

TIMCO ENGINEERING INC.

849 NW State Road 45

Newberry, Florida 32669

<http://www.timcoengr.com>

888.472.2424 F 352.472.2030 email: tei@timcoengr.com

Test Report

Product Name: 49MHz WALKIE TALKIE

FCC ID: 04Y10663

Applicant:

200 TOY (HK) LTD.
RM 1009, 10/F, HOUSTON CENTRE
63 MODY ROAD
KOWLOON Hong Kong
CHINA

Date Receipt: 2/21/2007

Date Tested: 2/23/2007

APPLICANT: 200 TOY (HK) LTD.

FCC ID: 04Y10663

REPORT #: T\TWO04Y\449HT7\449HT7TestReport.doc

COVER SHEET

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TABLE OF CONTENTS LIST

APPLICANT: 200 TOY (HK) LTD.

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TEST REPORT CONTAINING:

PAGE 1.....TEST EQUIPMENT LIST
PAGE 2.....TEST PROCEDURE
PAGE 3.....RADIATION INTERFERENCE TEST DATA
PAGE 4.....OCCUPIED BANDWIDTH
PAGE 5.....OCCUPIED BANDWIDTH PLOT
PAGE 6.....TEST SET UP PHOTO

EXHIBITS INCLUDING:

BLOCK DIAGRAM
SCHEMATIC
INSTRUCTION MANUAL
LABEL SAMPLE
LABEL LOCATION
EXTERNAL PHOTOGRAPHS
INTERNAL PHOTOGRAPHS
CIRCUIT DESCRIPTION
TEST SET UP PHOTOGRAPH

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TABLE OF CONTENTS

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Equipment List

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
3/10-Meter OATS	TEI	N/A	N/A	Listed 3/27/04	3/26/07
3-Meter OATS	TEI	N/A	N/A	Listed 1/11/06	1/10/09
Antenna: Biconnical	Eaton	94455-1	1057	CAL 12/12/05	12/12/07
Antenna: Biconnical	Eaton	94455-1	1096	CAL 10/11/06	10/11/08
Antenna: Biconnical	Electro-Metrics	BIA-25	1171	CAL 4/29/05	4/29/07
Analyzer Blue Tower Quasi-Peak Adapter	HP	85650A	2811A01279	CAL 4/13/05	4/13/07
Analyzer Blue Tower RF Preselector	HP	85685A	2926A00983	CAL 9/5/05	9/5/07
Analyzer Blue Tower Spectrum Analyzer	HP	8568B	2928A04729 2848A18049	CAL 4/13/05	4/13/07
LISN	Electro-Metrics	ANS-25/2	2604	CAL 10/5/06	10/5/08
LISN	Electro-Metrics	EM-7820	2682	CAL 4/28/05	4/28/07
Antenna: Log-Periodic	Eaton	96005	1243	CAL 12/14/05	12/14/07

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TEST PROCEDURE

GENERAL: This report shall NOT be reproduced except in full without the written approval of TIMCO ENGINEERING, INC.

RADIATION INTERFERENCE: The test procedure used was ANSI C63.4-2003 using a spectrum analyzer with a preselector. The bandwidth of the spectrum analyzer was 100 kHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz. The ambient temperature of the DUT was 80°C with a humidity of 76%.

FORMULA OF CONVERSION FACTORS: The field strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the preselector was accounted for in the spectrum analyzer meter reading.

Example:

Freq (MHz)	METER READING	+	ACF	+	CL	=	FS
33	20 dBuV	+	10.36	+	1.02 dB	=	31.38 dBuV/m @ 3m

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The unit under test was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The table used for radiated measurements is capable of continuous rotation.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

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NAME OF TEST: RADIATION INTERFERENCE

RULES PART NO.: 15.235

REQUIREMENTS: CARRIER FREQUENCY WILL NOT EXCEEDS 80 dBuV/m AT 3M.
OUT-OF-BAND EMISSIONS SHALL NOT EXCEED:

30 - 88 MHz	40.0 dBuV/M MEASURED AT 3 METERS
88 - 216 MHz	43.5 dBuV/M
216 - 960 MHz	46.0 dBuV/M
ABOVE 960 MHz	54.0 dBuV/M

TEST DATA:

Emission Frequency MHz	Meter Reading dBuV	Ant. Pol	Coax Loss dB	Correction Factor dB	Field Strength dBuV/m	Margin dB
49.89	51.2	H	0.97	11.53	63.70	16.30
49.89	61.5	V	0.97	10.62	73.09	6.91
99.78	22.5	H	1.40	10.70	34.60	8.90
99.78	24.0	V	1.40	11.30	36.70	6.80
149.67	15.9	V	1.75	17.15	34.80	8.70
149.67	16.7	H	1.75	16.27	34.72	8.78
199.38	16.9	V	2.10	18.10	37.10	6.40
199.56	17.8	H	2.10	17.71	37.61	5.89
249.45	9.4	V	2.35	12.47	24.22	21.78
249.45	14.4	H	2.35	12.38	29.13	16.87
299.34	8.0	H	2.60	14.07	24.67	21.33
299.34	8.3	V	2.60	14.29	25.19	20.81
349.23	7.3	H	2.85	14.88	25.03	20.97
399.12	6.7	V	3.10	15.78	25.58	20.42
449.01	7.4	H	3.30	17.63	28.33	17.67
498.90	6.2	V	3.50	18.13	27.83	18.17

PERFORMED BY: NAM NGUYEN

DATE: 2/23/2007

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APPLICANT: 200 TOY (HK) LTD.
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NAME OF TEST: Occupied Bandwidth
RULES PART NO.: 15.235

REQUIREMENTS: The field strength of any emissions appearing between the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 26 dB below the level of the un-modulated carrier or to the general limits of 15.209, whichever permits the higher emission levels.

THE GRAPH ON THE NEXT PAGE REPRESENTS THE EMISSIONS TAKEN FOR THE DEVICE.

METHOD OF MEASUREMENT: A small sample of the transmitter output was fed into the spectrum analyzer and the attached plot was taken. The vertical scale is set to 10 dB per division.

PERFORMED BY: NAM NGUYEN **DATE:** 2/23/2007

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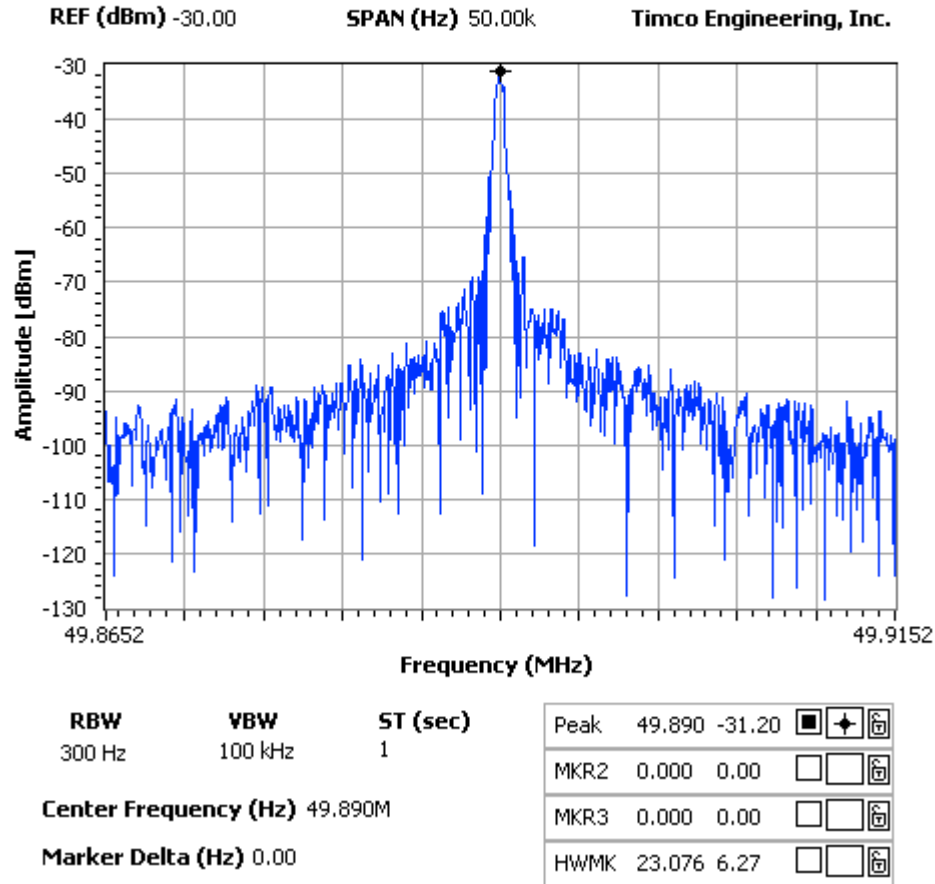
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NOTES:

200 TOY (HK) LTD - 49MHz WALKIE TALKIE
OCCUPIED BANDWIDTH PLOT



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