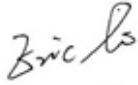



FCC PART 15.239
EMI MEASUREMENT AND TEST REPORT
For
WELLHAND INDUSTRIAL COMPANY
ROOM 22,FLOOR 4,SINO INDUSTRIAL PLAZA,
9 KAI CHENG ROAD,KOWLOON BAY,HONG KONG

FCC ID:
VZGFM-10001

Jan.28,2008

This Report Concerns: Original Report		Equipment Type : FM TRANSMITTER	
Test Engineer:		Eric Li 	
Report No.:		F08012818B	
Receive EUT Date/Test Date:		Jan.21,2008/ Jan.21-28,2008	
Reviewed By:		Christina 	
Prepared By:		 Shenzhen BST Technology Co.,Ltd. 3F,Weames Technology Building, No. 10 Kefa Road,Science Park, Nanshan District,Shenzhen,Guangdong,China Tel: 0755-26747751 ~ 3 Fax: 0755-26747751 ~ 3 ext.826	

Note: The test report is specially limited to the above company and this particular sample only.
It may not be duplicated without prior written consent of Shenzhen BST Technology Co.,Ltd.
This report must not be used by the client to claim product certification,approval,or
endorsement by NVLAP, NIST or any agency of the US Government.

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1. GENERAL INFORMATION

1.1. Report information

1.1.1.This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that BST approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that BST in any way guarantees the later performance of the product/equipment.

1.1.2.The sample/s mentioned in this report is/are supplied by Applicant, BST therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through BST, unless the applicant has authorized BST in writing to do so.

Test Facility -

The test site used to collect the radiated data is located on the address of Shenzhen BST Technology Co.,Ltd. (FCC Registered Test Site Number: 949181) on
3F,Weames Technology Building,No.10 Kefa Road,
Science Park, Nanshan District, Shenzhen, China.

The Test Site is constructed and calibrated to meet the FCC requirements.

1.2. Measurement Uncertainty

Available upon request.

2. PRODUCT DESCRIPTION

2.1. EUT Description

Description : FM TRANSMITTER

Applicant : WELLHAND LNDUSTRIAL COMPANY
ROOM 22,FLOOR 4,SINO INDUSTRIAL PLAZA,
9 KAI CHENG ROAD,KOWLOON BAY,HONG KONG

Model Number : FM-10001,FM-10018, FM-10028,FM-10038,FM-10058

Additional Information

Frequency : 88.1-107.9MHz

Power Supply : DC12V (Powered by Car)

Maximum : N/A

Range

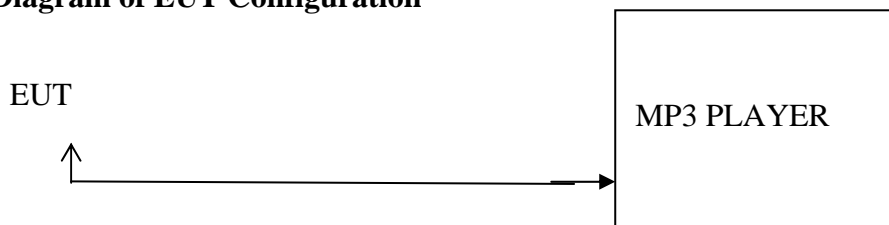
Transmitter : -

Antenna

Current : N/A

Consumption

2.2. Block Diagram of EUT Configuration



2.3. Support Equipment List

- | | | |
|----|-----------------|---------|
| 1. | Ipod mp3 player | FCC DOC |
|----|-----------------|---------|

2.4. Test Conditions

Temperature: 23~25

Relative Humidity: 55~63 %

3. FCC ID LABEL

FCC ID:VZGFM-10001

Label Location on EUT

EUT Bottom View/ FCC ID Label Location



4. TEST RESULTS SUMMARY

FCC 15 Subpart C,Paragraph 15.239

Test Standards	Test Items	Test Results
FCC Part 15 Subpart C, Paragraph 15.239	Radiated Emission (30MHz to 1000MHz)	Pass
FCC Part 15 Subpart C, Paragraph 15.239	Occupied Bandwidth	Pass

Remark: “N/A” means “Not applicable.”

Modifications

No modification was made.

5. TEST EQUIPMENT USED

Equipment/Facilities	Manufacturer	Model #	Serial no.	Date of Cal.	Cal. Interval
Cable	Resenberger	N/A	NO.1	Mar 10 , 2007	1 Year
Cable	SCHWARZBECK	N/A	NO.2	Mar 10 , 2007	1 Year
Cable	SCHWARZBECK	N/A	NO.3	Mar 10 , 2007	1 Year
LISN	Rohde & Schwarz	ESH3-Z5	100305	Mar 10 , 2007	1 Year
50 Coaxial Switch	ANRITSU CORP	MP59B	6200283933	Mar 10, 2007	1 Year
EMI Test Receiver	Rohde & Schwarz	ESP13	100180	Oct.18,2007	1 Year
Spectrum Analyzer	Rohde & Schwarz	FSP40	100273	Sep.10,2007	1 Year
3m Semi-Anechoic Chamber	Albatross Projects	9mx6mx6m	N/A	Feb.20,2007	1 Year
Signal Generator	FLUKE	PM5418 + Y/C	LO747012	Feb.20,2007	1 Year
Signal Generator	FLUKE	PM5418TX	LO738007	Feb.20,2007	1 Year
Loop Antenna	SCHWARZBECK	FMZB1516	113	Jan.30,2007	1 Year
Trilog-Super Broadband Antenna	SCHWARZBECK	VULB9161	9161-4079	Sep.22,2007	1 Year
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-564	Sep.22,2007	1 Year
Ultra Broadband Antenna	Rohde & Schwarz	HL-562	100110	June.15,2007	1 Year
AMN	Rohde & Schwarz	ESH3-Z5	100196	Oct.11,2007	1 Year
AMN	Rohde & Schwarz	ESH3-Z5	100197	Oct.11,2007	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	N/A	N/A	N/A
Power Meter	Rohde & Schwarz	NRVD	100041	Feb.20,2007	1 Year
EMI Test Receiver	Rohde & Schwarz	ESCS30	100003	Feb.20,2007	1 Year
Coaxial Cable with N-connectors	SCHWARZBECK	AK9515H	95549	Sep.22,2007	1 Year
Radio Communication Test Set	Rohde & Schwarz	CMS 54	846621/024	Feb.20,2007	1 Year
Modulation Analyzer	Hewlett-Packard	8901B	2303A00362	Feb.20,2007	1 Year
Absorbing clamp	Rohde & Schwarz	MDS-21	N/A	Oct.29,2007	1 Year

6. RADIATED EMISSIONS

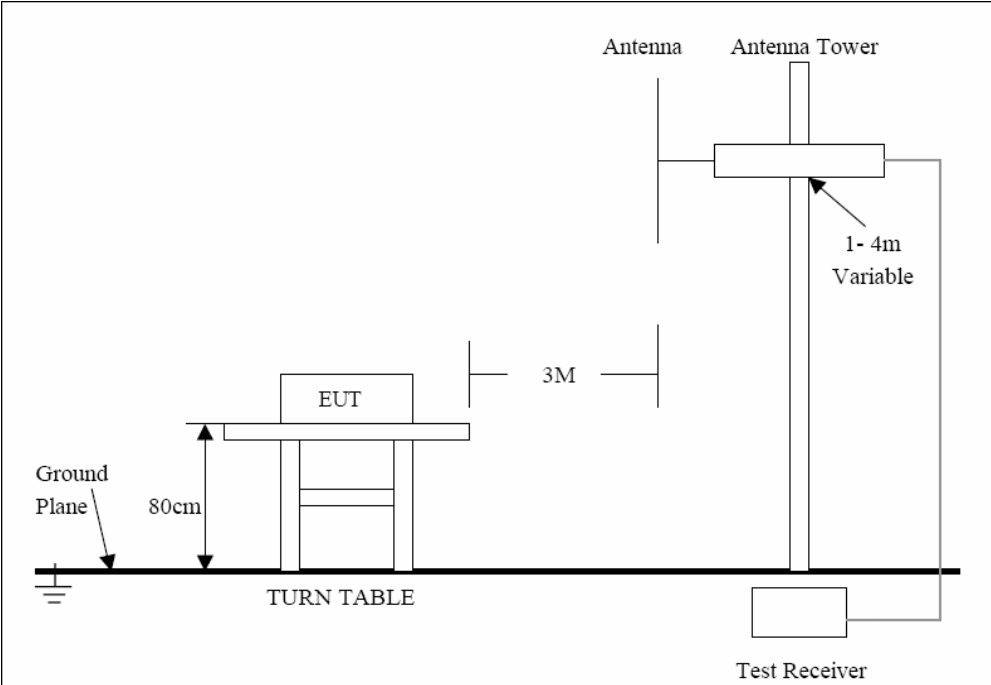
6.1. Test Equipment

Please refer to section 4 this report.

6.2. Test Procedure

The out of band emission tests were performed in the 3-meter chamber test site, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC Part Subpart C limits.

6.3. Radiated Test Setup



For the accrual test configuration,pleas refer to the related items-photos of Testing.

6.4. Radiated Emission Limit

CARRIER FREQUENCY WILL NOT EXCEEDS 48.0 dBuV/m AT 3M. OUT-OF-BAND EMISSIONS SHALL NOT EXCEED:

Frequency (MHZ)	Distance (m)	Field Strength (dBuV/M)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
ABOVE 960	3	54.0

6.5. Radiated Emission Test Result

FREQ. (MHZ)	POL V/H	LEVEL (DB μ V)		LIMIT (DB μ V)		MARGIN (DB)	
		AV	PK	AV	PK	AV	PK
88.1	H	45.21	48.75	48	68	-2.79	-19.25
88.1	V	46.36	50.87	48	68	-1.64	-17.13
98	H	45.73	47.66	48	68	-2.27	-20.34
98	V	46.83	50.13	48	68	-1.17	-17.87
107.9	H	44.65	48.53	48	68	-3.35	-19.47
107.9	V	46.90	51.08	48	68	-1.1	-16.92

FREQ. (MHZ)	POL V/H	LEVEL (DB μ V)	LIMIT (DB μ V)	MARGIN (DB)
For 88.1MHz				
176.24	H	40.12	43.5	-3.36
264.32	V	40.56	46	-5.44
440.52	H	38.7	46	-7.3
616.68	V	35.47	46	-10.53
704.80	H	33.29	46	-12.71
881.08	V	32.98	46	-13.02
For 98MHz				
196.00	H	40.17	43.5	-3.33
294.00	V	41.28	46	-4.72
490.04	H	37.94	46	-8.06
686.12	V	36.23	46	-9.77
784.04	H	32.34	46	-13.66
882.08	V	31.67	46	-14.33
For 107.9MHz				
215.80	H	39.39	43.5	-4.11
431.60	V	42.67	46	-3.33
539.48	H	38.07	46	-7.93
647.40	V	36.78	46	-9.22
755.28	H	36.01	46	-9.99
863.16	V	35.72	46	-10.28

Note: The frequency will not be recorded if the the level of the spurious emission is very weak(no harmonic or spurious emissions were higher than 20dB below the limits of 47 CFR Part 15.209).

7. OCCUPIED BANDWIDTH

7.1. Test Equipment

Please refer to Section 4 this report.

7.2. Test Procedure

1. The EUT was tested according C63.4-2003. The test was performed with Spectrum Analyzer at FCC Registration laboratory .
2. Based on FCC Part15 C Section 15.239.
Operation within the band 88MHz – 108MHz

7.3. Requirements

Intentional radiators operating under the alternative provisions to the geneql emission limits, as Emissions from the device shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz.

7.4. Test Result

Method of measurement:

1. Set both RBW and VBW of spectrum analyzer to 10 kHz and 100kHz respectively with a convenient frequency span including 200kHz bandwidth of the emission.
2. Mark the bandwidth of 200kHz points and plot the graph on spectrum analyzer.

