TABLE OF CONTENTS

APPLICANT: VTECH TELECOMMUNICATIONS LTD.

FCC ID: EW789-5004-00

TEST REPORT CONTAINING:

PAGE	1TEST EQUIPMENT LIST AND TEST PROCEDURE
PAGE	2TEST PROCEDURE CONTD.
PAGE	3-4RADIATION INTERFERENCE TEST DATA
PAGE	5POWERLINE CONDUCTED
PAGE	6OCCUPIED BANDWIDTH

EXHIBIT ATTACHMENTS:

EXHIBIT	1FCC ID LABEL SAMPLE & SKETCH OF LOCATION						
EXHIBIT	2BLOCK DIAGRAM						
EXHIBIT	3ASCHEMATIC - BASE UNI						
EXHIBIT	3BSCHEMATIC - RF BOARD - BASE						
EXHIBIT	S 3CSCHEMATIC - RF BOARD - HANDSET						
EXHIBIT	T 3DSCHEMATIC - KEYBORAD - HANDSET						
EXHIBIT	4AFRONT VIEW EXTERNAL PHOTOGRAPHS						
EXHIBIT	4BREAR VIEW EXTERNAL PHOTOGRAPHS						
EXHIBIT	4C-4DCOMPONENT VIEW INTERNAL PHOTOGRAPH						
EXHIBIT	F 4E-4FCOPPER VIEW INTERNAL PHOTOGRAPH						
EXHIBIT	5A-5RINSTRUCTION MANUAL						
EXHIBIT	6A-6CCIRCUIT DESCRIPTION						
EXHIBIT	7A-7BPOWERLINE CONDUCTED PLOTS						
EXHIBIT	8AOCCUPIED BANDWIDTH PLOT - HIGH FREQUENCY - HD						
EXHIBIT	8BOCCUPIED BANDWIDTH PLOT - 2500 Hz - BASE						
EXHIBIT	8COCCUPIED BANDWIDTH PLOT - LOW FREQUENCY - BASE						
EXHIBIT	8DOCCUPIED BANDWIDTH PLOT - LOUD VOICE						
EXHIBIT	9ABASE RADIATED TEST SET UP PHOTO						
EXHIBIT	9BHANDSET RADIATED TEST SET UP PHOTO						
EXHIBIT	10POWERLINE CONDUCTED TEST SET UP PHOTO						

APPLICANT: VTECH TELECOMMUNICATIONS LTD. FCC ID: EW789-5004-00 REPORT #: T:\CUS\V\VTECH\226AH0\226AH0.RPT PAGE: TABLE OF CONTENTS LIST APPLICANT: VTECH TELECOMMUNICATIONS LTD. FCC ID: EW789-5004-00

TEST EQUIPMENT LIST

1._X_Spectrum Analyzer: HP 8566B-Opt 462, S/N 3138A07786, w/
preselector HP 85685A, S/N 3221A01400, Quasi-Peak Adapter
HP 85650A, S/N 3303A01690 & Preamplifier HP 8449B-OPT H02,
S/N 3008A00372 Cal. 10/17/99

2._X_Biconnical Antenna: Eaton Model 94455-1, S/N 1057

3._X_Log-Periodic Antenna: Electro-Metrics Model EM-6950, S/N 632

4._X_Double-Ridged Horn Antenna: Electro-Metrics Model RGA-180,

- 1-18 GHz, S/N 2319 Cal. 4/27/99
- 5. Horn 40-60GHz: ATM Part #19-443-6R
- 6._X_Line Impedance Stabilization Network: Electro-Metrics Model ANS-25/2, S/N 2604 Cal. 2/9/00
- 7.___Temperature Chamber: Tenney Engineering Model TTRC, S/N 11717-7
- 8.____Frequency Counter: HP Model 5385A, S/N 3242A07460 Cal 10/6/99
- 9. Peak Power Meter: HP Model 8900C, S/N 2131A00545 Cal 7/19/99
- 10._X_Open Area Test Site #1-3meters Cal. 12/22/99
- 11.____Signal Generator: HP 8640B, S/N 2308A21464 Cal. 9/23/99
- 12.____Signal Generator: HP 8614A, S/N 2015A07428 Cal. 5/29/99
- 13. Passive Loop Antenna: EMCO Model 6512, 9KHz to 30MHz, S/N 9706-1211 Cal. 6/23/97
- 14.____Dipole Antenna Kit: Electro-Metrics Model TDA-30/1-4, S/N 153 Cal. 11/24/99
- 15.____AC Voltmeter: HP Model 400FL, S/N 2213A14499 Cal. 9/21/99
- 16. ____Digital Multimeter: Fluke Model 8012A, S/N 4810047 Cal 9/21/99
- 17.____Digital Multimeter: Fluke Model 77, S/N 43850817 Cal 9/21/99
- 18.___Oscilloscope: Tektronix Model 2230, S/N 300572 Cal 9/23/99

TEST PROCEDURE

GENERAL: This report shall NOT be reproduced except in full without the written approval of TIMCO ENGINEERING, INC. The UUT was transmitting a test signal during the testing.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-1992 using a HEWLETT PACKARD spectrum analyzer with a preselector. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100KHz and the video bandwidth was 300KHz up to 1.0GHz and 1.0MHz with a video BW of 3.0MHz above 1.0GHz. The ambient temperature of the UUT was 74.3oF with a humidity of 69%.

APPLICANT: VTECH TELECOMMUNICATIONS LTD. FCC ID: EW789-5004-00

TEST PROCEDURES CONTINUED

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 = FS 33 20 dBuV + 10.36 dB = 30.36 dBuV/m @ 3m

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STAN-DARD C63.4-1992 using a 50uH LISN. Both lines were observed. The bandwidth of the spectrum analyzer was 10kHz with an appropriate sweep speed. The ambient temperature of the UUT was 74.3oF with a humidity of 69%.

ANSI STANDARD C63.4-1992 10.1.7 MEASUREMENT PROCEDURES: The UUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The UUT was placed in the center of the table (1.5m side). 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.

The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSIC63.4-1992 with the EUT 40 cm from the vertical ground wall.

APPLICANT:	VTECH TELECOMMUNICATIONS LTD.
FCC ID:	EW789-5004-00
NAME OF TEST:	RADIATION INTERFERENCE
RULES PART NUMBER:	15.249, 15.209
REQUIREMENTS: FIELD STRENGTH	FIELD STRENGTH S15.209

 of Fundamental:
 of Harmonics
 30 - 88 MHz
 40 dBuV/m @3M

 902-928 MHZ
 88 -216 MHz
 43.5

 2.4-2.4835 GHz
 216 -960 MHz
 46

 94 dBuV/m @3m
 54 dBuV/m @3m
 ABOVE 960 MHz
 54dBuV/m

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 dB BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

TEST RESULTS: This unit DOES meet the FCC requirements.

TEST DATA:										
	METER									
	READING		ANTENNA	PEAK	FCC					
EMISSION	AT 3	COAX	CORRECTION	I FIELD	LIMIT					
FREQUENCY	METERS	LOSS	FACTOR	STRENGTH			ANT.			
MHz	dBuV	dB	FACTOR	dB dBuV/	'm@3m d1	B PO	L.			
BASE										
902.60	48.50	2.90	24.19	75.59	94.00	18.41	V			
1805.20	4.50	1.00	27.22	32.72	54.00	17.04	V			
903.90	50.75	2.90	24.18	77.83	94.00	16.17	V			
1806.47	14.30	1.00	27.23	42.53	54.00	11.47	V			
HANDSET										
926.50	48.60	2.90	24.11	75.61	94.00	18.39	v			
1852.90	11.20	1.01	27.41	39.62	54.00	14.38	Н			
927.80	53.00	2.90	24.12	80.02	94.00	13.34	V			
1855.50	3.30	1.01	27.42	31.73	54.00	22.27	V			

APPLICANT:

VTECH TELECOMMUNICATIONS LTD.

FCC ID:

NAME OF TEST:

RADIATION INTERFERENCE

EW789-5004-00

TEST PROCEDURE: ANSI STANDARD C63.4-1992 using a Hewlett Packard Model 8566B spectrum analyzer, a Hewlett Packard Model 85685A Preselector, a Hewlett Packard Model 85650A Quasi-Peak adapter, and calibrated antenna appropriate for the frequencies measured. The bandwidth of spectrum analyzer was 100 kHz with an appropriate sweep speed. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported. The spectrum was searched to at least the tenth(10) harmonic of the fundamental.

PERFORMED BY:_____DATE: 22 JUNE 2000

APPLICANT: VTECH TELECOMMUNICATIONS LTD. FCC ID: EW789-5004-00 NAME OF TEST: POWER LINE CONDUCTED INTERFERENCE RULES PART NUMBER: 15.107 MINIMUM REQUIREMENTS: FREQUENCY LEVEL _____MHz______UV___ 0.450-30 250 TEST PROCEDURE: ANSI STANDARD C63.4-1992

THE HIGHEST EMISSION READ FOR LINE 1 WAS 75.0 uV @ 570 $\mathrm{kHz}.$

THE HIGHEST EMISSION READ FOR LINE 2 WAS 35.5 uV @ 570 kHz.

THE PLOTS IN EXHIBIT 7A-7B REPRESENT THE EMISSIONS READ FOR POWERLINE CONDUCTED FOR THIS DEVICE.

TEST RESULTS: Both lines were observed. The measurements indicate that the unit DOES appear to meet the FCC requirements for this class of equipment.

PERFORMED BY:_____DATE: 22 JUNE 2000

APPLICANT: VTECH TELECOMMUNICATIONS LTD.

FCC ID: EW789-5004-00

NAME OF TEST: Occupied Bandwidth

RULES PART NO.: 15.249

REQUIREMENTS: The field strength of any emissions appearing outside the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 50 dB below the level of the carrier or to the general limits of 15.249.

THE PLOTS IN EXHIBIT 8A-8D REPRESENTS THE EMISSIONS TAKEN FOR THIS DEVICE.

METHOD OF MEASUREMENT: A small sample of the transmitter output was fed into the spectrum analyzer and the attached plot was printed. The vertical scale is set to -10 dBm per division. The horizontal scale is set to 5 kHz per division.

TEST RESULTS: The unit DOES meet the FCC requirements.

PERFORMED BY:_____ 22 JUNE 2000