	Vertical	
863.20	<	1.0	18.8	<	19.8	<	9.8	200	Vertical	
971.10	<	1.0	19.7	<	20.7	<	10.8	200	Vertical	
1079.00	<	1.0	20.6	<	21.6	<	12.0	200	Vertical	

Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.



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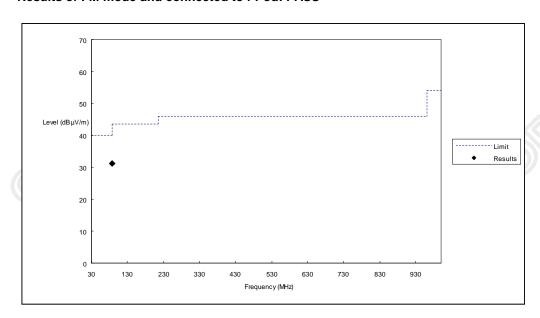
No.: HM153892

Limits for Radiated Emissions [FCC 47 CFR 15.109 Class B]:

Frequency Range [MHz]	Quasi-Peak Limits [μV/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 of FM mode and connected to i-Pod: PASS



Radiated Emissions Quasi-Peak								
Turned	Emission	Measured	Limit	Measured	Limit	E-Field		
Frequency	Frequency	Level @3m	@3m	Level @3m	@3m	Polarity		
MHz	MHz	dBµV/m	dBµV/m	μV/m	μV/m			
88.1	88.1	31.2	43.5	36.3	150	Horizontal		

Remark:



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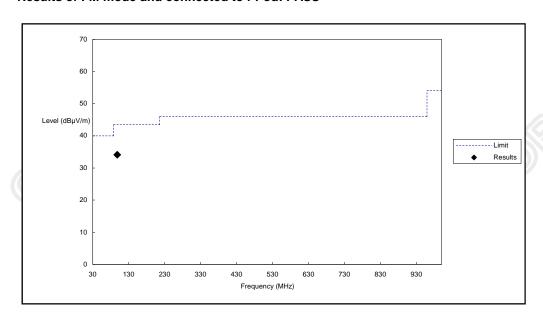
No.: HM153892

Limits for Radiated Emissions [FCC 47 CFR 15.109 Class B]:

Frequency Range [MHz]	Quasi-Peak Limits [μV/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 of FM mode and connected to i-Pod: PASS



Radiated Emissions Quasi-Peak								
Turned	Emission	Measured	Limit	Measured	Limit	E-Field		
Frequency	Frequency	Level @3m	@3m	Level @3m	@3m	Polarity		
MHz	MHz	dBµV/m	dBµV/m	μV/m	μV/m			
98.3	98.3	34.1	43.5	50.7	150	Horizontal		

Remark:



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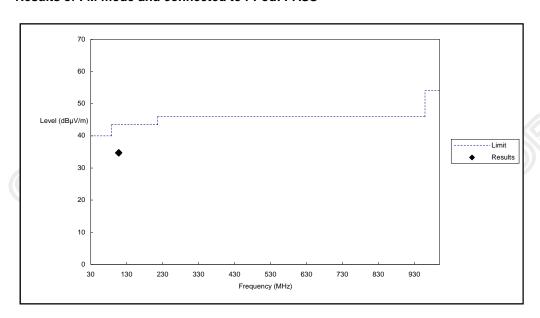
No.: HM153892

Limits for Radiated Emissions [FCC 47 CFR 15.109 Class B]:

Frequency Range [MHz]	Quasi-Peak Limits [μV/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 of FM mode and connected to i-Pod: PASS



Radiated Emissions Quasi-Peak								
Turned Emission Measured Limit Measured Limit E-Field								
Frequency	Frequency	Level @3m	@3m	Level @3m	@3m	Polarity		
MHz	MHz	dBµV/m	dBµV/m	μV/m	μV/m	,		
107.9	107.9	34.7	43.5	54.3	150	Horizontal		

Remark:



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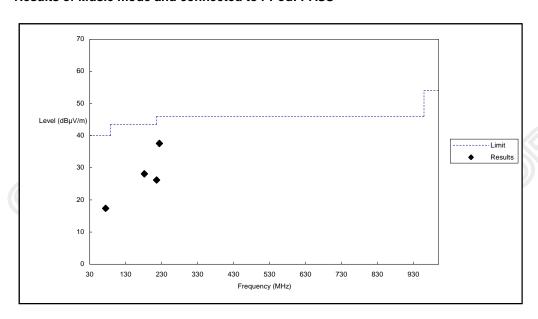
No.: HM153892

Limits for Radiated Emissions [FCC 47 CFR 15.109 Class B]:

Frequency Range [MHz]	Quasi-Peak Limits [μV/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 of Music mode and connected to i-Pod: PASS





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Results of Music mode and connected to i-Pod: PASS

Radiated Emissions Quasi-Peak					
Emission	E-Field	Level	Limit	Level @3m	Limit
Frequency	Polarity	@3m	@3m	@3m	@3m
MHz		dBµV/m	dBµV/m	μV/m	μV/m
74.500	Horizontal	17.4	40.0	7.4	100
182.000	Horizontal	28.1	43.5	25.4	150
216.060	Horizontal	26.2	46.0	20.4	200
224.000	Horizontal	37.6	46.0	75.9	200

Remark:



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3.1.2 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement: FCC 47CFR 15.207
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: 2005-04-27 Mode of Operation: Tx 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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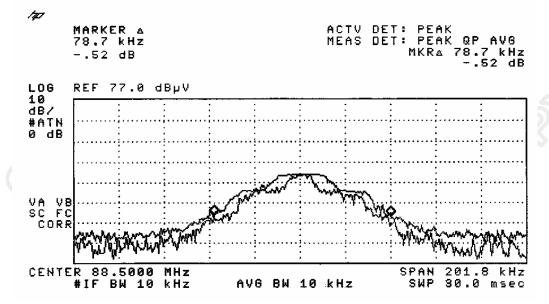
Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range	20dB Bandwidth	FCC Limits
[MHz]	[kHz]	[kHz]
88.5	78.7	200

Results of Tx Mode: PASS

The following figure is the measured bandwidth of Fundamental Emission.

20dB Bandwidth of Fundamental Emission





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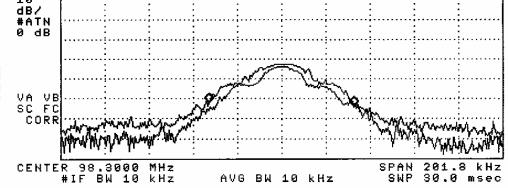
Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range	20dB Bandwidth	FCC Limits
[MHz]	[kHz]	[kHz]
98.3	66.1	200

Results of Tx Mode: PASS

The following figure is the measured bandwidth of Fundamental Emission.

20dB Bandwidth of Fundamental Emission MARKER A ACTV DET: PEAK BEAS DET: PEAK BE





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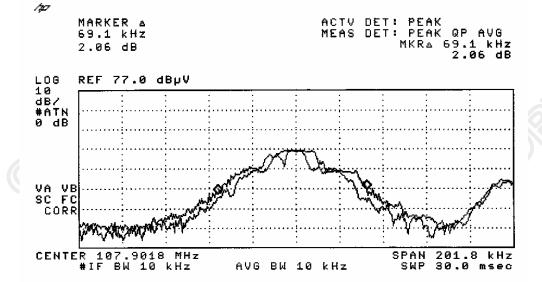
Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range	20dB Bandwidth	FCC Limits
[MHz]	[kHz]	[kHz]
107.9	69.1	200

Results of Tx Mode: PASS

The following figure is the measured bandwidth of Fundamental Emission.

20dB 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

Line Conducted

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	14/10/04
EM127	ISOLATION TRANSFORMER 220 TO 300	WING SUN	N/A	N/A	CM
EM142	PULES LIMITER	R&S	ESH3Z2	357.8810.52	04/08/04
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	05/06/04

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



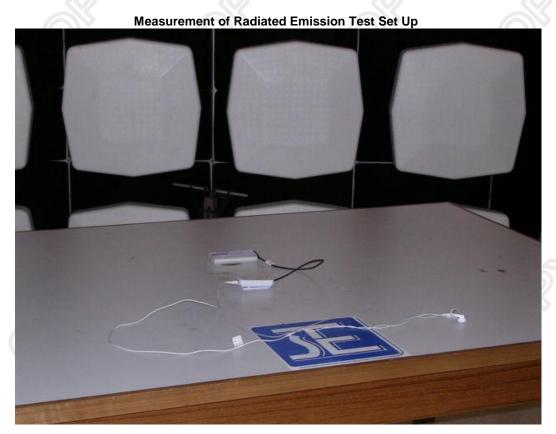


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Photographs of EUT



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